



GSA Federal Supply Services

Authorized Federal Supply Schedule Price List

GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY EQUIPMENT, SOFTWARE SERVICES

Contract Number: GS-35F-4461G

Contract Period: January 2, 1997 through January 1, 2017

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Business Size: Large

Mod PO-0215 Effective Date: 1/27/15
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On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order is available through **GSA Advantage!**[®], a menu-driven database system. The Internet address for **GSA Advantage!** is <http://www.gsaadvantage.gov>. GSA Advantage! is a trademark of the General Services Administration in the U.S. and/or other countries.

GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY EQUIPMENT, INFORMATION TECHNOLOGY PROFESSIONAL SERVICES, SOFTWARE AND RELATED TRAINING, AND ELECTRONIC COMMERCE SERVICES

Special Item No. 132-8	Purchase of Equipment
Special Item No. 132-12	Maintenance, Repair Service, and Repair Parts/Spare Parts
Special Item No. 132-32	Term Software Licenses
Special Item No. 132-33	Perpetual Software Licenses
Special Item No. 132-34	Maintenance of Software
Special Item No. 132-50	Training Courses
Special Item No. 132-51	Information Technology Professional Services
Special Item No. 132-52	Electronic Commerce Services
Special Item No. 132-62	Homeland Security Presidential Directive 12 (HSPD-12) Products and Services

Table of Contents

USA Commitment To Promote Small Business Participation Procurement Programs	4
Information For Ordering Offices	5
Blanket Purchase Agreement Federal Supply Schedule	13
Basic Guidelines for Using Contractor Team Arrangements	14
Terms and Conditions Applicable to Purchase of General Purpose Commercial Information Technology Equipment (Special Item Number [SIN] 132-8)	15
Terms and Conditions Applicable to Maintenance and Repair for Government-Owned General Purpose Information Technology Equipment (SIN 132-12)	17
Terms and Conditions Applicable to Term Software License (SIN 132-32), Perpetual Software License (SIN 132-33) and Maintenance as a Service (SIN 132-34)	22
Terms and Conditions Applicable to Purchase of Training Courses for General Purpose Information Technology Equipment and Software (SIN 132-50)	26
Terms and Conditions Applicable to Information Technology (IT) Professional Services (SIN 132-51)	28
-- Leidos IT Professional Services (SIN 132-51); General Summary, Principal Duties and Responsibilities	32
-- Leidos IT Professional Services (SIN 132-51) Price List	82
Terms and Conditions Applicable to Electronic Commerce (EC) Services (SIN 132-52)	86
Terms and Conditions Applicable to Homeland Security Presidential Directive 12 (HSPD-12) Products and Services (SIN 132-62)	89
-- Leidos HSPD-12 Professional Services (SIN 132-62) General Summary, Principal Duties and Responsibilities	95
-- Leidos HSPD-12 Professional Services (SIN 132-62) Price List	121
Products Price List:	
Leidos ISS-2000 & SA BER	125
Leidos Rugged IT Solutions	127
GeoRover	129
TeraText Solutions	135
CyberNEXS	137

SPECIAL NOTICE TO AGENCIES:

USA Commitment to Promote Small Business Participation Procurement Programs

Leidos, Inc. provides commercial products and services to ordering activities. We are committed to promoting participation of small, small disadvantaged, women owned, hub zone and veteran owned small businesses in our contracts. We pledge to provide opportunities to the small business community through reselling opportunities, mentor protégé programs, joint ventures, teaming arrangements, and subcontracting.

Commitment

- To actively seek and partner with small businesses.
- To identify, qualify, mentor and develop small, small disadvantaged and women-owned small businesses by purchasing from these businesses whenever practical.
- To develop and promote company policy initiatives that demonstrates our support for awarding contracts and subcontracts to small business concerns.
- To undertake significant efforts to determine the potential of small, small disadvantaged and women-owned small business to supply products and services to our company.
- To insure procurement opportunities are designed to permit the maximum possible participation of small, small disadvantaged and women-owned small businesses.
- To attend business opportunity workshops, minority business enterprise seminars, trade fairs, procurement conferences, etc., to identify and increase small businesses with whom to partner.
- To publicize in our marketing publications our interest in meeting small businesses that may be interested in subcontracting opportunities.

We signify our commitment to work in partnership with small, small disadvantaged and women-owned small businesses to promote and increase their participation in ordering activity contracts. To accelerate potential opportunities please contact Sandy Reid or email at reidsand@leidos.com

Small Business Participation

SBA strongly supports the participation of small business concerns in the Federal Acquisition Schedules Program. To enhance Small Business Participation SBA policy allows agencies to include in their procurement base and goals, the dollar value of orders expected to be placed against the Federal Acquisition Schedules, and to report accomplishments against these goals.

For orders exceeding the micro purchase threshold, FAR 8.404 requires agencies to consider the catalogs/pricelists of at least three schedule contractors or consider reasonably available information by using the GSA Advantage!TM on-line shopping service (www.fss.gsa.gov). The catalogs/pricelists, GSA Advantage!TM and the Federal Acquisition Schedule Home Page contain information on a broad array of products and services offered by small business concerns. More information is available at Federal Acquisition Schedule.

This information should be used as a tool to assist ordering activities in meeting or exceeding established small business goals. It should also be used as a tool to assist in including small, small disadvantaged business, and women-owned small businesses among those considered when selecting pricelists for a best value determination. For orders exceeding the micro purchase threshold, customers are to give preference to small business concerns when two or more items at the same delivered price will satisfy their requirement.

INFORMATION FOR ORDERING OFFICES

1. **Geographic Scope of Contract:** The geographic scope of this contract is the 48 contiguous states; Washington, DC; Alaska; Hawaii; Puerto Rico; U.S. Territories; and other overseas locations. The Geographic Scope of Contract will be domestic and overseas delivery.

2. **Contractor's Ordering Address:**

Leidos, Inc.
11951 Freedom Drive
Reston, VA 20190
202-386-1703 (Leidos Contracts)
301-768-8999 (Leidos Program Management Office)

Contractor's Payment Address:

Via Electronic Fund Transfer:

Leidos, Inc.
Citibank, N.A.
399 Park Avenue
New York, NY 10043
Account Number 30547584
ABA No. 021000089
SWIFT: CITIUS33

Should EFT not be available, the remittance address is:

Leidos, Inc.
Box 223058
Pittsburgh, PA 15251-2058

Contractors are required to accept credit cards for payments equal to or less than the micro-purchase threshold for oral or written delivery orders.

Credit cards will be acceptable for payment above the micro-purchase threshold. In addition, bank account information for wire transfer payments will be shown on the invoice.

The following telephone number(s) can be used by ordering agencies to obtain technical and/or ordering assistance.

202-386-1703 (Leidos Contracts)
301-768-8999 (Leidos Program Management Office)

The latest electronic version of Leidos's IT GSA Schedule is available in Adobe Acrobat format for downloading at: https://www.gsaadvantage.gov/ref_text/GS35F4461G/GS35F4461G_online.htm

3. **Liability for Injury or Damage**

The Contractor shall not be liable for any injury to ordering activity personnel or damage to ordering activity property arising from the use of equipment maintained by the Contractor, unless such injury or damage is due to the fault or negligence of the Contractor.

4. **Statistical Data for Government Ordering Office Completion of Standard Form 279**

Block 9: G. Order/Modification Under Federal Schedule

Block 16: Contractor Establishment Code (DUNS): 96-748-8987
Block 30: Type of Contractor: C, Large Business
Block 31: Woman-Owned Small Business: No
Block 36: Contractor's Taxpayer Identification Number (TIN): 95-363-0868

4a. CAGE Code:

4b. Leidos has registered with the Central Contractor Registration Database .

5. FOB Destination

6. Delivery Schedule

(a) **TIME OF DELIVERY.** The contractor shall deliver to destination within the number of calendar days after receipt of order (ARO), as set forth below:

SPECIAL ITEM NUMBER	DELIVERY TIME (DAYS ARO)
132-8	30 days, unless otherwise noted in pricelist
132-12	30 days, unless otherwise noted in pricelist
132-32	30 days, unless otherwise noted in pricelist
132-33	30 days, unless otherwise noted in pricelist
132-34	30 days, unless otherwise noted in pricelist
132-50	30 days, unless otherwise noted in pricelist
132-51	As negotiated
132-52	As negotiated
132-62	As negotiated

OVERNIGHT AND 2-DAY DELIVERY TIMES. Standard commercial rates for overnight or two (2) day delivery will be charged.

(b) **URGENT REQUIREMENTS.** When the Federal Acquisition Schedule contract delivery period does not meet the bona fide urgent delivery requirements of an ordering activity, ordering activities are encouraged, if time permits, to contact the Contractor for the purpose of obtaining accelerated delivery. The contractor shall reply to the inquiry within 3 workdays after receipt. (Telephone replies shall be confirmed by the contractor in writing.) If the contractor offers an accelerated delivery time acceptable to the ordering activity, any order(s) placed pursuant to the agreed upon accelerated delivery time frame shall be delivered within this shorter delivery time and in accordance with all other terms and conditions of the contract.

7. Discounts

Prices shown are NET Prices; basic discounts have been deducted.

- (a) Prompt Payment: Net 30
- (b) Quantity: Please refer to each Vendor's product & service offering.
- (c) Dollar Volume: Please refer to each Vendor's product and service offering.
- (d) Government Educational Institutions: Government Educational Institutions are offered the same discounts as all other Government customers, unless otherwise specified in the Vendor's product and service offering

8. Trade Agreements of 1979, as Amended

All items are U.S. made end products, designated country end products, Caribbean Basin country end products, Canadian end products, or Mexican end products as defined in Trade Agreements Act of 1979, as amended.

9. Statement Concerning Availability of Export Packing

Export packing is available at extra cost outside the scope of this contract.

10. Small Requirements

The minimum dollar value of orders to be issued is \$100.

11. Maximum Order (All dollar amounts are exclusive of any discount for prompt payment)

The maximum order value for the following Special Item Numbers (SINs) is as follows:

Special Item 132-8–Purchase of Equipment - \$500,000

Special Item 132-12–Maintenance of Equipment, Repair Service, and Repair Parts/Spare Parts- \$500,000

Special Item 132-32–Purchase of Term Software License- \$500,000

Special Item 132-33–Purchase of Perpetual Software License- \$500,000

Special Item 132-34–Maintenance of Software as a Service- \$500,000

Special Item 132-50–Training Courses Maximum Order is \$25,000

Special Item 132-51–Information Technology Professional Services - \$500,000

Special Item 132-52–Electronic Commerce (EC) Services - \$500,000

Special Item 132-62–Homeland Security Presidential Directive 12 (HSPD-12) -\$1,000,000

12. Ordering Procedures For Federal Supply Schedule Contracts

Ordering activities shall use the ordering procedures of Federal Acquisition Regulation (FAR) 8.405 when placing an order or establishing a BPA for supplies or services. These procedures apply to all schedules.

(a) FAR 8.405-1 Ordering procedures for supplies, and services not requiring a statement of work.

(b) FAR 8.405-2 Ordering procedures for services requiring a statement of work.

13. Federal Information Technology/Telecommunication Standards Requirements

Ordering activities acquiring products from this Schedule must comply with the provisions of the Federal Standards Program, as appropriate (Reference: NIST Federal Standards Index). Inquiries to determine whether or not specific products listed herein comply with Federal Information Processing Standards (FIPS) or Federal Telecommunication Standards (FED-STDS), which are cited by ordering activities, shall be responded to promptly by the Contractor.

13.1. Federal Information Processing Standards Publications (FIPS PUBS)

Information Technology products under this Schedule that do not conform to Federal Information Processing Standards (FIPS) should not be acquired unless a waiver has been granted in accordance with the applicable “FIPS Publication.” Federal Information Processing Standards Publications (FIPS PUBS) are issued by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Information concerning their availability and applicability should be obtained from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield,

Virginia 22161. FIPS PUBS include voluntary standards when these are adopted for Federal use. Individual orders for FIPS PUBS should be referred to the NTIS Sales Office, and orders for subscription service should be referred to the NTIS Subscription Office, both at the above address, or telephone number (703) 487-4650.

13.2. Federal Telecommunication Standards (FED-STDS)

Telecommunication products under this Schedule that do not conform to Federal Telecommunication Standards (FED-STDS) should not be acquired unless a waiver has been granted in accordance with the applicable "FED-STD." Federal Telecommunication Standards are issued by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Ordering information and information concerning the availability of FED-STDS should be obtained from the GSA Federal Acquisition Schedule, Specification Section, 470 East L'Enfant Plaza, Suite 8100, SW, Washington, DC 20407, telephone number (202) 619-8925. Please include a self-addressed mailing label when requesting information by mail. Information concerning their applicability can be obtained by writing or calling the U.S. Department of Commerce, National Institute of Standards and Technology, Gaithersburg, MD 20899, telephone number (301) 975-2833.

14. Contractor Tasks/Special Requirements (C-FSS-370) (Nov 2003)

- (a) **Security Clearances:** The Contractor may be required to obtain/possess varying levels of security clearances in the performance of orders issued under this contract. All costs associated with obtaining/possessing such security clearances should be factored into the price offered under the Multiple Award Schedule.
- (b) **Travel:** The Contractor may be required to travel in performance of orders issued under this contract. Allowable travel and per diem charges are governed by Pub.L.99-234 and FAR Part 31, and are reimbursable, including G&A, by the ordering agency or can be priced as a fixed price item on orders placed under the Multiple Award Schedule. Travel in performance of a task order will only be reimbursable to the extent authorized by the ordering agency. The Industrial Funding Fee does NOT apply to travel and per diem charges.
- (c) **Certifications, Licenses, and Accreditations:** As a commercial practice, the Contractor may be required to obtain/possess any variety of certifications, licenses, and accreditations for specific FSC/service code classifications offered. All costs associated with obtaining/possessing such certifications, licenses, and accreditations should be factored into the price offered under the Multiple Award Schedule program.
- (d) **Insurance:** As a commercial practice, the Contractor may be required to obtain/possess insurance coverage for specific FSC/service code classifications offered. All costs associated with obtaining/possessing such insurance should be factored into the price offered under the Multiple Award Schedule program.
- (e) **Personnel:** The Contractor may be required to provide key personnel, resumes, or skill category descriptions in the performance of orders issued under this contract. Ordering activities may require agency approval of additions or replacements to key personnel.
- (f) **Organizational Conflicts of Interest:** Where there may be an organizational conflict of interest as determined by the ordering agency, the Contractor's participation in such order may be restricted in accordance with FAR Part 9.5.
- (g) **Documentation/Standards:** The Contractor may be requested to provide products or services in accordance with rules, regulations, OMB orders, standards, and documentation as specified by the agency's order.
- (h) **Data/Deliverable Requirements:** Any required data/deliverables at the ordering level will be as specified or negotiated in the agency's order.

- (i) **Government-Furnished Property:** As specified by the agency's order, the Government may provide property, equipment, materials, or resources as necessary.
- (j) **Availability of Funds:** Many Government agencies' operating funds are appropriated for a specific fiscal year. Funds may not be presently available for any orders placed under the contract or any option year. The Government's obligation on orders placed under this contract is contingent upon the availability of appropriated funds from which payment for ordering purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are available to the ordering Contracting Officer.
- (k) **Overtime:** For professional services, the labor rates in the Schedule should not vary by virtue of the Contractor having worked overtime. For services applicable to the Service Contract Act (as identified in the Schedule), the labor rates in the Schedule will vary as governed by labor laws (usually assessed a time and a half of the labor rate).

15. Contract Administration For Ordering Activities

Any ordering activity, with respect to any one or more delivery orders placed by it under this contract, may exercise the same rights of termination as might the GSA Contracting Officer under provisions of FAR 52.212-4, paragraphs (l) Termination for the Ordering Activity's Convenience and (m) Termination for Cause (see 52.212-4).

16. GSA Advantage! (™) is an on-line, interactive electronic information and ordering system that provides on-line access to vendors' schedule prices with ordering information. The GSA Advantage! (™) will allow the user to perform various searches across all contracts including, but not limited to:

1. Manufacturer
2. Manufacturer's Part Number
3. Product categories.

Agencies can browse GSA Advantage! (™) by accessing the Internet World Wide Web utilizing a browser (e.g., Netscape). The Internet address is <http://www.gsaadvantage.gov>.

17. Purchase of Open Market Items

NOTE: Open Market Items are also known as incidental items, noncontract items, non-Schedule items, and items not on a Federal Acquisition Schedule contract. ODCs (Other Direct Costs) are not part of this contract and should be treated as open market purchases. Ordering Activities procuring open market items must follow FAR 8.402(f).

For administrative convenience, an ordering activity contracting officer may add items not on the Federal Supply Multiple Award Schedule (MAS) — referred to as open market items — to a Federal Acquisition Schedule blanket purchase agreement (BPA) or an individual task or delivery order, **only if** —

- (1) All applicable acquisition regulations pertaining to the purchase of the items not on the Federal Acquisition Schedule have been followed (e.g., publicizing (Part 5), competition requirements (Part 6), acquisition of commercial items (Part 12), contracting methods (Parts 13, 14, and 15), and small business programs (Part 19));
- (2) The ordering activity contracting officer has determined the price for the items not on the Federal Supply Schedule is fair and reasonable;
- (3) The items are clearly labeled on the order as items not on the Federal Supply Schedule; and
- (4) All clauses applicable to items not on the Federal Supply Schedule are included in the order.

18. Contractor Commitments, Warranties, and Representations

- (a) For the purpose of this contract, commitments, warranties and representations include, in addition to those agreed to for the entire schedule contract:

1. Time of delivery/installation quotations for individual orders.
2. Technical representations and/or warranties of products concerning performance, total system performance and/or configuration, physical, design and/or functional characteristics and capabilities of a product/equipment/service/software package submitted in response to requirements which result in orders under this schedule contract.
3. Any representations and/or warranties concerning the products made in any literature, description, drawings and/or specifications furnished by the Contractor.

(b) The above is not intended to encompass items not currently covered by the GSA Schedule contract.

19. Overseas Activities

The terms and conditions of this contract shall apply to all orders for installation, maintenance and repair of equipment in areas listed in the pricelist outside the 48 contiguous states and the District of Columbia. Upon request of the contractor, the ordering activity may provide the contractor with logistics support, as available, in accordance with all applicable ordering activity regulations. Such ordering activity support will be provided on a reimbursable basis, and will only be provided to the Contractor's technical personnel whose services are exclusively required for the fulfillment of the terms and conditions of this contract.

20. Blanket Purchase Agreements (BPAs)

The use of BPAs under any schedule contract to fill repetitive needs for supplies or services is allowable. BPAs may be established with one or more schedule contractors. The number of BPAs to be established is within the discretion of the ordering activity establishing the BPA and should be based on a strategy that is expected to maximize the effectiveness of the BPA(s). Ordering activities shall follow FAR 8.405-3 when creating and implementing BPA(s)

21. Contractor Team Arrangements

Contractors participating in contractor team arrangements must abide by all the terms and conditions of their respective contracts. This includes compliance with Clauses 552.238-74, Industrial Funding Fee and Sales Reporting, i.e., each contractor (team member) must report sales and remit the IFF for all products and services provided under its individual contract.

22. Installation, Deinstallation, Reinstallation

The Davis-Bacon Act (40 U.S.C. 276a-276a-7) provides that contracts in excess of \$2,000 to which the United States or the District of Columbia is a party for construction, alteration, or repair (including painting and decorating) of public buildings or public works with the United States, shall contain a clause that no laborer or mechanic employed directly upon the site of the work shall receive less than the prevailing wage rates as determined by the Secretary of Labor. The requirements of the Davis-Bacon Act do not apply if the construction work is incidental to the furnishing of supplies, equipment, or services. For example, the requirements do not apply to simple installation or alteration of a public building or public work that is incidental to furnishing supplies or equipment under a supply contract. However, if the construction, alteration or repair is segregable and exceeds \$2,000, then the requirements of the Davis-Bacon Act apply. The ordering activity issuing the task order against this contract will be responsible for proper administration and enforcement of the Federal labor standards covered by the Davis-Bacon Act. The proper Davis-Bacon wage determination will be issued by the ordering activity at the time a request for quotations is made for applicable construction classified installation, deinstallation, and reinstallation services under SIN 132-8.

23. Section 508 Compliance

I certify that in accordance with 508 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794d), FAR 39.2, and the Architectural and Transportation Barriers Compliance Board Electronic and Information Technology (EIT) Accessibility Standards (36 CFR 1194) General Services Administration (GSA), that all IT hardware/software/services are 508 compliant:

Yes _____*

No _____

** Leidos has the capability to comply with Section 508 requirements throughout its performance of this contract. Leidos is committed to supporting government customers in meeting their statutory requirements of Section 508 upon receipt of their Section 508 requirements in accordance with the FAR, and delineated under www.section508.gov/.*

In light of the above specified legal requirements, it is Leidos's understanding that the following regulatory guidance will be evaluated by the government and incorporated as deemed necessary into the SOW for each Task Order placed against this contract vehicle:

1. *Listing of Standards out of 36 CFR 1194 that will apply to the Task Order (products and services)*
2. *Listing of any specific technologies that the government wishes be used or purchased to support the contracted effort*
3. *Listing of legacy EIT conditions or other interoperability requirements that may affect the contractor's ability to meet the regulatory Standards that were selected*
4. *Leidos is aware of the Section 508 requirement, and has the internal capability to address our clients' needs. We look forward to the opportunity to assist them in their EIT procurement or re-design needs, and can help them assess the status of their own Section 508 compliance.*

Should an exemption to the statutory requirements of Section 508 be applicable, Leidos will be notified in the Task Order SOW.

The offeror is required to submit with its offer a designated area on its website that outlines the Voluntary Product Accessibility Template (VPAT) or equivalent qualification, which ultimately becomes the Government Product Accessibility Template (GPAT). Section 508 compliance information on the supplies and services in this contract are available at the following website address (URL): **

*** Leidos recognizes the Government's request for information regarding the compliance level of the EIT products and services provided under this contract. Leidos is committed to use the Standards that the Government will provide at the contract Task Order level. If Leidos cannot find and/or provide an EIT that meets all the Standards, Leidos will ensure that we provide for the Government's consideration the most accessible EIT for the Task Order requirement.*

For Leidos manufactured products, the Section 508 product information is available at the following website:

<https://app.buyaccessible.gov/DataCenter/>.

The EIT standard can be found at: www.Section508.gov/.

24. Prime Contractor Ordering From Federal Supply Schedules

Prime Contractors (on cost reimbursement contracts) placing orders under Federal Supply Schedules, on behalf of an ordering activity, shall follow the terms of the applicable schedule and authorization and include with each order-

- (a) A copy of the authorization from the ordering activity with whom the contractor has the prime contract (unless a copy was previously furnished to the Federal Supply Schedule contractor); and
- (b) The following statement:

This order is placed under written authorization from _____ dated _____.

In the event of any inconsistency between the terms and conditions of this order and those of your Federal Supply Schedule, the latter will govern.

25. Insurance – Work on a Government Installation (Jan 1997) (FAR 52.228-5)

- (a) The Contractor shall, at its own expense, provide and maintain during the entire performance of this

contract, at least the kinds and minimum amounts of insurance required in the Schedule or elsewhere in the contract.

- (b) Before commencing work under this contract, the Contractor shall notify the Contracting Officer in writing that the required insurance has been obtained. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective -
 - (1) For such period as the laws of the State in which this contract is to be performed prescribe; or
 - (2) Until 30 days after the insurer or the Contractor gives written notice to the Contracting Officer, whichever period is longer.
- (c) The Contractor shall insert the substance of this clause, including this paragraph (c), in subcontracts under this contract that require work on a Government installation and shall require subcontractors to provide and maintain the insurance required in the Schedule or elsewhere in the contract. The Contractor shall maintain a copy of all subcontractors' proofs of required insurance, and shall make copies available to the Contracting Officer upon request.

26. Software Interoperability

Offerors are encouraged to identify within their software items any component interfaces that support open standard interoperability. An item's interface may be identified as interoperable on the basis of participation in a Government agency-sponsored program or in an independent organization program. Interfaces may be identified by reference to an interface registered in the component registry located at <http://www.core.gov>.

27. Advance Payments

A payment under this contract to provide a service or deliver an article for the United States Government may not be more than the value of the service already provided or the article already delivered. Advance or pre-payment is not authorized or allowed under this contract. (31 U.S.C. 3324)

**BEST VALUE
BLANKET PURCHASE AGREEMENT
FEDERAL SUPPLY SCHEDULE**

(Insert Customer Name)

In the spirit of the Federal Acquisition Streamlining Act (ordering activity) and (Contractor) enter into a cooperative agreement to further reduce the administrative costs of acquiring commercial items from the General Services Administration (GSA) Federal Supply Schedule Contract(s) _____.

Federal Supply Schedule contract BPAs eliminate contracting and open market costs such as: search for sources; the development of technical documents, solicitations and the evaluation of offers. Teaming Arrangements are permitted with Federal Acquisition Schedule Contractors in accordance with Federal Acquisition Regulation (FAR) 9.6.

This BPA will further decrease costs, reduce paperwork, and save time by eliminating the need for repetitive, individual purchases from the schedule contract. The end result is to create a purchasing mechanism for the ordering activity that works better and costs less.

Signatures

Ordering Activity Date

Contractor Date

BPA NUMBER _____

**(CUSTOMER NAME)
BLANKET PURCHASE AGREEMENT**

Pursuant to GSA Federal Supply Schedule Contract Number(s) _____, Blanket Purchase Agreements, the Contractor agrees to the following terms of a Blanket Purchase Agreement (BPA) EXCLUSIVELY WITH (ordering activity):

(1) The following contract items can be ordered under this BPA. All orders placed against this BPA are subject to the terms and conditions of the contract, except as noted below:

MODEL NUMBER/PART NUMBER	*SPECIAL BPA DISCOUNT/PRICE
_____	_____

(2) Delivery:

DESTINATION	DELIVERY SCHEDULES / DATES
_____	_____

(3) The ordering activity estimates, but does not guarantee, that the volume of purchases through this agreement will be _____.

(4) This BPA does not obligate any funds.

(5) This BPA expires on _____ or at the end of the contract period, whichever is earlier.

(6) The following office(s) is hereby authorized to place orders under this BPA:

OFFICE	POINT OF CONTACT
_____	_____

- (7) Orders will be placed against this BPA via Electronic Data Interchange (EDI), FAX, or paper.
- (8) Unless otherwise agreed to, all deliveries under this BPA must be accompanied by delivery tickets or sales slips that must contain the following information as a minimum:
- (a) Name of Contractor
 - (b) Contract Number
 - (c) BPA Number
 - (d) Model Number or National Stock Number (NSN)
 - (e) Purchase Order Number
 - (f) Date of Purchase
 - (g) Quantity, Unit Price, and Extension of Each Item (unit prices and extensions need not be shown when incompatible with the use of automated systems; provided, that the invoice is itemized to show the information)
 - (h) Date of Shipment.
- (9) The requirements of a proper invoice are specified in the Federal Supply Schedule contract. Invoices will be submitted to the address specified within the purchase order transmission issued against this BPA.
- (10) The terms and conditions included in this BPA apply to all purchases made pursuant to it. In the event of an inconsistency between the provisions of this BPA and the Contractor's invoice, the provisions of this BPA will take precedence.

BASIC GUIDELINES FOR USING "CONTRACTOR TEAM ARRANGEMENTS"

Federal Supply Schedule Contractors may use "Contractor Team Arrangements" (see FAR 9.6) to provide solutions when responding to an ordering activity requirements.

These Team Arrangements can be included under a Blanket Purchase Agreement (BPA). BPAs are permitted under all Federal Supply Schedule contracts.

Orders under a Team Arrangement are subject to terms and conditions of the Federal Supply Schedule Contract.

Participation in a Team Arrangement is limited to Federal Acquisition Supply Contractors.

Customers should refer to FAR 9.6 for specific details on Team Arrangements.

Here is a general outline on how it works:

- The customer identifies their requirements.
- Federal Supply Schedule Contractors may individually meet the customer's needs, or -
- Federal Supply Schedule Contractors may individually submit a Schedules "Team Solution" to meet the customer's requirement.
- Customers make a best value selection.

**TERMS AND CONDITIONS APPLICABLE TO PURCHASE OF GENERAL PURPOSE
COMMERCIAL INFORMATION TECHNOLOGY EQUIPMENT (SPECIAL ITEM 132-8)**

1. Material and Workmanship

All equipment furnished hereunder must satisfactorily perform the function for which it is intended.

2. Order

A written order, EDI orders (GSA Advantage! and FACNET) credit card, and orders placed under blanket purchase agreements (BPA) agreements shall be the basis for purchase in accordance with the provisions of this contract. If time of delivery extends beyond the expiration date of the contract, the Contractor will be obligated to meet the delivery and installation date specified in the original order.

For credit card orders, BPAs and telephone orders are permissible

3. Transportation of Equipment

FOB DESTINATION. Prices cover equipment delivery to destination, for any location within the geographic scope of this contract.

4. Installation and Technical Services

(a) **Installation.** When the equipment provided under this contract is not normally self-installable, the Contractor's technical personnel shall be available to the ordering activity, at the ordering activity's location, to install the equipment and to train ordering activity personnel in the use and maintenance of the equipment. The charges, if any, for such services are listed below, or in the price schedule.

(b) **Installation, Deinstallation, Reinstallation.** The Davis-Bacon Act (40 U.S.C. 276a-276a-7) provides that contracts in excess of \$2,000 to which the United States or the District of Columbia is a party for construction, alteration, or repair (including painting and decorating) of public buildings or public works with the United States, shall contain a clause that no laborer or mechanic employed directly upon the site of the work shall receive less than the prevailing wage rates as determined by the Secretary of Labor. The requirements of the Davis-Bacon Act do not apply if the construction work is incidental to the furnishing of supplies, equipment, or services. For example, the requirements do not apply to simple installation or alteration of a public building or public work that is incidental to furnishing supplies or equipment under a supply contract. However, if the construction, alteration or repair is segregable and exceeds \$2,000, then the requirements of the Davis-Bacon Act apply.

The ordering activity issuing the task order against this contract will be responsible for proper administration and enforcement of the Federal labor standards covered by the Davis-Bacon Act. The proper Davis-Bacon wage determination will be issued by the ordering activity at the time a request for quotations is made for applicable construction classified installation, deinstallation, and reinstallation services under SIN 132-8.

(c) **Operating and Maintenance Manuals.** The Contractor shall furnish the ordering activity with one (1) copy of all operating and maintenance manuals, which are normally provided with the equipment being purchased.

5. Inspection/Acceptance

The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The ordering activity reserves the right to inspect or test any equipment that has been tendered for acceptance. The ordering activity may require repair or replacement of nonconforming equipment at no increase in contract price. The ordering activity must exercise its postacceptance rights (1) within a reasonable time after the defect was discovered or should have been discovered; and (2) before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item .

6. Warranty

- (a) Unless specified otherwise in this contract, the Supplier’s standard commercial warranty as stated in the supplier’s commercial pricelist will apply to this contract.
- (b) The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.
- (c) Limitation of Liability. Except as otherwise provided by an express or implied warranty, the Contractor will not be liable to the ordering activity for consequential damages resulting from any defect or deficiencies in accepted items.
- (d) If inspection and repair of defective equipment under this warranty will be performed at the Supplier’s plant it will be done in accordance with the supplier’s standard commercial practice.

7. Purchase Price for Ordered Equipment

The purchase price that the ordering activity will be charged will be the ordering activity purchase price in effect at the time of order placement, or the ordering activity purchase price in effect on the installation date (or delivery date when installation is not applicable), whichever is less.

8. Responsibilities of the Contractor

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City or otherwise) covering work of this character and shall include all costs, if any of such compliance in the prices quoted in this offer.

9 Trade-In of Information Technology Equipment

When an ordering activity determines that Information Technology equipment will be replaced, the agency shall follow the contracting policies and procedures in Federal Acquisition Regulation (FAR), the policies and procedures regarding Disposition of Information Technology Excess Personal Property in the Federal Property Management Regulations (FPMR) (41 CFR 101-43.6), and the policies and procedures on exchange/sale contained in FPMR (1 CFR part 101-46).

**TERMS AND CONDITIONS APPLICABLE
TO MAINTENANCE AND REPAIR FOR GOVERNMENT-OWNED
GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY EQUIPMENT
[AFTER EXPIRATION OF GUARANTEE/WARRANTY PROVISIONS AND/OR WHEN REQUIRED
SERVICE IS NOT COVERED BY GUARANTEE/WARRANTY PROVISIONS]
(SPECIAL ITEM 132-12)**

1. Service Areas

- (a) The maintenance and repair rates listed herein are applicable to any ordering activity location within the supplier's standard commercial mileage radius. If any additional charge is to apply because of the greater distance from the contractor's service locations, the mileage rate or other distance factor shall be stated in paragraph 8(d) and 9 (d) of this Special Item.
- (b) When repair services cannot be performed at the ordering activity installation site, the repair services will be performed at the supplier's plant(s) listed in accordance with their standard commercial terms.

2. Maintenance Order

- (a) Agencies may use written orders, EDI orders, credit card orders, or BPAs for ordering maintenance in accordance with the terms of this contract. The contractor shall confirm orders within fifteen (15) calendar days from the date of receipt, except that confirmation of orders shall be considered automatic for renewals for maintenance (Special Item 132-12). Automatic acceptance of order renewals for maintenance service shall apply for machines, which may have been discontinued from use for temporary periods of time not longer than 120 calendar days. If the order is not confirmed by the contractor as prescribed by this paragraph, the order shall be considered to be confirmed by the Contractor.
- (b) The Contractor shall honor orders for maintenance for the duration of the contract period or a lesser period of time, for the equipment shown in the pricelist. Maintenance service shall commence on a mutually agreed upon date, which will be written into the maintenance order. Maintenance orders shall not be made effective before the expiration of any applicable maintenance and parts guarantee/warranty period associated with the purchase of equipment. Orders for maintenance service shall not extend beyond the end of the contract period.
- (c) Maintenance may be discontinued by the ordering activity on thirty (30) calendar days written notice, or shorter notice when agreed to by the contractor; such notice to become effective thirty (30) calendar days from the date on the notification. However, the ordering activity may extend the original discontinuance date upon written notice to the contractor, provided that such notice is furnished at least then (10) calendar days prior to the original discontinuance date.
- (d) Annual Funding. When annually appropriated fiscal funds are cited on a maintenance order, the period of maintenance shall automatically expire on September 30th of the contract period, or at the end of the contract period, whichever occurs first. Renewal of a maintenance order citing the new appropriation shall be required, if maintenance is to continue during any remainder of the contract period.
- (e) Cross-year Funding Within Contract Period. Where an ordering activity's specific appropriation authority provides for funds in excess of a 12 month, fiscal year period, the ordering activity may place an order under this schedule contract for a period up to the expiration of the contract period, notwithstanding the intervening fiscal years.

- (f) Ordering activities should notify the Contractor in writing thirty (30) calendar days prior to the expiration of maintenance service, if maintenance is to be terminated at that time. Orders for continued maintenance will be required if maintenance is to be continued during the subsequent period.

3. Repair Service and Repair Parts/Spare Parts Orders

- (a) Agencies may use written orders, EDI orders, credit card orders, BPAs, or small order procedures for ordering repair service and/or repair parts/spare parts under this contract. Orders for repair service shall not extend beyond the end of the contract period.
- (b) When repair service is ordered, only one chargeable repair person shall be dispatched to perform repair service, unless the ordering office agrees, in advance, that additional repair personnel are required to effect repairs.

4. Loss or Damage

When the contractor removes equipment to his establishment for repairs, the Contractor shall be responsible for any damage or loss, from the time the equipment is removed from the ordering activity installation, until the equipment is returned to such installation.

5. Scope

- (a) The Contractor shall provide maintenance for all equipment listed herein, as requested by the ordering agency during the contract term. Repair service and repair parts/spare parts shall apply exclusively to the equipment types/models within the scope of this Information Technology Schedule.
- (b) Equipment being placed under a maintenance service contract shall be in good operating condition.
 - (1) In order to determine that the equipment is in good operating condition, the equipment shall be subject to inspection by the Contractor without charge to the ordering activity.
 - (2) Costs of any repairs performed for the purpose of placing the equipment in good operating condition shall be borne by the Contractor, if the equipment was under the Contractor's guarantee/warranty or maintenance responsibility prior to the effective date of the maintenance order.
 - (3) If the equipment was not under the Contractor's responsibility, the costs necessary to place the equipment in proper operating condition are to be borne by the ordering activity, in accordance with the provisions of Special Item Number 132-12 (or outside the scope of this contract).

6. Responsibilities of the Ordering Activity

- (a) Ordering Activity personnel will not perform maintenance or attempt repairs to equipment while such equipment is under the purview of a maintenance order, unless agreed to by the contractor.
- (b) Subject to security regulations, the ordering activity shall permit access to the equipment, which is to be maintained or repaired.

7. Responsibilities of the Contractor

For equipment not covered by a maintenance contract or warranty, the Contractor's repair service personnel shall complete repairs as soon as possible after notification by the ordering activity that service is required. Within the service areas, this repair service should normally be done within 4 hours after notification.

8. Maintenance Rate Provisions

- (a) The Contractor shall bear all costs of maintenance, including labor, parts, and such other expenses as are necessary to keep the equipment in good operating condition, provided that the required repairs are not occasioned by fault or negligence of the ordering activity.

- (b) **Regular Hours**

The basic monthly rate for each make and model of machine shall entitle the ordering activity to maintenance service during a mutually agreed upon nine (9) hour principal period of maintenance, Monday through Friday, exclusive of holidays observed at the ordering activity location.

- (c) **After Hours**

Should the ordering activity require that maintenance be performed outside of Regular Hours, charges for such maintenance, if any, will be specified in the pricelist. Periods of less than one hour will be prorated to the nearest quarter hour.

- (d) **Travel and Transportation**

If any charge is to apply, over and above the regular maintenance rates, because of the distance between the ordering activity location and the contractor's service area, the charge will be as outlined in the supplier's standard commercial terms.

- (e) **Quantity Discounts**

Quantity discounts from listed maintenance service rates for multiple machines owned by an ordering activity are indicated in the supplier's standard commercial terms.

9. Repair Service Rate Provisions

- (a) **Charges.** Charges for repair service will include the labor charge, computed at the rates set forth below, for the time during which repairmen are actually engaged in work, and, when applicable, the charge for travel or transportation.

- (b) **Multiple Machines.** When repairs are ordered by an ordering activity on two or more machines located in one or more buildings within walking distance of each other, the charges will be computed from the time the repairman commences work on the first machine, until the work is completed on the last machine. The time required to go from one machine to another, or from one building to another, will be considered actual work performance, and chargeable to the ordering activity, provided the time consumed in going between machines (or buildings) is reasonable.

- (c) **Travel or Transportation**

- (1) At the Contractor's Shop

- (a) When equipment is returned to the contractor's shop for adjustments or repairs which are not covered by the guarantee/warranty provision, the cost of transportation, packing, etc., from the ordering activity location to the contractor's plant, and return to the ordering activity location, shall be borne by the ordering activity.
- (b) The ordering activity should not return defective equipment to the contractor for adjustments and repairs or replacement without his prior consultation and instruction.

- (2) At the Ordering Activity Location (Within Established Service Areas)

When equipment is repaired at the ordering activity location, and repair service rates are established for service areas or zones, the listed rates are applicable to any ordering activity

location within such service areas or zones. No extra charge, time, or expense will be allowed for travel or transportation of repair people or machines to or from the ordering activity office; such overhead is included in the repair service rates listed.

(3) At the Ordering Activity Location (Outside Established Service Areas)

- (a)** The repair service rates listed for subparagraph (2) above apply, except that a travel charge, in accordance with supplier's standard commercial terms, for repair people will apply to the round-trip distance between the geographic limits of the applicable service area and the ordering activity location. Such charge will apply as an additional charge, but it will be limited to one round trip for each request that is made by the ordering activity for repair service, regardless of whether repairs are performed at the ordering activity location or at the contractor's shop.
- (b)** When the overall travel charge computed at the above mileage rate is unreasonable considering the time required for travel, actual and necessary transportation costs, and the allowable ordering activity per diem rate for each night the repairman is required to remain overnight at the ordering activity location, the ordering activity shall have the option of reimbursing the Contractor for actual costs, provided that the actual costs are reasonable and allowable. The Contractor shall furnish the ordering activity with a report of travel performed and related expenses incurred. The report shall include departure and arrival dates, times, and the applicable mode of travel.

(d) Labor Rates

(1) Regular Hours

The Regular Hours repair service rates listed herein shall entitle the ordering activity to repair service during the period 8:00 a.m. to 5:00 p.m., Monday through Friday, exclusive of holidays observed at the ordering activity location. There shall be no additional charge for repair service, which was requested during Regular Hours, but performed outside the Regular Hours defined above, at the convenience of the Contractor.

(2) After Hours

When the ordering activity requires that repair service be performed outside the Regular Hours defined above, except Sundays and Holidays observed at the ordering activity location, the After Hours repair service rates listed herein shall apply. The Regular Hours rates defined above shall apply when repair service is requested during Regular Hours, but performed After Hours at the convenience of the Contractor.

(3) Sundays and Holidays

When the ordering activity requires that repair service be performed on Sundays and Holidays observed at the ordering activity location, the Sundays and Holidays repair service rates listed herein shall apply. When repair service is requested to be performed during Regular Hours and/or After Hours, but is performed at the convenience of the Contractor on Sundays or Holidays observed at the ordering activity location, the Regular Hours and/or After Hours repair service rates, as applicable, shall apply. Repair Service Rates: Charged in accordance with the supplier's standard commercial terms.

10. Repair Parts/Spare Parts Rate Provisions

All parts, furnished as spares or as repair parts in connection with the repair of equipment, unless otherwise indicated in this pricelist, shall be new, standard parts manufactured by the equipment

manufacturer. All parts shall be furnished at prices indicated in the Contractor's commercial pricelist in accordance with their standard commercial terms.

11. Guarantee/Warranty – Repair Service and Repair Parts/Spare Parts

(a) Repair Service

All repair service work will be guaranteed/warranted in accordance with the supplier's standard commercial terms.

(b) Repair Parts/Spare Parts

All parts, furnished either as spares or repair parts will be guaranteed/warranted in accordance with the supplier's standard commercial terms.

12. Invoices and Payments

(a) Maintenance Services

(1) Invoices for maintenance service shall be submitted by the Contractor on a quarterly or monthly basis, after the completion of such period. Maintenance charges must be paid in arrears (31 U.S.C. 3324). PROMPT PAYMENT DISCOUNT, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.

(2) Payment for maintenance service of less than one month's duration shall be prorated at 1/30th of the monthly rate for each calendar day.

(b) Repair Service and Repair Parts/Spare Parts

Invoices for repair service and parts shall be submitted by the Contractor as soon as possible after completion of work. Payment under blanket purchase orders will be made quarterly or monthly, except where cash payment procedures are used. Invoices shall be submitted separately to each ordering activity office ordering services under the contract. The cost of repair parts shall be shown as a separate item on the invoice, and shall be priced in accordance with paragraph 9, below. PROMPT PAYMENT DISCOUNT, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.

TERMS AND CONDITIONS APPLICABLE TO TERM SOFTWARE LICENSES (SPECIAL ITEM NUMBER 132-32), PERPETUAL SOFTWARE LICENSES (SPECIAL ITEM NUMBER 132-33) AND MAINTENANCE AS A SERVICE (SPECIAL ITEM NUMBER 132-34) OF GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY SOFTWARE

1. Inspection/Acceptance

The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The ordering activity reserves the right to inspect or test any software that has been tendered for acceptance. The ordering activity may require repair or replacement of nonconforming software at no increase in contract price. The ordering activity must exercise its post acceptance rights (1) within a reasonable time after the defect was discovered or should have been discovered; and (2) before any substantial change occurs in the condition of the software, unless the change is due to the defect in the software.

2. Guarantee/Warranty

- (a) Unless specified otherwise in this contract, the Supplier's standard commercial guarantee/warranty as stated in the contract's commercial pricelist will apply to this contract.
- (b) The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for the use for the particular purpose described in this contract.
- (c) **Limitation of Liability.** Except as otherwise provided by an express or implied warranty, the Contractor will not be liable to the ordering activity for consequential damages resulting from any defect or deficiencies in accepted items.

3. Technical Services

In accordance with the supplier's standard commercial terms.

4. Software Maintenance

- (a) Software maintenance as it is defined: (select software maintenance type) :

1. Software Maintenance as a Product (SIN 132-32 or SIN 132-33)

Software maintenance as a product includes the publishing of bug/defect fixes via patches and updates/upgrades in function and technology to maintain the operability and usability of the software product. It may also include other no charge support that are included in the purchase price of the product in the commercial marketplace. No charge support includes items such as user blogs, discussion forums, on-line help libraries and FAQs (Frequently Asked Questions), hosted chat rooms, and limited telephone, email and/or web-based general technical support for user's self diagnostics.

Software maintenance as a product does NOT include the creation, design, implementation, integration, etc. of a software package. These examples are considered software maintenance as a service.

2. Software Maintenance as a Service (SIN 132-34)

Software maintenance as a service creates, designs, implements, and/or integrates customized changes to software that solve one or more problems and is not included with the price of the software. Software maintenance as a service includes person-to-person communications regardless

of the medium used to communicate: telephone support, on-line technical support, customized support, and/or technical expertise, which are charged commercially. Software maintenance as a service is billed in arrears in accordance with 31 U.S.C. 3324.

- (b) Invoices for maintenance service shall be submitted by the Contractor on a quarterly or monthly basis, after the completion of such period. Maintenance charges must be paid in arrears (31 U.S.C. 3324). PROMPT PAYMENT DISCOUNTS, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.
- (c) GeoRover offers prorated maintenance (see GeoRover software)

5. Periods of Term License – (132-32) and Maintenance – (132-34)

- (a) The Contractor shall honor orders for the duration of the contract period or a lesser period of time.
- (b) Term licenses and/or maintenance may be discontinued by the ordering activity on thirty (30) calendar day's written notice to the Contractor.
- (c) **Annual Funding.** When annually appropriated funds are cited on an order for term licenses and/or maintenance, the period of the term licenses and/or maintenance shall automatically expire on September 30 of the contract period or at the end of contract period, whichever occurs first. Renewal of the term licenses and/or maintenance orders citing the new appropriation shall be required, if the term licenses and/or maintenance are to be continued during any remainder of the contract period.
- (d) **Cross-year Funding Within Contract Period.** Where an ordering activity's specific appropriation authority provides for funds in excess of a 12 month, (fiscal year) period, the ordering activity may place an order under this schedule contract for a period up to the expiration of the contract period, notwithstanding the intervening fiscal years.
- (e) Ordering activities should notify the Contractor in writing thirty (30) calendar days prior to the expiration of an order, if the term licenses and/or maintenance is to be terminated at that time. Orders for continuation of term licenses and/or maintenance will be required if maintenance is to be continued during the subsequent period.

6. Conversion from Term License to Perpetual License

- (a) The ordering activity may convert licenses from term to perpetual for any or all software at any time following acceptance of software. At the request of the ordering activity the Contractor shall furnish within ten (10) calendar days, for each software product that is contemplated for conversion, the total amount of conversion credits which have accrued while the software was on term license and the date of the last update or enhancement.
- (b) Conversion credits that are provided shall, within the limits specified, continue to accrue from one contract period to the next, provided the software remains on term license within the ordering activity.
- (c) The term license shall be discontinued from term license on the day immediately preceding the effective date of conversion from a term license to a perpetual license.
- (d) The price the ordering activity shall pay will be the perpetual license price that prevailed at the time such software was initially ordered for term license or the perpetual license price prevailing at the time of conversion, whichever is the lesser, less an amount equal to the supplier's standard conversion (%) of all term license payments during the period that the software was under term license within the ordering activity.

7. Term License Cessation

- (a) After a software product has been on a continuous term license for a period of time equal to the supplier's standard commercial terms, a fully paid-up, non-exclusive, perpetual license for the software product automatically accrue to the ordering activity. The period of continuous term license for automatic accrual of a fully paid-up perpetual license does not have to be achieved during a particular fiscal year; it is a written Contractor commitment that continues to be available for software that is initially ordered under this contract, until a perpetual, fully paid-up license accrues to the ordering activity. However, should the term license of the software be discontinued before the specified period of continuous term license has been satisfied, the perpetual license accrual shall be forfeited.
- (b) The Contractor agrees to provide updates and maintenance service for the software after a perpetual license has accrued, at the prices and terms of Special Item Number 132-34, if the licensee elects to order such services. Title to the software remains with the contractor.

8. Utilization Limitations – (SINs 132-32, 132-33, and 132-34)

- (a) Software acquisition is limited to commercial computer software defined in FAR Part 2.101.
- (b) When acquired by the ordering activity, commercial computer software and related documentation so legend shall be subject to the following:
 - (1) Title to and ownership of the software and documentation shall remain with the Contractor, unless otherwise specified.
 - (2) Software licenses are by site and by ordering activity. An ordering activity is defined as a cabinet level or independent ordering activity. The software may be used by any subdivision of the ordering activity (service, bureau, division, command, etc.) that has access to the site the software is placed at, even if the subdivision did not participate in the acquisition of the software. Further, the software may be used on a sharing basis where multiple ordering activities have joint projects that can be satisfied by the use of the software placed at one ordering activity's site. This would allow other activities access to one ordering activity's database. For ordering activity public domain databases, user agencies and third parties may use the computer program to enter, retrieve, analyze and present data. The user ordering activity will take appropriate action by instruction, agreement, or otherwise, to protect the Contractor's proprietary property with any third parties that are permitted access to the computer programs and documentation in connection with the user ordering activity's permitted use of the computer programs and documentation. For purposes of this section, all such permitted third parties shall be deemed agents of the user ordering activity.
 - (3) Except as is provided in paragraph 8.b(2) above, the ordering activity shall not provide or otherwise make available the software or documentation, or any portion thereof, in any form, to any third party without the prior written approval of the Contractor. Third parties do not include prime Contractors, subcontractors and agents of the ordering activity who have the ordering activity's permission to use the licensed software and documentation at the facility, and who have agreed to use the licensed software and documentation only in accordance with these restrictions. This provision does not limit the right of the ordering activity to use software, documentation, or information therein, which the ordering activity may already have or obtains without restrictions.
 - (4) The ordering activity shall have the right to use the computer software and documentation with the computer for which it is acquired at any other facility to which that computer may be transferred, or in cases of Disaster Recovery, the ordering activity has the right to transfer the software to another site if the ordering activity site for which it is acquired is deemed to be

unsafe for ordering activity personnel; to use the computer software and documentation with a backup computer when the primary computer is inoperative; to copy computer programs for safekeeping (archives) or backup purposes; to transfer a copy of the software to another site for purposes of benchmarking new hardware and/or software; and to modify the software and documentation or combine it with other software, provided that the unmodified portions shall remain subject to these restrictions.

- (5) “Commercial Computer Software” may be marked with the Contractor’s standard commercial restricted rights legend but the schedule contract and schedule pricelist including this clause, “Utilization Limitations” are the only governing terms and conditions, and shall take precedence and supersede any different or additional terms and conditions included in the standard commercial legend.

9. Software Conversions – (132-32 and 132-33)

Full monetary credit will be allowed to the ordering activity when conversion from one version of the software to another is made as the result of a change in operating system, or from one computer system to another. Under perpetual license (132-33), the purchase price of the new software shall be reduced by the amount that was paid to purchase the earlier version. Under term license (132-32), conversion credits, which accrued while the earlier version was under term license shall carry forward and remain available as conversion credits, which may be applied towards the perpetual license price of the new version.

10. Description and Equipment Compatibility

The Contractor shall include, in the schedule pricelist, a complete description of each software product and a list of equipment on which the software can be used. Also, included shall be a brief, introductory explanation of the modules and documentation that are offered.

11. Right-to-Copy Pricing

The Contractor shall insert the discounted pricing for right-to-copy licenses.

<p style="text-align: center;">TERMS AND CONDITIONS APPLICABLE TO PURCHASE OF TRAINING COURSES FOR GENERAL PURPOSE INFORMATION TECHNOLOGY EQUIPMENT AND SOFTWARE (SPECIAL ITEM 132-50)</p>

1. Scope

- (a) The Contractor shall provide training normally available to commercial customers, which will permit ordering activity users to make full, efficient use of general purpose commercial IT products. Training is restricted to training courses for those products within the scope of this solicitation.
- (b) The Contractor shall provide training at the Contractor's facility and/or at the ordering activity's location, as agreed to by the Contractor and the ordering activity.

2. Order

Written orders, EDI (GSA Advantage! and FACNET), and credit card orders placed under blanket purchase agreements (BPAs) shall be the basis for the purchase of training courses in accordance with the terms of this contract. Orders shall include the student's name, course title, course date and time, and contracted dollar amount of the course.

3. Time of Delivery

The Contractor shall conduct training on the date (time, day, month, and year) agreed to by the Contractor and the ordering activity.

4. Cancellation and Rescheduling

- (a) The ordering activity will notify the Contractor at least seventy-two (72) hours before the scheduled training date, if a student will be unable to attend. The Contractor will then permit the ordering activity to either cancel the order or reschedule the training at no additional charge. In the event the training class is rescheduled, the ordering activity will modify its original training order to specify the time and date of the rescheduled training class.
- (b) In the event the ordering activity fails to cancel or reschedule a training course within the time frame specified in paragraph (a), above, the ordering activity will be liable for the contracted dollar amount of the training course. The Contractor agrees to permit the ordering activity to reschedule a student who fails to attend a training class within ninety (90) days from the original course date, at no additional charge.
- (c) The ordering activity reserves the right to substitute one student for another up to the first day of class.
- (d) In the event the Contractor is unable to conduct training on the date agreed to by the Contractor and the ordering activity, the Contractor must notify the ordering activity at least seventy-two (72) hours before the scheduled training date.

Follow-Up Support

- 5.** The Contractor agrees to provide each student with unlimited telephone support for a period of one (1) year from the completion of the training course. During this period, the student may contact the Contractor's instructors for refresher assistance and answers to related course curriculum questions.

6. Price for Training

The price that the ordering activity will be charged will be the ordering activity purchase price in effect at the time of order placement, or the ordering activity price in effect at the time the training course is conducted, whichever is less.

7. Invoices and Payment

Invoices for training shall be submitted by the Contractor after ordering activity completion of the training course. Charges for training must be paid in arrears (31 U.S.C. 3324). PROMPT PAYMENT DISCOUNT, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.

8. Format and Content of Training

- (a) The Contractor shall provide written materials (i.e., manuals, handbooks, texts, etc.) normally provided with course offerings. Such documentation will become the property of the student upon completion of the training class.
- (b) For hands-on training courses, there must be a one-to-one assignment of computer workstations to students.
- (c) The Contractor shall provide each student with a Certificate of Training at the completion of each training course.
- (d) The following information for each training course offered can be found in the standard commercial terms for each supplier.
 - (1) The course title and a brief description of the course content, to include the course format (e.g., lecture, discussion, hands-on training);
 - (2) The length of the course;
 - (3) Mandatory and desirable prerequisites for student enrollment;
 - (4) The minimum and maximum number of students per class;
 - (5) The locations where the course is offered;
 - (6) Class schedules; and
 - (7) Price (per student, per class (if applicable)).
- (e) For those courses conducted at the ordering activity's location, instructor travel charges (if applicable), including mileage and daily living expenses, (e.g., per diem charges) are governed by Pub. L. 99-234 and FAR Part 31.205-46, and are reimbursable by the ordering activity on orders placed under the Multiple Award Schedule, as applicable, in effect on the date(s) the travel is performed. Contractors cannot use GSA city pair contracts. The Industrial Funding Fee does NOT apply to travel and per diem charges.
- (f) For Online Training Courses, a copy of all training material must be available for electronic download by the students.

“No Charge” Training

- 9.** Any training provided with equipment and/or software provided under this contract, free of charge, will be outlined in the supplier's standard commercial terms document.

<p style="text-align: center;">TERMS AND CONDITIONS APPLICABLE TO INFORMATION TECHNOLOGY (IT) PROFESSIONAL SERVICES (SPECIAL ITEM NUMBER 132-51)</p>

1. Scope

- (a) The prices, terms and conditions stated under Special Item Number 132-51 Information Technology Professional Services apply exclusively to IT Professional Services within the scope of this Information Technology Schedule.
- (b) The Contractor shall provide services at the Contractor's facility and/or at the ordering activity location, as agreed to by the Contractor and the ordering activity.

2. Performance Incentives I-FSS-60 Performance Incentives (April 2000)

- (a) Performance incentives may be agreed upon between the Contractor and the ordering activity on individual fixed price orders or Blanket Purchase Agreements under this contract.
- (b) The ordering activity must establish a maximum performance incentive price for these services and/or total solutions on individual orders or Blanket Purchase Agreements.
- (c) Incentives should be designed to relate results achieved by the contractor to specified targets. To the maximum extent practicable, ordering activities shall consider establishing incentives where performance is critical to the ordering activity's mission and incentives are likely to motivate the contractor. Incentives shall be based on objectively measurable tasks.

3. Orders

- (a) Agencies may use written orders, EDI orders, blanket purchase agreements, individual purchase orders, or task orders for ordering services under this contract. Blanket Purchase Agreements shall not extend beyond the end of the contract period: all services and delivery shall be made and the contract terms and conditions shall continue in effect until the completion of the order. Orders for tasks, which extend beyond the fiscal year for which funds are available shall include FAR 52.232-19 (Deviation – May 2003) Availability of Funds for the Next Fiscal Year. The purchase order shall specify the availability of funds and the period for which funds are available.
- (b) All task orders are subject to the terms and conditions of the contract. In the event of conflict between a task order and the contract, the contract will take precedence.

4. Performance of Services

- (a) The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering activity.
- (b) The Contractor agrees to render services only during normal working hours, unless otherwise agreed to by the Contractor and the ordering activity.
- (c) The ordering activity should include the criteria for satisfactory completion for each task in the Statement of Work or Delivery Order. Services shall be completed in a good and workmanlike manner.
- (d) Any Contractor travel required in the performance of IT Services must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Established Federal Government per diem rates will apply to all Contractor travel. Contractors cannot use GSA city pair contracts.

5. Stop Work Order (FAR 52.242-15) (AUG 1989)

- (a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is

delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work order is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either:

1. Cancel the stop-work order; or
 2. Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract.
- (b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if:
1. The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and
 2. The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage, provided that if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.
- (c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.
- (d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

6. Inspection of Services

The Inspection of Services–Fixed Price (AUG 1996) (Deviation 1 – May 2003) clause at FAR 52.246-4 applies to firm-fixed price orders placed under this contract. The Inspection–Time-and-Materials and Labor-Hour (May 2001) (Deviation 1 – May 2003) clause at FAR 52.246-6 applies to time-and-materials and labor-hour orders placed under this contract.

7. Responsibilities of the Contractor

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character. If the end product of a task order is software, then FAR 52.227-14 (Deviation – Dec 2007) Rights in Data – General, may apply.

8. Responsibilities of the Ordering Activity

Subject to security regulations, the ordering activity shall permit Contractor access to all facilities necessary to perform the requisite IT Professional Services.

9. Independent Contractor

All IT Professional Services performed by the Contractor under the terms of this contract shall be as an independent Contractor, and not as an agent or employee of the ordering activity.

10. Organizational Conflicts of Interest

- (a) Definitions.
- “Contractor” means the person, firm, unincorporated association, joint venture, partnership, or

corporation that is a party to this contract.

“Contractor and its affiliates” and “Contractor or its affiliates” refers to the Contractor, its chief executives, directors, officers, subsidiaries, affiliates, subcontractors at any tier, and consultants and any joint venture involving the Contractor, any entity into or with which the Contractor subsequently merges or affiliates, or any other successor or assignee of the Contractor.

An “Organizational conflict of interest” exists when the nature of the work to be performed under a proposed ordering activity contract, without some restriction on activities by the Contractor and its affiliates, may either (i) result in an unfair competitive advantage to the Contractor or its affiliates or (ii) impair the Contractor’s or its affiliates’ objectivity in performing contract work.

- (b) To avoid an organizational or financial conflict of interest and to avoid prejudicing the best interests of the ordering activity, ordering activities may place restrictions on the Contractors, its affiliates, chief executives, directors, subsidiaries and subcontractors at any tier when placing orders against schedule contracts. Such restrictions shall be consistent with FAR 9.505 and shall be designed to avoid, neutralize, or mitigate organizational conflicts of interest that might otherwise exist in situations related to individual orders placed against the schedule contract. Examples of situations, which may require restrictions, are provided at FAR 9.508.

11. Invoices

The Contractor, upon completion of the work ordered, shall submit invoices for IT/ Professional services. Progress payments may be authorized by the ordering activity on individual orders if appropriate. Progress payments shall be based upon completion of defined milestones or interim products. Invoices shall be submitted monthly for recurring services performed during the preceding month.

12. Payments

For firm-fixed price orders, the ordering activity shall pay the Contractor, upon submission of proper invoices or vouchers, the prices stipulated in this contract for service rendered and accepted. Progress payments shall be made only when authorized by the order. For time-and-materials orders, the Payments under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (OCT 2008) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to time-and-materials orders placed under this contract. For labor-hour orders, the Payment under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (OCT 2008) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to labor-hour orders placed under this contract. 52.216-31(Feb 2007) Time-and-Materials/Labor-Hour Proposal Requirements—Commercial Item Acquisition As prescribed in 16.601(e)(3), insert the following provision:

- (a) The Government contemplates award of a Time-and-Materials or Labor-Hour type of contract resulting from this solicitation.
- (b) The offeror must specify fixed hourly rates in its offer that include wages, overhead, general and administrative expenses, and profit. The offeror must specify whether the fixed hourly rate for each labor category applies to labor performed by—
 - (1) The offeror;
 - (2) Subcontractors; and/or
 - (3) Divisions, subsidiaries, or affiliates of the offeror under a common control.

13. Resumes

Resumes shall be provided to the GSA Contracting Officer or the user ordering activity upon request.

14. Incidental Support Costs

Incidental support costs are available outside the scope of this contract. The costs will be negotiated separately with the ordering activity in accordance with the guidelines set forth in the FAR.

15. Approval of Subcontracts

The ordering activity may require that the Contractor receive, from the ordering activity's Contracting Officer, written consent before placing any subcontract for furnishing any of the work called for in a task order.

16. Description of IT Services and Pricing

Leidos's GSA Information Technology Schedule (GS-35F-4461G) provides federal agencies as well as state and local governments with a streamlined procurement vehicle to acquire cutting-edge information technology services and selected IT products. Leidos offers IT related personnel services via specific labor categories that provide program management, engineering, analysis, evaluation, information security, facilities management, logistics services, ERP consultants, software engineers, data warehouse specialists, telecommunications network design and installation, cloud computing, IPv4 to IPv6 transition support and HSPD-12 professional services and many more. A description of Leidos's IT labor categories are provided herein.

- (a) Leidos offers engineering services, information security, facilities management, logistics services, telecommunication network design and installation, telecommunications clear-channel access and other similar service.
- (b) The Labor Rate Tables represent fully loaded hourly labor rates for each labor category at the contractor site (on-site) and at the Government site (off-site) for the contract Option Period 2 ending 1 January 2012. The published rates are inclusive of the GSA FAS Industrial Funding Fee. This contract uses performance based Statements of Work (SOWs) and allows for Firm-Fixed Price (FFP), Fixed Price/Level of Effort, Time and Materials or Labor-Hour Task/Delivery Orders.

On-Site (Contractor site) Rates: The Contractor will furnish personnel. The Contractor will also furnish such items as office space, normal office equipment and supplies required to perform the work specified in the task/delivery order. This includes telephones, faxes, personnel computers, postage, business software (e.g., word processors, spreadsheets, and graphics) and nominal reproduction. Additional items will be an ODC if not provided by the Government.

Off-Site (Government site) Rates: The Contractor will furnish personnel. The Government will furnish office space, equipment and supplies required to perform the work specified in the task/delivery order. This includes telephones, faxes, personnel computers, postage, business software (e.g., word processors, spreadsheets, and graphics) and all reproduction. Such items will be an ODC if not provided by the Government.

SIN 132-51: PROFESSIONAL SERVICES LABOR CATEGORIES AND RATES

ADMINISTRATIVE SUPPORT

General Summary

Provides administrative-type support to technical and management-level personnel. This includes, but is not limited to, documentation planning and support, project administration, general office support, executive secretarial support, human resource planning, event planning and administration, office relocation planning, etc.

Principal Duties and Responsibilities

1. Specializes in coordinating and planning office administration and support.
2. Reports directly to a client, usually at the client location, to support its operations as required.
3. Understands and provides documentation planning and support, project administration, general office support, executive secretarial support, human resource planning, event planning and administration, office relocation planning, etc. required in changing office environments.
4. May perform other duties as assigned.

Job Specifications

High School Diploma or G.E.D. or other equivalent degree program.

COMPUTER OPERATOR

General Summary

Operates computer systems and peripheral equipment where site-specific operating procedures are not will defined or are unusually complex. May be lead for small operations requirements.

Principal Duties and Responsibilities

1. Monitor and control a computer by operating the central console or on-line terminal in accordance with established routines.
2. Required to adapt to a variety of non-standard procedures that may include the introduction of new programs and equipment.
3. Assist in determining equipment settings and operating instructions for unique, non-standard processing. Continuously observe the operation of the equipment, resolving any deviations from standard.
4. May assist in manipulating controls to rearrange sequence of job steps and re-route processing in non-standard methods to quickly resolve problems potentially involving loss of critical data and to continue operations when individual units of the system malfunction.
5. Operate computer systems and peripheral equipment, conforming to unique, non-standard site specific operating procedures.
6. Monitor and control a computer by operating the central console or on-line terminal in accordance with established routines.
7. Maintain records regarding output units and supply inventories.
8. Must be familiar with all normal operating procedures and capable of implementing non-standard, unique, complex procedures independently.

Job Specifications

High School Diploma or equivalent and four (4) years of experience in operating medium or large-scale computer systems. If assigned a task or functional lead position, twelve (12) months supervising personnel operating computer systems. Directly related technical education/training may be substituted based on one (1) month of education/training for one (1) month of general experience not to exceed twelve (12) months. No further substitution of education for experience is permitted.

COMPUTER SYSTEM/NETWORK ENGINEER

General Summary

Engineering large complex computer systems and/or networks. Applies theories and principles of science or mathematics to the design of hardware, operating systems, networks and processes to solve technical problems. Systems may involve multiple protocols and interfaces, satellite communications, digital or fiber optic networks, etc.

Principal Duties and Responsibilities

1. Plan designs or redesign of systems, management and coordination.
2. Test and analyze all elements of the network facilities including power, software, communications devices, lines, modems and terminals.
3. Insure the overall integration of the enterprise network.
4. Monitor and control the performance and status of the network resources.
5. Utilize software and hardware tools, identify and diagnose highly complex problems and factors affecting network performance.
6. Maintain technical currency and study vendor products to determine which best meet client needs.
7. Provide guidance and direction to network support technicians.
8. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.

Job Specifications

Bachelor's degree from an accredited college or university in computer science, or engineering discipline and seven (7) years of increasingly complex and progressive experience in computer system/network engineering and design. Three (3) years of specialized experience related to hardware, operating systems and/or network systems specified in the task. If proposed as a Task Leader, twelve (12) months experience supervising computer or network operations personnel. Must also be a certified network engineer if required by the task. Five (5) years of specific job related experience or eight (8) years of general related experience may be substituted for the Bachelor's degree requirement or a Master's degree in an appropriate discipline may be substituted for two (2) years of general experience.

COMPUTER TELEPHONY INTEGRATION ARCHITECT

General Summary

Has broad high-level knowledge of telecommunications and data network integration architectures. This individual spans both the telecommunications and data network arenas and possesses the capability to direct, design, or develop network architecture plans, implementation or cutover plans, technical white papers, or perform requirements analysis for interoperability issues associated with the different communications environments. Supervises or manages the implementation of computer telephony integration

(CTI) and is considered a leading expert (LE) in the field. Capable of supervising multiple teams of specialty Engineers in highly complex data or telecommunications internetworking projects.

Principal Duties and Responsibilities

1. Provides lead analysis for the design of protocol suites for computer telephony integration.
2. Participates in national or international forums on interoperability requirements or standards for CTI.
3. Provides leadership or direction on innovative research associated with computer network or telecommunications network interoperability or integration.
4. Performs management responsibilities for a program or staff for CTI.
5. Provides in-depth analysis on CTI-related transport layer interoperability with data communications or telecommunications protocols or services.
6. May be responsible for designing Voice over Internet Protocol version 6 (IPv6) (VoIP) systems.
7. May perform other duties as required.

Job Specifications

A Doctorate in Computer Science, Electrical or Electronics Engineering, Information Systems, or equivalent and eight (8) years general work experience. A Master’s degree and ten (10) years general experience or a Bachelor’s degree and twelve (12) years general experience is considered equivalent to a Doctorate and eight (8) years general experience.

COMPUTER TELEPHONY INTEGRATION ENGINEER I

General Summary

Has knowledge in one or more aspects of telecommunications or data system integration. This individual possesses broad knowledge in one or more areas of the telecommunications or data network arenas and may possess specialized knowledge in one of the following areas: routing/switching infrastructures, transport technology, network management systems, or network protocols for computer telephony integration (CTI). Capable of working with supervision on specific tasks associated with the implementation of specific aspects of computer telephony integration.

1. Provides assistance and performs general technical tasks for computer telephony integration.
2. Performs research in support of the development of requirements or standards for a specific CTI specialty.
3. Performs general technical support in one or more specific areas of research associated with computer or telecommunications network interoperability or integration.
4. Assists in testing or analysis of CTI interoperability with data or telecommunication protocols or services.
5. May be responsible for designing Voice over Internet Protocol version 6 (IPv6) (VoIP) systems.
6. May perform other duties as required.

Job Specifications

Bachelor’s degree in Electrical/Electronics Engineering, Computer Science, Information Systems, or equivalent. Eight years of experience in Telecommunications, Data Networking, or Information Systems can be substituted for the Bachelor’s degree.

COMPUTER TELEPHONY INTEGRATION ENGINEER II

General Summary

Computer Telephony Integration Engineer that has broad knowledge in multiple aspects of telecommunications or data system integration. This individual possesses broad knowledge in one or more areas in either the telecommunications or data network arenas and may possess specialized knowledge in one of the following areas: routing/switching infrastructures, transport technology, network management systems, or network protocols for computer telephony integration (CTI). Capable of working alone on specific tasks associated with the implementation of specific aspects of a computer telephony integration (CTI) and is capable of providing limited guidance or supervision of Engineers in highly complex data or telecommunications internetworking projects.

Principal Duties and Responsibilities

1. Provides general support for computer telephony integration.
2. Provides support in national or international forums on requirements or standards for a specific CTI specialty.
3. Provides technical support in one or more specific areas of research associated with computer or telecommunications network interoperability or integration.
4. Provides support for the development of technical analysis, white papers, or research for specific technical areas on a CTI project.
5. Provides general analysis on CTI interoperability with data or telecommunication protocols or services.
6. May be responsible for designing or implementing Voice over Internet Protocol version 6 (IPv6) (VoIP) systems.
7. May perform other duties as required.

Job Specifications

A Master's degree in Computer Science, Electrical or Electronics Engineering, Information System, or equivalent and one (1) year general experience in data or telephony communications. A Bachelor's degree and two (2) years related work experience may be substituted for a Master's degree and one (1) year general experience.

COMPUTER TELEPHONY INTEGRATION ENGINEER III

General Summary

Has in-depth knowledge in multiple aspects of telecommunications or data system integration. This individual may possess subject matter expertise (SME) knowledge in either the telecommunications or data network arenas or may be specialized in either routing/switching infrastructures, transport technology, network management systems, or network protocols in computer telephony integration (CTI). Supervises or manages the implementation of specific aspects of computer telephony integration (CTI) and is capable of supervising a team of specialty Engineers in highly complex data or telecommunications internetworking projects.

Principal Duties and Responsibilities

1. Provides lead specialty engineer support for a specific CTI technology area associated with the computer telephony integration.
2. Participates in national or international forums on requirements or standards for a specific CTI specialty.
3. Provides technical support in one or more specific areas of research associated with computer or telecommunications network interoperability or integration.

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4. Performs technical lead management responsibilities for specific technical areas of expertise on a CTI project.
 5. Provides in-depth analysis on CTI interoperability with data or telecommunication protocols or services.
 6. May be responsible for designing Voice over Internet Protocol 6 (IPv6) (VoIP) systems.
 7. May perform other duties as required.

Job Specifications

A Doctorate in Computer Science, Electrical or Electronics Engineering, Information Systems, or equivalent and six (6) years general work experience in data or telephony communications. A Master's degree with eight (8) years general experience or a Bachelor's degree and ten (10) years general experience are considered equivalent to a Doctorate and six (6) years general experience.

COST ANALYST

General Summary

Performs Functional Economic Analysis (FEA) to evaluate the costs of alternative ways to accomplish functional objectives.

Principal Duties and Responsibilities

1. The FEA states investment costs, benefits, and risks as a net change to the functional baseline cost, the cost of doing business now and in the future.
2. Ensures that cross-functional, security, and other integration issues are addressed.

Job Specifications

Bachelor's degree or equivalent. Six (6) years of general experience is considered equivalent to a Bachelor's degree.

DATA ENTRY/ANALYST I

General Summary

Performs as a functional area expert for specialized applications and operational environments, knowledge of computer systems and ability to analyze problems to satisfy task order requirements.

Principal Duties and Responsibilities

1. Provides technical knowledge and analysis of specialized applications and operational environments, and advice on problems which require knowledge of the subject matter for effective solutions.
2. Applies principles, methods and knowledge of the functional area of expertise to specific task order requirements. Assists in the design and preparation of technical reports and related documentation.
3. Assist in the preparation and presentations and briefings as required by the task order. Responsibilities include providing documentation planning and support, project administration, general office support, entering data into database management computer systems for various functional areas to include web usage, GIS applications, patient appointing, medical coding/auditing, medical billing, referral management, medical transcription, etc. Works under general supervision.

Job Specifications

High School degree or equivalent. Requires three (3) years of general experience. Associates degree can be substituted for three (3) years of experience.

DATA ENTRY/ANALYST II

General Summary

Performs as a functional area expert for specialized applications and operational environments, knowledge of computer systems and ability to analyze complex problems to satisfy task order requirements. Possesses the ability to assume increasing responsibilities in the functional area activities such as web usage, GIS application reports and is knowledgeable of applicable functional standards and provides general technical support.

Principle Duties and Responsibilities

1. Provides technical knowledge and analysis of specialized applications and operational environments, and advice on problems which require knowledge of the subject matter for effective solutions.
2. Applies principles, methods and knowledge of the functional area of expertise to specific task order requirements. Designs and prepares technical reports and related documentation. Prepares and delivers presentations and briefings as required by the task order.
3. Responsibility includes coordinating and managing new functional area systems upgrades and entering data into database management computer systems for various functional areas to include providing documentation planning and support, project administration, general office support, patient appointing, medical coding/auditing, medical billing, referral management, medical transcription, etc. Works independently under minimal supervision.

Job Specifications

High School degree or equivalent and six (6) years general experience. Associates degree can be substituted for three (3) years of experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, no experience is required.

DATA ENTRY/ANALYST III

General Summary

Performs as a functional area expert for specialized applications and operational environments, knowledge of computer systems and ability to analyze complex problems to satisfy task order requirements. Possesses the ability to assume increasing responsibilities in the functional area activities and is knowledgeable of applicable functional standards and provides general technical support. Is capable of implementing functional area projects and performing business practice analysis.

Principle Duties and Responsibilities

1. Provides technical knowledge and analysis of specialized applications and operational environments, and advice on problems which require knowledge of the subject matter for effective solutions.
2. Applies principles, methods and knowledge of the functional area of expertise to specific task order requirements. Designs and prepares technical reports and related documentation. Prepares and delivers presentations and briefings as required by the task order.
3. Responsibility includes providing documentation planning and support, project administration, general office support, constructing database management systems, providing technical leadership for functional

area analysis, coordinating and managing new functional area systems upgrades, and entering data into database management computer systems for various functional areas to include web usage, GIS applications, patient appointing, medical coding/auditing, medical billing, referral management, medical transcription, etc. Possesses the ability to work independently and provides supervision to staff.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. Associates degree can be substituted for three (3) years of experience. With a Master's degree, three (3) years of general experience is required.

DATA WAREHOUSE SPECIALIST I

General Summary

Performs as a Data Warehouse Developer on large-scale database management systems. Knowledge of computer equipment and ability to develop complex software to satisfy design objectives including GIS datawarehousing, spatial data library management, conducting spatial data queries, Cloud Optimized Storage (COS), Storage as a Service, Infrastructure as a Service (IAAS) and Data Multi-tenancy concepts.

Principal Duties and Responsibilities

1. Analyzes functional business applications and design specifications for functional activities.
2. Develops block diagrams and logic flow charts.
3. Translates detailed design into computer software.
4. Prepares required documentation, including both program-level and user-level documentation.
5. Demonstrated ability to work independently with minimal supervision.

Job Specifications

Bachelor's degree or equivalent and one (1) year of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, no experience is required.

DATA WAREHOUSE SPECIALIST II

General Summary

Utilizes multidimensional database(s) on large-scale database management systems, uses OnLine Analytical Processing (OLAP) Access Tool, and ability to develop complex software to satisfy design objectives including spatial data modeling, GIS data management, Cloud Optimized Storage (COS), Storage as a Service, Infrastructure as a Service (IAAS) and Data Multi-tenancy.

Principal Duties and Responsibilities

1. Analyzes and develops functional business applications and design specifications for functional activities.
2. Tests, debugs, and refines the computer software to produce the required product.
3. Enhances software to reduce operating time or improve efficiency.
4. Demonstrated ability to work independently under minimal supervision.

Job Specifications

Bachelor's degree or equivalent and three (3) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree one (1) year of general experience is required.

DATA WAREHOUSE SPECIALIST III

General Summary

Performs as a Data Warehouse Developer using OLAP tools on large-scale database management systems, knowledge of computer equipment, and ability to develop complex software to satisfy design objectives including spatial data modeling, GIS data management, Cloud Optimized Storage (COS), Storage as a Service, Infrastructure as a Service (IAAS) and Data Multi-tenancy concepts.

Principal Duties and Responsibilities

1. Analyzes and develops computer software processing a wide range of capabilities, including data warehouse technologies, business data model, Executive Information Management, and Decision Support System.
2. Analyzes user interfaces, maintain hardware and software performance tuning, analyze workload and computer usage, maintain interfaces with outside systems, analyze proposed system modifications, upgrades and new COTS.
3. Provides technical direction to junior staff.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, three (3) years of general experience is required. With a PhD, one (1) year of general experience is required.

DATA WAREHOUSE SPECIALIST IV

General Summary

Performs as a Data Warehouse Developer/Administrator on large-scale database management systems, knowledge of computer equipment, and ability to develop complex software to satisfy design objectives. Possesses ability to assume increasing responsibilities in data mart information system design and management including Spatial data modeling, GIS data management, GIS workflow modeling, Cloud Optimized Storage (COS) modeling, Storage as a Service design, Infrastructure as a Service (IAAS) and Data Multi-tenancy data segregation modeling.

Principal Duties and Responsibilities

1. Provides technical and administrative direction for personnel performing software development tasks, including the review of work products for correctness, adherence to the design concept and to user standards, and for progress in accordance with schedules.
2. Coordinates with Project and/or Program Manager to ensure problem solution and user satisfaction.
3. Makes recommendations, if needed, for approval of major systems installations.
4. Prepares milestone status reports and deliveries/presentations on the system concept to colleagues, subordinates, and end user representatives.

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5. Provides daily supervision and technical direction to staff to ensure program deadlines are met.

Job Specifications

Bachelor's degree or equivalent and seven (7) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, five (5) years of general experience is required. With a PhD, 3 year of general experience is required.

DATA WAREHOUSE SPECIALIST V

General Summary

Performs as a Data Warehouse Developer/Administrator on large-scale database management systems, knowledge of computer equipment and ability to develop complex software to satisfy design objectives. Possesses ability to assume increasing responsibilities in enterprise data warehouse project information system design and management including spatial data modeling, enterprise GIS data management, enterprise GIS design and enterprise spatial data integration, Cloud Optimized Storage (COS) modeling, Storage as a Service design, Infrastructure as a Service (IAAS) and Data Multi-tenancy data segregation modeling.

Principal Duties and Responsibilities

1. Applies an enterprise-wide set of data warehouse disciplines for the planning, analysis, data refinement, design and construction of information systems on an enterprise-wide basis or across a major sector of the enterprise.
2. Develops analytical and computational techniques and methodology for problem solutions.
3. Performs enterprise-wide strategic systems planning, business information planning, business and analysis.

Provides daily supervision and direction to organization.

Job Specifications

Bachelor's degree or equivalent and nine (9) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, seven (7) years of general experience is required. With a PhD, five (5) years of general experience is required.

DRAFTSMAN

General Summary

Develops engineering drawings, using computer-based drawing packages.

Principal Duties and Responsibilities

1. Develops engineering drawings for site plans, electrical interconnects, mechanical plans for specialized hardware, etc.

Job Specifications

High School Diploma or equivalent and three (3) years of experience. With High School Diploma or equivalent and a training program, one (1) year of general experience is required. There is no experience substitution for a

High School Diploma; however, a G.E.D., other degree equivalency program, or a technical trade school certificate is acceptable. With a Bachelor's degree, no experience is required.

ENTERPRISE CONSULTANT

General Summary

Deploys enterprise-wide system management tools. Performs ongoing operation issues and has the capability to manage systems. Has a good understanding of complex, multi-platform information technology (IT) infrastructure operations, processes and tools. Deploy architected solution and ability to solve unanticipated complications in the field including enterprise geospatial design, GIS architecture, geospatial workflow management, GIS database design, ESRI, Oracle Spatial, SQL Server, MapInfo, quality assurance, FGDC, OGIS, OGC and other GIS standards. Also has a good understanding of Cloud Deployment Models (Public, Private, Hybrid, Community), Cloud Delivery Services (Software as a Service [SAAS], Platform as a Service [PAAS] and Infrastructure as a Service [IAAS]), hypervisors and virtualization.

Principal Duties and Responsibilities

1. Deploy and document enterprise management solutions for complex heterogeneous IT environments.
2. Integrate systems, network and help desk tools into an integrated IT solution.
3. Provide hardware and software tool selection analysis and recommendations.
4. Lead technical teams with diverse areas of specialization to implement multiple software management tools either sequentially or in parallel.
5. May be responsible for designing new Cloud Computing environments and/or planning transition/migration from an existing Data Center to a Cloud Computing Environment.
6. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
7. May perform other duties as assigned

Job Specifications

Bachelor's degree or equivalent and six (6) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, two (2) years of general experience is acceptable. With a PhD, no experience is required.

ERP CONSULTANT I

General Summary

Performs evaluation and implementation tasks for Enterprise Resource Planning (ERP) and ERP-related software products by applying product knowledge, industry experience, and project methodology.

Principal Duties and Responsibilities

1. Provides knowledge of specific software product modules or technical tools with hands-on experience and has the ability to transfer knowledge and skill.
2. Familiar with key business roles and knowledgeable about applying technology to business operations in at least one industry.
3. Applies industry knowledge, knowledge of area of expertise,* and product knowledge to gather and document customer business process requirements.

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4. Develops or executes basic functional and technical specifications and testing for system configuration, mapping, and reporting.
 5. Executes project plan tasks and other duties as assigned. Provides regular status on tasks and issues.
 - * Areas of Expertise: Functional Area (HRMS, Financials, Distribution, Manufacturing, Student Admin), Tools Development, Web Development, and Technical Infrastructure.

Job Specifications

Bachelor's degree or equivalent and one (1) year of general business experience. Six years of general experience is equivalent to a Bachelor's degree. With a Master's degree, no experience is required.

ERP CONSULTANT II

General Summary

Performs evaluation and implementation tasks for Enterprise Resource Planning (ERP) and ERP-related software products using broad industry experience including industry best practices, and extensive product knowledge. Adapts project methodology as needed.

Principal Duties and Responsibilities

1. Provides knowledge of an entire functional area or other area of expertise* with hands-on experience in multiple modules and has the ability to transfer knowledge and skill.
2. Accomplished at professional level roles and knowledgeable about applying technology to business operations in at least one industry.
3. Applies industry best practices and product knowledge in developing tools to lead requirements gathering sessions for individual modules and makes specific business process recommendations.
4. Develops or executes functional and technical specifications and testing for advanced system configuration, interfaces, installation and modifications.
5. Executes project plan tasks and other duties as assigned. Provides regular status on tasks and issues. Provides input to project plan and resource requirements.

*Areas of Expertise: Functional Area (HRMS, Financials, Distribution, Manufacturing, Student Admin), Tools Development, Web Development, and Technical Infrastructure.

Job Specifications

Bachelor's degree or equivalent and two (2) years of general business experience. Six years of general experience is equivalent to a Bachelor's degree. With a Master's degree, one (1) year of general experience is required. With a PhD, no experience is required.

ERP CONSULTANT III

General Summary

Performs evaluation and implementation tasks for Enterprise Resource Planning (ERP) and ERP-related software products using broad industry experience, including industry best practices and extensive product knowledge. Leads parts of the project and creates project methodology as needed.

Principal Duties and Responsibilities

1. Provides knowledge of multiple functional areas or other areas of expertise* with hands-on experience in multiple modules or vendors and has the ability to transfer knowledge and skill.
2. Accomplished at several professional level roles and knowledgeable about applying technology to business operations in multiple industries.
3. Applies industry best practices, product knowledge, and experience to lead overall business requirements gathering sessions and makes overall business process recommendations.
4. Develops or executes functional and technical specifications and testing for complex interfaces, module integration, system extensions, and reporting systems.
5. Executes project plan tasks and other duties as assigned. Provides regular status on tasks and issues. Coordinates resources and occasionally assumes project management responsibilities.

* Areas of Expertise: Functional Area (HRMS, Financials, Distribution, Manufacturing, Student Admin), Tools Development, Web Development, and Technical Infrastructure.

Job Specifications

Bachelor's degree or equivalent and three (3) years of ERP implementation experience or four (4) years of general business experience. Six years of general experience is equivalent to a Bachelor's degree. With a Master's degree, two (2) years of general business experience is required. With a PhD, no experience is required.

ERP CONSULTANT IV

General Summary

Performs evaluation and complex implementation tasks for Enterprise Resource Planning (ERP) and ERP-related software products using broad industry experience and broad vendor experience, including overall industry best practices and extensive product knowledge. May lead the overall project, lead the technical portion of the project, or create the overall technical solution.

Principal Duties and Responsibilities

1. Provides knowledge of multiple functional areas or other areas of expertise with hands-on experience in multiple modules or vendors and has the ability to transfer knowledge and skill including vendor selection criteria development and application.
2. Accomplished at high level professional or managerial level roles and knowledgeable about applying technology to business operations in multiple industries.
3. Applies extensive industry best practice experience to develop recommendations for vendor selection, overall application strategy, and cost benefit decisions regarding development/modifications.
4. Creates overall system architecture based on business requirements and delivers tested, integrated systems.
5. Responsible for resource usage and project accomplishments along the project path. Acts as the identified point of contact for the project.

* Areas of Expertise: Functional Area (HRMS, Financials, Distribution, Manufacturing, Student Admin), Tools Development, Web Development, and Technical Infrastructure.

Job Specifications

Bachelor's degree or equivalent and four (4) years of ERP implementation experience or six (6) years of general business experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a PhD, one (1) year of general experience is required.

FUNCTIONAL ANALYST

General Summary

Applies broad knowledge and experience to complex requirements. Develops, designs and performs feasibility studies and functional systems analysis for complex integrated information management systems. Must be able to work independently.

Principal Duties and Responsibilities

1. Configuration Management Support for complex integrated management systems while maintaining quality assurance.
2. Provide business process re-engineering support such as, but not limited to, design of alternative strategies, development and monitoring of functional tests and assistance in the implementation of solutions.
3. Provide fiscal support as well as security analysis, human factor analysis and data analysis support.
4. May perform other duties as assigned.

Job Specifications

Bachelor's degree in a related curriculum and five (5) years of experience. Five (5) years of specific job related experience or eight (8) years of general experience may be substituted for a Bachelor's degree. With a Master's degree, three (3) years of general business experience is required.

FUNCTIONAL SPECIALIST

General Summary

Applies specific knowledge and experience to complex issues. Develops functional requirements relating to complex integrated information technology systems. Must demonstrate the ability to work independently or under only general direction.

Principal Duties and Responsibilities

1. Develop and provide skills and disciplines on a variety of information technology issues.
2. Assist Program Managers, Systems Analysts, Engineers and Programmers to ensure successful continuity and program completion.
3. Specialized skills include, but are not limited to, information planning, communications, systems administrations, quality assurance, video conferencing and microcomputer training.

Job Specifications

Bachelor's degree in a related curriculum and ten (10) years of experience. Five (5) years of specific job related experience or eight (8) years of general experience may be substituted for a Bachelor's degree.

HARDWARE/SOFTWARE INSTALLATION TECHNICIAN

General Summary

Conducts sites surveys; assesses and documents current site configuration and user requirements and installs new configurations such as operations systems, databases, ESRI, ArcGIS, ArcSDE, ArcServer, Image Server and Apache Tomcat.

Principal Duties and Responsibilities

1. Designs and optimize network topologies.
2. Analyzes existing requirements and prepares specifications for hardware/software acquisitions.
3. Prepares engineering plans and site installation Technical Design Packages.
4. Develops hardware/software installation schedules.
5. Prepares drawings documenting configuration changes at each site.
6. Prepares site installation and test reports.
7. Configures systems, communications devices, and peripheral equipment.
8. Installs network hardware/software.
9. Trains site personnel in proper use of hardware/software.
10. Builds specialized interconnecting cables.
11. May be responsible for installing deal-stack IPv4/Internet Protocol version 6 (IPv6) networks.

Job Specifications

High School Diploma or equivalent and two (2) years of general experience. There is no experience substitution for a High School Diploma; however, a G.E.D., other degree equivalency program, or a technical trade school certificate is acceptable. With a Bachelor's degree, no experience is required.

HARDWARE/SOFTWARE SPECIALIST I

General Summary

Reviews computer systems in terms of machine capabilities and man-machine interface. Prepares reports and studies concerning hardware/software for systems and applications such as ESRI, ArcGIS, ArcSDE, ArcServer, Image Server, Apache Tomcat, Virtual Desktop Infrastructure (VDI), Software delivered as a Service, and the Cloud Essential Infrastructure Stack (Hypervisor, Compute, Storage and Network).

Principal Duties and Responsibilities

1. Prepares functional requirements and specifications for hardware/software acquisitions.
2. Ensures that problems have been properly identified and solutions will satisfy the user's requirements.

Job Specifications

Bachelor's degree or equivalent. Six (6) years of general experience is considered equivalent to a Bachelor's degree.

HELP DESK MANAGER

General Summary

Manages the help desk function and personnel.

Principal Duties and Responsibilities

1. Provides daily supervision and direction to staff that are responsible for phone and in-person support to users in the areas of e-mail, directories, standard Windows desktop applications, and applications developed or deployed under this contract.
2. Serves as the first point-of-contact for troubleshooting hardware/software, PC, and printer problems.

Job Specifications

Bachelor's degree or equivalent and six (6) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree four (4) years of general experience is required. With a PhD, two (2) years of general experience is required.

HELP DESK SPECIALIST

General Summary

Serves as the initial point-of-contact for troubleshooting hardware/software, PC, and printer problems.

Principal Duties and Responsibilities

1. Provides phone and in-person support to users in the areas of e-mail, directories, standard Windows desktop applications, and applications developed under this contract or predecessors.

Job Specifications

Bachelor's degree or equivalent. Six (6) years of general experience is considered equivalent to a Bachelor's degree.

INFORMATION ENGINEER I

General Summary

Performs as an applications programmer on large-scale database management systems, knowledge of computer equipment, and ability to develop complex software to satisfy design objectives for requirements such as GIS data / metadata standards, Cloud Computing multi-tenancy data, data virtualization strategies for delivering Storage as a Service, and Platform as a Service information management

Principal Duties and Responsibilities

1. Analyzes application software and design specifications for information process activities.
2. Develops block diagrams and logic flow charts.
3. Translates detailed design into application software.
4. Tests, debugs, and refines the application software to produce the required product. Prepares required documentation, including both program-level and user-level documentation.
5. May serve as Tier 1 support to users and involved with trouble-shooting system operations.
6. Works under general supervision.

Job Specifications

Pursuing a Bachelor's degree or equivalent and one (1) year of general experience. Three (3) years of general experience is equivalent to pursuing a Bachelor's degree. With a Bachelor's degree, no experience is required.

INFORMATION ENGINEER II

General Summary

Works with Ada, SQL, JAVA, .NET, ArcXML, ArcIMS, ArcSDE, Oracle Spatial, third/fourth generation languages, XML, SOAP, REST, resource pooling, and rapid elasticity in the design and implementation of systems and using database management systems. Possesses ability to assume increasing responsibilities in information engineering activities. Knowledgeable of applicable standards and provides general technical support.

Principal Duties and Responsibilities

1. Analyzes and studies complex information system requirements.
2. Designs software tools and subsystems to support software reuse and domain analyses and manages their implementation.
3. Manages software development and support using formal specifications, data flow diagrams, other accepted design techniques and Computer Aided Software Engineering (CASE) tools.
4. Provides input to estimate software development costs and schedule. Reviews existing programs and assists in making refinements, reducing operating time, and improving current techniques.
5. May manage, coordinate, or install system upgrades. Uses diagnostic software to test and isolate ADPE to validate functionality.
6. May provide system analysis and integration and oversee system operations.
7. Often assists with monitoring system performance and security and sets up terminal/printer queues. Provides in-service support for proper use of system software, hardware, or applications and provides Tier 1 technical support for ADPE.
8. Works independently under minimal supervision.

Job Specifications

Bachelor's degree or equivalent and one (1) year of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, no experience is required.

INFORMATION ENGINEER III

General Summary

Performs information systems development, functional and data requirements analysis, systems analysis and design, programming, program design, program in .net and JAVA, system upgrades and documentation preparation. Implements information engineering projects, systems analysis, design and programming using CASE and IE tools and methods, systems planning, geospatial information management, Cloud Computing resource pooling for multi-tenancy planning, Cloud Computing Information Lifecycle Management, business information planning, and business analysis.

Principal Duties and Responsibilities

1. Applies business process improvement practices to re-engineer methodologies/principles and business process modernization projects.
2. Applies, as appropriate, activity and data modeling, transaction flow analysis, internal control and risk analysis and modern business methods and performance measurement techniques.
3. Assists in establishing standards for information systems procedures.
4. Develops and applies organization-wide information plans and models for use in designing and building integrated, shared software and database management systems.
5. Constructs logical business improvement opportunities consistent with corporate Information Management guiding principles, cost savings, and open system architecture objectives.
6. Manages planned projects for overall installation of application and network systems.
7. Develops action plans with milestones for system upgrades.
8. Provides technical leadership for analysis, integration and support of new products, interfaces and performance enhancements. Analyzes and resolves system software issues.
9. Administers accounts and system access as needed.
10. Assists with the development of training curriculum for customer orientation and use of new and improved systems.
11. Also assists with application customization through process analysis and workflow development including advising customers of database file & table configuration best practices.
12. Possesses the ability to work independently.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, three (3) years of general experience is required. With a PhD, one (1) year of general experience is required.

INFORMATION ENGINEER IV

General Experience

Performs systems management, development, functional and data requirements analysis, systems analysis and design, programming, program design, including GIS, spatial data, Cloud Computing federated and multi-tenant data and documentation preparation. Manages the implementation of information engineering projects and performs systems analysis, design and programming selecting CASE or IE tools and methods, e.g., Oracle CASE, IEF CASE, I-CASE. Works in the client/server environment and distributed environments based on SOA and Cloud Computing environments (Public, Private, Hybrid, Community). Utilizes managerial and supervisory skills. Prepares written and oral communications, including giving formal presentations to different audiences.

Principal Duties and Responsibilities

1. Applies an enterprise-wide set of disciplines for the management, planning, analysis, design and construction of information systems on an enterprise-wide basis or across a major sector of the enterprise.
2. Develops analytical and computational techniques and methodology for problem solutions.

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3. Performs enterprise-wide strategic systems planning, business information planning, business and analysis.
 4. Performs process and data modeling in support of the planning and analysis efforts using both manual and automated tools; such as Integrated Computer-Aided Software Engineering (I-CASE) tools.
 5. Applies reverse engineering and re-engineering disciplines to develop migration strategic and planning documents.
 6. Utilizes various methodologies, e.g., IDEF 0 process modeling and IDEF 1X data modeling.
 7. Manages and coordinates planned system and implementation activities including system upgrades, security, allocation of resources, availability, and in-service training.
 8. Manages tasks, priorities and objectives.
 9. Responsible for customer support and quality & timeliness of services.
 10. Provides daily supervision and direction to staff.

Job Specifications

Bachelor's degree or equivalent and seven (7) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, five (5) years of general experience is required. With a PhD, three (3) years of general experience is required.

INFORMATION ENGINEER V

General Summary

Performs information systems management, development, functional and data requirements analysis, geospatial data modeling, Cloud Computing data modeling, systems analysis and design, programming, program design, and documentation preparation. Manages the implementation of information engineering projects and experience in systems analysis, geospatial process workflow management, GIS system design, Cloud Computing Delivery/Deployment multi-tenant system design, creation of Cloud Services to provide data on demand and programming using CASE and IE tools and methods, e.g., Oracle CASE, IEF CASE, I-CASE. and distributed environments based on SOA and Cloud Computing environments (Public, Private, Hybrid, Community).. Utilizes managerial and supervisory skills. Prepares written and oral communications skills, including giving formal presentations to different audiences.

Principal Duties and Responsibilities

1. Applies an enterprise-wide set of disciplines for the management, planning, coordination, analysis, design, and construction of information systems on an enterprise-wide basis or across a major sector of the enterprise.
2. Develops analytical and computational techniques and methodology for problem solutions.
3. Performs enterprise-wide strategic systems planning, business information planning, business and analysis.
4. Performs process and data modeling in support of the planning and analysis efforts using both manual and automated tools; such as Integrated Computer-Aided Software Engineering (I-CASE) tools.
5. Applies reverse engineering and re-engineering disciplines to develop migration strategic and planning documents. Familiar with various methodologies, e.g., IDEF 0 process modeling and IDEF 1X data modeling.

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6. Controls and maintains technical documents.
 7. Provides daily supervision and technical guidance in software engineering and system operational techniques and automated support tools to local and remote supporting staff.
 8. Advises customers on database file and table build configuration best practices.
 9. Manages and coordinates planned system and implementation activities including system upgrades, security, allocation of resources, availability, and in-service training.
 10. Manages tasks, priorities and objectives.
 11. Assists in the development and implementation of site policies and procedures.
 12. May provide train-the-trainer and ad hoc report writing training and assistance.
 13. Responsible for customer support and quality & timeliness of services.

Job Specifications

Bachelor's degree or equivalent and nine (9) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, seven (7) years of general experience is required. With a PhD, five (5) years of general experience is required.

INFORMATION SYSTEMS ENGINEER

General Summary

Performs IT engineering work requiring systems analysis, design, application of standard techniques, procedures, and criteria in carrying out engineering tasks. Ability to follow engineering plans as well as installation and configuration guidelines. Requires exercising limited judgment on details of work and in making preliminary selections/adaptations of system engineering alternatives.

Principal Duties and Responsibilities

1. Provide site surveys, assessment and documentation of current network configuration and user requirements.
2. Design and optimize network topologies.
3. Define product specifications and evaluate technologies and products for implementation and integration within the customer environment.
4. Install and configure new products and develop installation schedules.
5. May be responsible for installing Internet Protocol version 6 (IPv6) networks and/or transitioning IPv4 networks to IPv6.

Job Specifications

Bachelor's degree in Engineering or related curriculum and three (3) years of experience. Five (5) years of specific job-related experience or eight (8) years of general experience may be substituted for a Bachelor's degree.

INTERNET/INTRANET SPECIALIST I

General Summary

Performs system analysis and design techniques for Internet or Intranet development, which may include Hypertext Markup Language (HTML), Hypertext Transfer Protocol (HTTP), Extensible Markup Language (XML), Internet Protocol version 6 (IPv6), Simple Object Access Protocol (SOAP), Representational State Transfer (REST), Web Services Description Language (WSDL), Universal Description, Discovery and Integration (UDDI), Web Services Security (WS-Security) standards and Common Gateway Interface (CGI).

Principal Duties and Responsibilities

1. Analyzes and develops Internet/Intranet application software processing wide range of capabilities, including numerous engineering, business, and network traffic management functions.
2. Works independently or under general direction.

Job Specifications

Bachelor's degree or equivalent and one (1) year of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, no experience is required.

INTERNET/INTRANET SPECIALIST II

General Summary

Performs system analysis and design techniques for Internet or Intranet development and distribution to remote sites using various technologies, which may include Hypertext Markup Language (HTML), Hypertext Transfer Protocol (HTTP), Extensible Markup Language (XML), Internet Protocol version 6 (IPv6), Simple Object Access Protocol (SOAP), Representational State Transfer (REST), Web Services Description Language (WSDL), Universal Description, Discovery and Integration (UDDI), Web Services Security (WS-Security) standards, , FrontPage, Safari, Internet Explorer, iPhone Software Development Kit (SDK) and Netscape software.

Principal Duties and Responsibilities

1. Develops and applies organization-wide information models for use in designing and building integrated, shared software, and database management systems.
2. Constructs sound, logical business improvement opportunities consistent with corporate Information Management guiding principles, cost savings, and open system architecture objectives.
3. Provides daily supervision and direction to junior staff.

Job Specifications

Bachelor's degree or equivalent and three (3) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, one (1) year of general experience is required. With a PhD, no experience is required.

INTERNET/INTRANET SPECIALIST III

General Summary

Performs an enterprise-wide set of disciplines for planning, analysis, design, and construction of information systems on an enterprise-wide basis or across a major sector of the enterprise. Develops analytical and computational techniques and methodology for problem solutions. May be responsible for designing new Internet

Protocol version 6 (IPv6) systems and/or planning transition from IPv4 to IPv6. May be responsible for designing inter and/or intra Cloud Computing data federation. Knowledgeable in WS-Security standards as well as Cloud Computing Security tenants.

Principal Duties and Responsibilities

1. Establishes system information requirements, using analysis of the information exchange technologies, in the development of enterprise-wide or large-scale information systems.
2. Designs architecture to include the software, hardware, and communications to support the total requirements as well as provide for present and future cross-functional requirements and interfaces.
3. Ensures these systems are compatible and in compliance with the standards for open systems architectures, the Open Systems Interconnection (OSI), and International Standards Organization (ISO) (These are the same thing. It is the ISO OSI model) reference models, and profiles of standard such as: Institute of Electrical and Electronic Engineers (IEEE), Open Systems Environment (OSE) reference model, and across the application program interface (API). Provides daily supervision and direction to staff.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, three (3) years of general experience is required. With a PhD, one (1) year of general experience is required.

JR. ENTERPRISE CONSULTANT

General Summary

Deploys enterprise-wide and Cloud Computing system management tools. Performs ongoing operations issues and possesses the capability to manage systems. Has a good understanding of complex, multi-platform information technology (IT) infrastructure operations, processes and tools. Deploy architected solution and ability to solve unanticipated complications in the field such as GIS data and metadata standards, GIS application design, geospatial data integration, geospatial data models, Cloud Computing Deployment Models (Public, Private, Hybrid, Community), and Cloud Computing Delivery Models (SaaS, PaaS, IaaS). Also familiar with Hypervisors, and virtual image management.

Principal Duties and Responsibilities

1. Deploy and document enterprise management under the supervision of the project technical lead.
2. Perform integration work for a variety of systems, network and help desk tools.
3. Understand functionally of tools selected for implementation and hardware and software administrative knowledge.
4. May be responsible for deploying new Internet Protocol version 6 (IPv6) networks and/or transitioning from IPv4 to IPv6.
5. May perform other duties as assigned

Job Specifications

Bachelor's degree or equivalent. With a Bachelor's degree, no experience is required. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree no experience is required.

JR. FUNCTIONAL SPECIALIST

General Summary

Develops functional requirements relating to complex integrated information technology systems.

Principal Duties and Responsibilities

1. Develop and provide skills and disciplines on a variety of information technology issues.
2. Assist the Functional Specialist.
3. Specialized skills include, but are not limited to, information planning, communications, systems administrations, quality assurance, video teleconferencing and microcomputer training.

Job Specifications

High School Diploma and five (5) years of experience.

JR. PROGRAMMER ANALYST

General Summary

Works under supervision to support the activities of a Programmer Analyst. Assists in the support of the maintenance and operating efficiency of a major system, such as the teleprocessing network, database management system, and also can support ArcXML, ArcServer, ArcIMS, Apache TomCat, JAVA, Web-Based GIS Applications using .NET or JAVA, GIS data conversion, digitizing, GIS programmer, Arc Object Model, and geocoding.

Principal Duties and Responsibilities

1. Assists programmer analysts in the assessment of the performance of appropriate software systems to identify and correct problems that impact operation and work quality.
2. Assists in analyzing performance indicators such as system response time and number of programs being processed to ensure operational efficiency.
3. Codes, in accordance with specific design parameters, system software modules as directed by the Programmer Analyst.
4. Assists in the identification, evaluation, customizing and implementation of vendor-supplied software packages.
5. Assists in the support of special systems regenerations, where applicable, to reflect changes in peripheral configurations.
6. Assists the Programmer Analyst in end user training in applications programming and other user personnel in the use of systems software and related hardware.
7. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent. Six (6) years of general experience is considered equivalent to a Bachelor's degree.

JR. SYSTEMS ANALYST

General Summary

Under supervision, performs systems analysis of computer and communications/network systems. Supports the installation of computer operating systems, including GIS platforms network, and application software, computer/network hardware, hypervisors and other Cloud Computing infrastructure components, SOA software (ESBs, Web Servers, Business Process Software, Portal Servers). Provides hotline support to customers. Possesses troubleshooting skills to assist Systems Analysts, spatial data conversions and distributed computer systems.

Principal Duties and Responsibilities

1. Performs systems analysis of computer and networking systems.
2. Supports a Systems Analyst, as required.
3. Technically supports the overall integration of all systems peripherals so that they operate correctly within a predefined environment.
4. Provides hotline support to customers.
5. Develops technical documentation detailing the installation procedures.
6. May perform other duties, as assigned.

Job Specifications

Bachelor's degree or equivalent and two (2) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, no experience is required.

JR. SYSTEMS ENGINEER

General Summary

Under supervision, assists in defining and executing systems engineering activities within a project. These activities may consist of systems planning, information security planning, geospatial design and management, SOA and Cloud Computing architecture, performance management, capacity planning, testing and validation, risk assessment, system assessment, gap analysis, benchmarking, information engineering, and development and staffing of a systems engineering or security management plan.

Principal Duties and Responsibilities

1. Performs systems engineering planning, information security planning, performance management, capacity planning, testing and validation, risk assessment, benchmarking, information engineering, security impact analysis.
2. Development and staffing of a systems engineering or security management plan.
3. Supports a Systems Engineer, as required.
4. Analyzes and develops technical documentation detailing the integration and system performance or information security.
5. May analyze security implications of authentication and authorization of Cloud based services spanning all the Delivery Models (SaaS, PaaS, IaaS).
6. May analyze security implications of transitioning from IPv4 to Internet Protocol version 6 (IPv6).
7. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and two (2) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, no experience is required.

LAN/WAN AIS SPECIALIST

General Summary

Works independently in support of client requirements. Installs, generates, maintains, tests, and debugs system software programs, develops instructions for use of operating system software, and modifies/maintains system software packages via releases and utilities from manufacturers.

Principal Duties and Responsibilities

1. Evaluate existing operating software and recommend changes.
2. Optimize systems software performance.
3. Responsible for applications dealing with the overall operating LAN/WAN system including sophisticated file maintenance routines, communications, networks, CAD or GIS systems software, or mathematical/scientific software packages.
4. Engineer highly complex software that may relate directly to operating systems, their performance, or devices.
5. Develop, expand and maintain Local Area Networks (LAN's), Wide Area Networks (WAN), and the necessary software coding to provide security, archiving (backup) and interconnectivity to host systems both local and remote.
6. Provide user support including preparing and disseminating technical direction and definition for systems use and for new/changed applications.
7. Provide highly complex network design, implementation, and system maintenance, including managing a multitude of equipment, systems, and software programs.
8. Prepare and edit FIP documentation incorporating information provided by user, specialist, analyst, programmers and operations personnel.
9. Interpret technical documentation standards and preparation of documentation according to supplied standards.
10. Plan and conduct feasibility studies for communications systems which would be required to accommodate modified or additional communications requirements which could be accommodated by existing or modified systems.
11. Provide input and technical recommendations and definition concerning designs and design modifications to include writing, editing, and making presentations of technical information for technical and non-technical personnel.
12. Serve as technical resource for remote locations and provide technical advice on the implementation and on-going operations of highly complex, multi-state LAN/WAN operating systems and have in-depth knowledge of office automation with specific knowledge of microcomputers, word-processing, electronic communications systems network design and concepts, and related software and systems designs.
13. May be responsible for installing Internet Protocol version 6 (IPv6) networks and/or transitioning IPv4 to IPv6.

Job Specifications

A Bachelor's degree in Computer Science or related field; or a high school graduate with an active Novell Certified Network Engineer (CNE) and/or an active Microsoft Certified Network Engineer or Cisco certification. Five (5) years general experience in various network technologies for LAN and WAN servers, and microcomputer technology. Three (3) years of experience in various network operating systems and complex LAN/WAN systems utilizing a complex multi- platform environment consisting of file servers, PCs, minicomputers and related peripherals operating through DOS, Windows and UNIX environments. Network experience shall have included support the IEEE (Institute of Electrical and Electronic Engineers) 802.3, 802.4, or 802.5 standards. Experience with routers, switches, hubs and infrastructure of LAN/WAN. If proposed as Task Leader, twelve (12) months in supervision/management of ADP support activities. Five (5) years of specific job-related experience or eight (8) years of general related experience may be substituted for the Bachelor's degree requirement

LEAD/SR. DATA ENTRY CLERK

General Summary

Works independently or as a task leader to perform data entry, including verification where applicable. Work requires application of experience and judgment in selecting procedures to be followed in searching for, interpreting, selecting or coding items to be input from a variety of complex source documents.

Principal Duties and Responsibilities

1. Design and implement special screen formats for specific input requirements.
2. Input data from numerous types of source documents requiring various complex formats.
3. Perform routine data preparation and distribution when incidental to data entry tasks.

Job Specifications

High School Diploma or equivalent and three (3) years' experience in data entry and verification via various input devices, such as keypunch, key- to-tape, key-to-disk, or other input devices. If assigned task or functional lead position, twelve (12) months of experience supervising data entry personnel. Directly related technical education/training may be substituted on the basis of one (1) month of training for one (1) month of general experience not to exceed twelve (12) months. No further substitution of education for experience is permitted.

MICROCOMPUTER SPECIALIST

General Summary

Works independently or as a functional leader in support of client technical areas.

Principal Duties and Responsibilities

1. Responsibilities include, but are not limited to providing one or more of the following: evaluating, analyzing, planning and implementing the testing and installation of new or enhanced hardware and software for microcomputers.
2. Evaluate client training requirements in the use of installed and planned hardware, commercial off-the-shelf software, and network products, develops and provides training applicable to those requirements.
3. Configure DOS and applications software and interface for microcomputers to be used in conjunction with other computer hardware and various systems such as networks, CAD, digitizing devices.

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4. May be required to analyze requirements and implement solutions for facility management applications in a specified media.
 5. Identify problems and resolve minor hardware/software/network malfunctions; provide minor hardware maintenance such as board replacement, cable switching, communications assistance, hardware replacement, installing CRIS, printers.
 6. Perform preventive maintenance for hardware and software such as equipment cleaning and vacuuming, cable/ connection inspection, software virus protection, and configuration integrity.

Job Specifications

High School Diploma or equivalent and two (2) years general experience in microcomputer applications. This includes specific experience in the disciplines listed under duties and responsibilities. If proposed as Task Leader, twelve (12) months in supervision/management of ADP support activities.

NETWORK ARCHITECT

General Summary

Has broad, high-level knowledge of telecommunications, SOA and Cloud Computing network architectures for Government applications. Possesses the capability to direct, design, or develop network architecture plans, implementation or cutover plans, integration plans, or interoperability plans based on different telecommunications and business environments. Has the ability to use experience and technical judgment to reach conclusions in the face of limited and/or uncertain data. Able to develop network architecture Requests for Proposals (RFPs) and to evaluate responses to RFPs. Supervises or manages the network architecture planning and is considered a leading expert in the field. Capable of supervising multiple teams of specialty Engineers working on highly complex network architecture projects.

Principal Duties and Responsibilities

1. Provides lead analysis for translating customer needs into the design of networks.
2. Provides leadership or direction on innovative research associated with the development of network architectures.
3. Performs management responsibilities for a program or staff for network architecture projects.
4. Provides in-depth analysis on network interoperability, topologies, technologies, interfaces, and protocols.
5. May be responsible for designing the Cloud Computing Network stack to enable broad network access to ensure on-demand self-services across Cloud Deployment Models (Public, Private, Community, Hybrid).
6. May be responsible for designing virtual network as service and the network for Cloud Optimized Storage.
7. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
8. May perform other duties as required.

Job Specifications

A Doctorate in Computer Science, Electrical or Electronics Engineering, Information Systems, or equivalent and eight (8) years general work experience in telecommunications. A Master's degree in Computer Science, Electrical or Electronics Engineering, Information Systems, or equivalent and ten (10) years of experience or a Bachelor's degree in Computer Science, Electrical

Engineering, Information Systems, or equivalent and twelve (12) years of experience are considered equivalent to a Doctorate and eight (8) years of experience.

NETWORK ARCHITECTURE ENGINEER I

General Summary

Has knowledge in one or more aspects of telecommunications, SOA and Cloud Computing network architectures for Government applications. May possess broad knowledge in network integration, network interoperability, network implementation, Cloud Computing infrastructure, Cloud Computing Deployment Models (SaaS, PaaS, IaaS), telecommunications technologies, or network protocols. Capable of working, with supervision, on specific tasks associated with specific aspects of network architecture projects.

Principal Duties and Responsibilities

1. Provides assistance and performs general technical tasks for network architecture planning.
2. Provides support for one or more specific areas associated with network-architecture technology, interoperability, or integration.
3. Supports the development of technical analyses, white papers, or research for specific technical areas of network architecture.
4. Assists in general analysis on network interoperability topologies, technologies, interfaces, and protocols.
5. May be responsible for designing the Cloud Computing Network stack to enable broad network access to ensure on-demand self-services across Cloud Deployment Models (Public, Private, Community, Hybrid).
6. May be responsible for designing virtual network as service and the network for Cloud Optimized Storage.
7. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
8. May perform other duties as required.

Job Specifications

Bachelor's degree in Electrical/Electronics Engineering, Computer Science, or Information Systems. Eight (8) years of experience in telecommunications network architectures may be substituted for a Bachelor's degree.

NETWORK ARCHITECTURE ENGINEER II

General Summary

Has knowledge in one or more aspects of telecommunications, SOA and Cloud Computing network architectures for Government applications.. May possess broad knowledge in network integration, network interoperability, network implementation, Cloud Computing infrastructure, Cloud Computing Deployment Models (SaaS, PaaS, IaaS), telecommunications technologies, or network protocols. Capable of independent work on specific tasks associated with the implementation of specific aspects of network architecture projects and is capable of providing limited guidance or supervision of Engineers working on highly complex network architecture projects.

Principal Duties and Responsibilities

1. Provides general support for network architecture planning.
2. Provides technical support in one or more specific areas associated with network-architecture technology, interoperability, or integration.

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3. Provides support for the development of technical analyses, white papers, or research for specific technical areas of network architecture.
 4. Provides general analyses on network interoperability topologies, technologies, interfaces, and protocols.
 5. May be responsible for designing the Cloud Computing Network stack to enable broad network access to ensure on-demand self-services across Cloud Deployment Models (Public, Private, Community, Hybrid).
 6. May be responsible for designing virtual network as service and the network for Cloud Optimized Storage.
 7. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
 8. May perform other duties as required.

Job Specifications

A Master's degree in Computer Science, Electrical or Electronics Engineering, Information Systems, or equivalent and one (1) year experience. A Bachelor's degree in Computer Science, Electrical Engineering, Information Systems, or equivalent and two (2) years general work experience is considered equivalent to a Master's degree and one (1) years' experience. With a PhD, no experience is required.

NETWORK ARCHITECTURE ENGINEER III

General Summary

Has in-depth knowledge of multiple aspects of telecommunications, SOA and Cloud Computing network architectures for Government applications. May possess subject matter expertise in network integration, network interoperability, network implementation, Cloud Computing infrastructure, Cloud Computing Deployment Models (SaaS, PaaS, IaaS), telecommunications technologies, or network protocols. Has the ability to use experience and technical judgment to reach conclusions in the face of limited and/or uncertain data. Supervises or manages the implementation of specific aspects of network architecture planning and is capable of supervising a team of specialty Engineers working on highly complex network architecture projects.

Principal Duties and Responsibilities

1. Provides lead specialty engineering for a specific technology area associated with network architectures.
2. Provides technical support in one or more specific areas associated with network-architecture technology, interoperability, or integration.
3. Performs technical lead management responsibilities for specific technical areas of network architecture projects.
4. Provides in-depth analyses on network interoperability, topologies, technologies, interfaces, and protocols.
5. May be responsible for designing the Cloud Computing Network stack to enable broad network access to ensure on-demand self-services across Cloud Deployment Models (Public, Private, Community, Hybrid).
6. May be responsible for designing virtual network as service and the network for Cloud Optimized Storage.
7. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
8. May perform other duties as required.

Job Specifications

A Doctorate in Computer Science, Electrical or Electronics Engineering, Information Systems or equivalent, and six (6) years general work experience in telecommunications. A Master's degree in Computer Science, Electrical or Electronics Engineering, Information Systems, or equivalent and eight (8) years of experience or a Bachelor's degree in Computer Science, Electrical Engineering, Information Systems or equivalent and ten (10) years of experience is considered equivalent to a Doctorate and six (6) years of experience.

NETWORK ENGINEER

General Summary

Under supervision performs a variety of network engineering tasks that are broad in nature and are concerned with the design and implementation of integrated networks, including personnel, hardware, software and support facilities and/or equipment. Performs with some latitude for unreviewed actions and decisions.

Principal Duties and Responsibilities

1. Plans and performs network engineering research, design development, and other assignments in conformance with network design, engineering and customer specifications.
2. Responsible for the technical/engineering part of a major project or a project of lesser complexity and importance than those normally assigned to a higher level engineer.
3. Coordinates the activities of Network Technicians assigned to specific network engineering projects.
4. May be responsible for designing the Cloud Computing Network stack to enable broad network access to ensure on-demand self-services across Cloud Deployment Models (Public, Private, Community, Hybrid).
5. May be responsible for designing virtual network as service and the network for Cloud Optimized Storage.
6. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
7. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and three (3) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, one (1) year of general experience is required. With a PhD, no experience is required.

NETWORK MANAGEMENT ENGINEER I

General Summary

Has knowledge and experience architecting and configuring Commercial Off The Shelf (COTS) Network Management solutions (i.e., Tivoli, Computer Associates, HP OpenView) for Government applications. Typically has knowledge of one or more flavors of Unix and leading hardware vendors' products on which the Network Management platform would run. Capable of working, with supervision, on specific aspects of network management engineering.

Principal Duties and Responsibilities

1. Provides assistance to the design, development, and deployment of fault and performance network management systems that provide the required trouble isolation and identification required for the applications.

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2. Supports the identification of deficiencies in existing Network Management platforms and proposes solutions that mediate these problems.
 3. Supports customizations to existing Network Management implementations to reduce the interval from identification of a fault to problem resolution.
 4. Supports the integration of multiple COTS vendor products into a seamless operation for a given Cloud Deployment Model (SaaS, PaaS, IaaS).
 5. Supports integration of multiple COTS vendor products into a seamless operation for a Network Operations Center (NOC).
 6. Supports knowledge transfer to NOC personnel or other individuals charged with the maintaining the environment being monitored by the Network Management solution.
 7. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
 8. May perform other duties as required.

Job Specifications

A Bachelor's degree in Computer Science, Electrical Engineering, Information Systems or equivalent. Eight (8) years of experience in telecommunications network management may be substituted for a Bachelor's degree.

NETWORK MANAGEMENT ENGINEER II

General Summary

Has broad in-depth knowledge and several years of experience in architecting and configuring Commercial Off The Shelf (COTS) Network Management solutions (i.e., Tivoli, Computer Associates, HP OpenView) for Government applications. Typically has knowledge of one or more flavors of Unix and leading hardware vendors' products on which the Network Management platform would run.

Principal Duties and Responsibilities

1. Designing, developing, and deploying a fault and performance network management system that provides the required trouble isolation and identification required for the applications.
2. Identifying deficiencies in existing Network Management platforms and proposing solutions that mediate these problems. May include identification of COTS platforms that are currently not deployed.
3. Providing customizations to existing Network Management implementations to reduce the interval from identification of a fault to problem resolution.
4. Supports the integration of multiple COTS vendor products into a seamless operation for a given Cloud Deployment Model (SaaS, PaaS, IaaS).
5. Integration of multiple COTS vendor products into a seamless operation for a Network Operations Center (NOC).
6. Knowledge transfer to NOC personnel or other individuals charged with the maintaining the environment being monitored by the Network Management solution.
7. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
8. May perform other duties as required.

Job Specifications

A Master's degree in Computer Science, Electrical Engineering, Information Systems or equivalent and 3 or more years of experience in Network Management platforms. A Bachelor's degree in Computer Science, Electrical Engineering, Information Systems or equivalent and five (5) years general work experience (of which three (3) years have been spent on Network Management) is considered equivalent to a Master's degree and three (3) years of experience. With a PhD, one (1) year of general experience is required.

NETWORK MANAGEMENT ENGINEER III

General Summary

Has broad in-depth knowledge and several years' leadership experience in architecting and configuring Commercial Off The Shelf (COTS) Network Management solutions (i.e., Tivoli, Computer Associates, HP OpenView) for Government applications. Typically has knowledge of one or more flavors of Unix and leading hardware vendors' products on which the Network Management platform would run. Has the ability to use experience and technical judgment to reach conclusions in the face of limited and/or uncertain data. Supervises or manages the implementation of specific aspects of network management engineering and is capable of supervising a team of technical specialists working on complex projects.

Principal Duties and Responsibilities

1. Provides technical lead for designing, developing, and deploying a fault and performance network management system that provides the required trouble isolation and identification required for the applications.
2. Provides leadership to identify deficiencies in existing Network Management platforms and proposes solutions that mediate these problems. May include identification of COTS platforms that are currently not deployed.
3. Provides leadership for customizations to existing Network Management implementations to reduce the interval from identification of a fault to problem resolution.
4. Supports the integration of multiple COTS vendor products into a seamless operation for a given Cloud Deployment Model (SaaS, PaaS, IaaS).
5. Provides leadership for integration of multiple COTS vendor products into a seamless operation for a Network Operations Center (NOC).
6. Leads team performing knowledge transfer to NOC personnel or other individuals charged with the maintaining the environment being monitored by the Network Management solution.
7. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
8. May perform other duties as required.

Job Specifications

A Doctorate in Computer Science, Electrical Engineering, Information Systems or equivalent and six (6) years of experience in Network Management platforms. A Master's degree in Computer Science, Electrical Engineering, Information Systems or equivalent and eight (8) years general work experience (of which four (4) years have been spent on Network Management) is considered equivalent to a Doctorate and six (6) years of experience.

NETWORK OPERATIONS ANALYST/TECHNICIAN (SR.)

General Summary

Provides senior level technical direction and manages large complex network operations involving legacy systems and state-of-the-art technology. Must be capable of performing at a very senior level in an environment with multiple network topologies and protocols as well as multiple operating systems

Principal Duties and Responsibilities

1. Operate and maintain large complex enterprise telecommunications networks.
2. Evaluate existing networks to identify deficiencies and recommend performance improvements.
3. Consult with user personnel to ensure that problems have been properly identified and that the proposed solution will ensure proper resolution.
4. Analyze network performance, usage and traffic flows, accesses and interfaces, transmission techniques, and protocols. May be required to prepare studies on network performance and give presentations on communications concepts and recommended improvements.
5. Provide technical direction to other network personnel concerning data communications, front-end devices, simulation and queuing analysis, and the configuration, integration, and testing of complex large-scale computer integrated networks.
6. Participate in the preparation of specifications for acquiring commercially available communications networks.
7. Work independently or as a team leader to ensure the integrity of multiple complex network systems.
8. Analyze new software releases and hardware upgrades to determine impact on existing components.
9. Perform complex diagnostic testing, analysis and optimization of all components of the network including power, communications, hardware, lines, modems, and workstations. Perform systems testing and optimization of software components.
10. Plan installations, transitions, and cutovers of network components and capabilities.
11. Analyze network characteristics such as traffic, transmission speeds, and throughput.
12. Review communications networks as to their ability to support current requirements and develop methodology for utilizing new technology to perform existing activities more effectively.
13. Recommend network security procedures, including new procedures to secure Internet Protocol version 6 (IPv6).
14. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.

Job Specifications

A Bachelor's degree in Computer Science or related field and Seven (7) years of progressive ADP and/or network experience. Three (3) years of experience in implementing and maintaining complex telecommunication systems, including: developing and testing communications software interface programs; developing specifications; using protocol interfaces for multiple environments. If proposed as a Task Leader, twelve (12) months experience supervision of activities similar to those included in the specific task to which assigned. A NOS specific and/or other additional professional certification may also be required if necessary to meet task requirements. Five (5) years of specific job related experience or eight (8) years of general related experience may be substituted for the Bachelor's degree requirement or a Master's degree in an appropriate discipline may be substituted for two (2) years of general experience and one (1) year of specialized experience.

NETWORK TECHNICIAN

General Summary

Works under supervision to perform a variety of network engineering tasks which are broad in nature and are concerned with the design and implementation of integrated networks, including personnel, hardware, software and support facilities and/or equipment. Works under the supervision of a Sr. Network Engineer or Network Engineer.

Principal Duties and Responsibilities

1. Supports the planning and performance of network engineering research, design development, and other assignments in conformance with network design, engineering, and customer specifications.
2. Supports the technical/engineering part of a networking project assigned to higher level engineers.
3. Works under the supervision of a Sr. Network Engineer or Network Engineer.
4. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
5. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent, or High School Diploma and five (5) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. There is no experience substitution for a High School Diploma; however, a G.E.D. or other degree equivalency program is acceptable.

OPERATIONS MANAGER

General Summary

Manages computer operations. Ensures production schedules are met. Ensures computer system resources are used effectively.

Principal Duties and Responsibilities

1. Coordinates the resolution of production-related problems.
2. Ensures proper relationships are established between customers, teaming partners, and vendors to facilitate the delivery of information technology services.
3. Provides users with computer output. Supervises staff operations.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, three (3) years of general experience is required. With a PhD, one (1) year of general experience is required.

PRODUCTION CONTROL SPECIALIST

General Summary

Provides support necessary to manage a medium to large-scale computer system in the area of execution toward delivery of final product utilizing a predefined and documented set of procedures and directions.

Principal Duties and Responsibilities

1. Analyze system input data to determine applicability to client requirements.
2. Develop procedures to determine validity of reports produced during system execution. Analyze error transactions to determine corrective action.
3. Develop simple ad hoc programs using a state-of-the-art retrieval system when input is provided through predefined parameters and operations scheduling and/or computer data library functions.

Job Specifications

High School Diploma or equivalent and two (2) years of experience in ADP Systems Analysis/Programming, ADP operations, production control/support activities, etc. Specialized: Six (6) months experience in an ADP Scheduling/Production environment or equivalent ADP support function. Directly related technical education/training may be substituted based on one (1) month of training for one (1) month of experience not to exceed six (6) months. No further substitution of education for experience is permitted.

PROGRAM MANAGER

General Summary

Directs the performance of a variety of related projects, which may be organized by technology, program, or client. Oversees the technology development and/or application, marketing, and resource allocation within program client base. Program areas typically represents more than three functional areas that may include engineering, GIS and geospatial, systems analysis, quality control, administration, etc.

Principal Duties and Responsibilities

1. Responsible for the effective management of funds and personnel, and is accountable for the quality and timely delivery of all contractual items.
2. Operates within client guidance, contractual limitations, and Company business and policy directives.
3. Serves as focal point-of-contact with client regarding program activities.
4. Ensures that all required resources including manpower, production standards, computer time, and facilities are available for program implementation.
5. Manages program consisting of multiple projects including project identification, design, development, and delivery.
6. Maintains the development and execution of business opportunities based on broad, general guidance.
7. Confers with project manager to provide technical advice and to assist with problem resolution.
8. Responsible for marketing new technology and follow-on business acquisitions.
9. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and ten (10) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, eight (8) years of general experience is acceptable. With a PhD, six (6) years of general experience is required.

PROGRAMMER ANALYST

General Summary

Works under supervision to support the activities of a Sr. Programmer Analyst. Supports the maintenance and operating efficiency of a major subsystem, such as the teleprocessing network, GIS spatial data integration, database management systems, etc.

Principal Duties and Responsibilities

1. Support the continual assessment of the performance of appropriate software systems to identify and correct problems that impact operation efficiency and work quality.
2. Analyzes performance indicators such as system's response time and number of programs being processed to ensure operational efficiency.
3. Designs, codes, installs, and maintains appropriate systems software program.
4. Supports the identification, evaluation, customizing and implementation of vendor-supplied software packages.
5. Supports special system regenerations where applicable to reflect changes in peripheral configuration.
6. Ensures the maintenance of adequate software systems documentation.
7. Trains users in applications programming and other user personnel in the use of systems software and related hardware.
8. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and two (2) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, no experience is required.

PROJECT CONTROL SPECIALIST

General Summary

Oversees financial management and administrative activities, such as budgeting, manpower resource planning, and financial reporting.

Principal Duties and Responsibilities

1. Performs complex evaluations of existing procedures, processes, techniques, models, and/or systems related to management problems or contractual issues, which would require a report and recommend solutions.
2. Develops work breakdown structures, prepare charts, tables, graphs, and diagrams to assist in analyzing problems.
3. Provides daily supervision and direction to staff.

Job Specifications

Bachelor's degree or equivalent. Six (6) years of general experience is considered equivalent to a Bachelor's degree.

QUALITY ASSURANCE ANALYST

General Summary

Establishes and maintains a process for evaluating systems and associated documentation. Determines the resources required for quality control. Maintains the level of quality throughout the project life cycle.

Principal Duties and Responsibilities

1. Conducts formal and informal reviews at pre-determined points throughout the development life cycle.
2. Provides technical and administrative direction for personnel performing systems development tasks, including the review of work products for correctness, adherence to the design concept and to user standards, review of program documentation to assure government standards/requirements are adhered to, and for progress in accordance with schedules.
3. Coordinates with the Project Manager to ensure problem solution and user satisfaction.
4. Makes recommendations, if needed, for approval of major systems installations.
5. Prepares milestone status reports and deliveries/presentations on the system concept to colleagues, subordinates, and end user representatives.

Job Specifications

Bachelor's degree or equivalent and two (2) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, no experience is required.

SR. ENTERPRISE CONSULTANT

General Summary

Technical subject matter expert for enterprise-wide system management tools and operations. Broad understanding of complex, multi-platform information technology (IT) infrastructure operations, hardware, software, processes and tools. Develops detailed design documents for multiple platform three tiered client server environments including geospatial definition and design. Architect solutions for systems management tools and oversees project implementation. Also has a good understanding of Cloud Deployment Models (Public, Private, Hybrid, Community), Cloud Delivery Services (Software as a Service [SAAS], Platform as a Service [PAAS] and Infrastructure as a Service [IAAS]), hypervisors and virtualization.

Principal Duties and Responsibilities

1. Design and document enterprise management solutions for complex heterogeneous IT environments.
2. Architect solutions that integrate systems, network and help desk tools into an integrated IT solution.
3. Provide hardware and software tool selection analysis and recommendations.
4. Manages technical teams with diverse areas of specialization to implement multiple software management tools either sequentially or in parallel.
5. Confers with project manager to provide technical advice and to assist with problem resolution.
6. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
7. May perform other duties as assigned

Job Specifications

Bachelor's degree or equivalent and twelve (12) years of general experience Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, six (6) years of general experience is acceptable. With a PhD, four (4) years of general experience is required.

SR. INFORMATION SYSTEMS ENGINEER

General Summary

Conduct IT engineering work requiring judgment in the evaluation, selection, adaptation and/or modification of standard techniques, procedures and criteria. Develop new approaches to problem solving. Independently performs assignments with instructions as to the general results expected. Supports GIS and geospatial information and metadata standards. Receives technical guidance on unusual or complex problems and supervisor approval for all projects. May supervise other engineers or technicians on assigned work.

Principal Duties and Responsibilities

1. Implement engineering principles, techniques and processes.
2. Determine product specifications and evaluate technologies for implementation and integration within the customer parameters.
3. Document the results of complex analysis and design tasks.
4. Design moderate to complex systems; assist in developing standards and techniques.
5. Formulate and document alternative methodologies for achieving customer objectives. Also defines system architectures and infrastructures to provide required functionality.

Job Specifications

Bachelor's degree in Engineering or a related curriculum and ten (10) years of experience. Five (5) years of specific job-related experience or eight (8) years of general experience may be substituted for a Bachelor's degree.

SR. MICROCOMPUTER SPECIALIST

General Summary

Primary interface with vendor support service groups. Provides internal analysis and support to ensure proper escalation during outages or periods of degraded system performance. Monitors and responds to a variety of hardware and software testing tools and techniques.

Principal Duties and Responsibilities

1. Provide LAN server support.
2. Requires extensive knowledge of PC/LAN communications hardware and software in multi-protocol environment, and networks management software.
3. Work independently or as a functional leader to provide level support of client technical areas.
4. Will have responsibility for providing one or more of the following: Evaluating, analyzing, planning and implementing the testing and installation of new or enhanced hardware and software for microcomputers.

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5. Evaluate client training requirements in the use of installed and planned hardware, commercial off-the-shelf software, and network products, develop and provide training applicable to those requirements.
 6. Configure multiple operating systems and applications software and interfaces for microcomputers to be used in conjunction with other computer hardware and various systems such as networks, CAD, digitizing devices.
 7. May be required to analyze requirements and implement solutions for facility management applications in a specified media.

Job Specifications

High School Diploma or equivalent and five (5) years of experience in microcomputer systems support. Two (2) years of experience working with a variety of hardware and software designated for task performance. If proposed as Task Leader, twelve (12) months experience supervising microcomputer activities.

SR. NETWORK ENGINEER

General Summary

Performs a variety of network engineering tasks, either independently or under supervision, which are broad in nature and are concerned with the design and implementation of integrated networks, including personnel, hardware, software, and support facilities and/or equipment. Supervises team of Network Engineers through project completion.

Principal Duties and Responsibilities

1. Plans and performs network engineering research, design development, and other assignments in conformance with network design, engineering and customer specifications.
2. Supervises team of Network Engineers through project completion.
3. Responsible for major technical/engineering projects of higher complexity and importance than those normally assigned to lower level engineers.
4. Coordinates the activities of Network Engineers and Network Technicians assigned to specific network engineering projects.
5. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
6. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and six (6) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, four (4) years of general experience is required. With a PhD, two (2) years of general experience is required.

SR. NETWORK INSTALLATION TECHNICIAN

General Summary

Organizes and directs network installations and site surveys.

Principal Duties and Responsibilities

1. Assesses and documents current site network configuration and user requirements.

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2. Designs and optimizes network topologies.
 3. Directs and leads preparation of engineering plans and site installation Technical Design Packages.
 4. Develops installation schedules.
 5. Mobilizes network installation team.
 6. Directs and leads preparation of drawings documenting configuration changes at each site.
 7. Prepares site installation and test reports.
 8. Coordinates post-installation operations and maintenance support.
 9. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.

Job Specifications

High School Diploma or equivalent and five (5) years of general experience. There is no experience substitution for a High School Diploma; however, a G.E.D., other degree equivalency program, or a technical trade school certificate is acceptable. With a Bachelor's degree, three (3) years of general experience is required. With a Master's degree, one (1) year of general experience is required.

SR. OPERATING SYSTEMS SOFTWARE ANALYST/PROGRAMMER

General Summary

Works independently on highly complex operating systems analysis/programming projects using programming languages.

Principal Duties and Responsibilities

1. Install, generate, maintain, test and debug system software programs.
2. Develop instructions for use of operating systems software and modifies/maintains system software packages via releases and utilities from manufacturers.
3. Evaluate existing operating systems software and recommends changes.
4. Optimize systems software performance.
5. Responsible for applications dealing with the overall operating system, such as sophisticated file maintenance routines, networks, CAD or GIS system software, such as ArcSDE, ArcIMS, ArcGIS and Oracle Spatial or mathematical/scientific software packages.
6. Engineer highly complex software such as may relate directly to operating systems, their performance, or controlled devices.
7. Prepare and edit FIP documentation incorporating information provided by user, specialist, analyst, programmer, and operations personnel.
8. Interpret technical documentation standards and prepare documentation according to supplied standards.
9. Other duties may include writing, editing and/or graphic presentation of technical information for both technical and non-technical personnel.

Job Specifications

High School Diploma or equivalent and six (6) years of experience in operating systems programming and/or analysis. Three (3) years of experience working independently on highly complex operating systems analysis/programming projects using programming languages. Directly related college-level study may be substituted for general experience at a rate of one (1) year of study for six (6) months of experience. No more than

four (4) years of study may be substituted for experience. If proposed as a Task Leader, twelve (12) months experience in supervision/management of ADP Support Activities.

SR. PROGRAM MANAGER

General Summary

Directs the performance of a variety of highly technical projects that may be organized by technology, program or client. Oversees the technology development and/or application enterprise and multi-agency geospatial project design, marketing, and resource allocation within program client base. Program areas typically include engineering, integration, test, systems analysis, quality assurance, etc.

Principal Duties and Responsibilities:

1. Responsible for the effective management of funds and personnel, and is accountable for the quality and timely delivery of all contractual items.
2. Operates within client guidance, contractual limitations, and Company business and policy directives.
3. Serves as focal point of contact with client regarding program activities.
4. Ensures that all required resources are available for program implementation.
5. Maintains the development and execution of business opportunities based on broad, general guidance.
6. Confers with project manager to provide technical advice and to assist with problem resolution.
7. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and fifteen (15) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, thirteen (13) years of general experience is acceptable. With a PhD, one (1) year of general experience is required.

SR. PROGRAMMER ANALYST

General Summary

Works independently, with management review of end results. Has prime accountability for the maintenance and operating efficiency of a major subsystem, such as the teleprocessing network, database management systems or a GIS data application or integration.

Principal Duties and Responsibilities

1. Continually assess the performance of appropriate software systems to identify and correct problems which impact operation efficiency and work quality.
2. Maintains active liaison with user personnel to ensure continuing responsiveness of applicable system software user requirements.
3. Analyzes performance indicators such as system's response time and number of programs being processed to ensure operational efficiency.
4. Designs, codes, installs, and maintains appropriate systems software program.
5. Identifies, evaluates, tailors, and directs the implementation of vendor-supplied software packages.
6. Performs special system regenerations where applicable to reflect changes in peripheral configuration.

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7. Ensures the maintenance of adequate software systems documentation.
 8. Recommends to management the purchase or lease of system software packages and related hardware.
 9. Provides technical assistance to less experienced systems software personnel in the resolution of complex system-related problems.
 10. Trains users in applications programming and other user personnel in the use of systems software and related hardware.
 11. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and six (6) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, four (4) years of general experience is required. With a PhD, two (2) years of general experience is required.

SR. SOFTWARE ENGINEER

General Summary

Under general supervision, engineers software solutions based upon client requirements. Generally, has one or more Software Engineers on staff and heads up projects that make use of commercially available or custom Computer Aided Software Engineering (CASE) tools as required. Also utilizes various COTS products and techniques such as Tomcat, PostgreSQL, Postgis, GML, KML, XML, ArcSDE, ArcIMS, ArcSDE, ArcGIS Server, ArcIMS, and Oracle Spatial, FGDC, OGIS, OGC and other GIS standards.

Principal Duties and Responsibilities

1. Engineers software solutions based upon client requirements.
2. Supervises a staff of Software Engineers as required.
3. Manages projects that make use of commercially-available or custom CASE tools as required.
4. Develops technical documentation detailing the project design parameters.
5. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and eight (8) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, six (6) years of general experience is required. With a PhD, four (4) years of general experience is required.

SR. SYSTEMS ANALYST

General Summary

Acts as a lead in performing systems analysis of computer and communications/networks systems. Oversees the overall installation of computer operating systems, network, and application software, hypervisors and other Cloud Computing infrastructure components, SOA software (ESBs, Web Servers, Business Process Software, Portal Servers). Has ability to adapt to new situations and environments. Possesses keen troubleshooting skills to assist other Sr. Systems Analysts and Program Managers to analyze enterprise information and geospatial architectures, process workflow management, ESRI technology, Oracle Spatial, and Web services.

Principal Duties and Responsibilities

1. Performs systems analysis of computer and networking systems.
2. Supports other Sr. Systems Analysts and Program Managers, as required.
3. Oversees the overall integration of all systems peripherals so that they can operate correctly within a predefined environment.
4. Oversees hotline support to customers.
5. Analyzes and develops technical documentation detailing the installation procedures.
6. May perform other duties, as assigned.

Job Specifications

Bachelor's degree or equivalent and eight (8) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, six (6) years of general experience is acceptable. With a PhD, four (4) years of general experience is required.

SR. SYSTEMS ENGINEER

General Summary

Acts as a lead in defining and executing systems engineering activities within a project such as process definition and workflow management. These activities may consist of systems planning, information security planning, performance management, capacity planning, testing and validation, risk assessment, benchmarking, information engineering, and development and staffing of a systems engineering or security management plan.

Principal Duties and Responsibilities

1. Performs systems engineering planning, information security planning, performance management, capacity planning, testing and validation, risk assessment, benchmarking, information engineering, security impact analysis.
2. Development and staffing of a systems engineering or security management plan.
3. Supports other Sr. Systems Engineers and Program Managers, as required.
4. Analyzes and develops technical documentation detailing the integration and system performance or information security.
5. May analyze security implications of authentication and authorization of Cloud based services spanning all the Delivery Models (SaaS, PaaS, IaaS).
6. Coordinates the activities of Systems Engineers and Jr. Systems Engineers assigned to specific systems engineering projects.
7. May analyze security implications of transitioning from IPv4 to Internet Protocol version 6 (IPv6).
8. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and eight (8) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, six (6) years of general experience is required. With a PhD, four (4) years of general experience is required.

SR. SYSTEM INTEGRATION ENGINEER

General Summary

Acts as a lead in defining and executing integration engineering activities within a project. These activities may consist of concept exploration and assessment, systems integration, systems of systems integration, performance management, technology assessment, testing and validation, and development and staffing of a systems integration plan.

Principal Duties and Responsibilities:

1. Performs concept exploration and assessment, systems integration, systems of systems integration, performance management, technology assessment, testing and validation.
2. Development and staffing of a systems integration management plan.
3. Supports other Engineers and Program Managers, as required.
4. Analyzes and develops technical documentation detailing the integration and system performance.
5. Coordinates the activities of system integration engineers assigned to specific systems integration projects.
6. May test implementation of Internet Protocol version 6 (IPv6).
7. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and twelve (12) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, ten (10) years of general experience is required. With a PhD, eight (8) year of general experience is required.

SR. TRAINER

General Summary

Identifies, develops, implements, and conducts training and instruction of technical-based subject matter related to computer hardware/software, communications, local and wide area networking, Internet, video, imaging, geospatial capabilities & products and business processes, Government regulations, procurement/acquisition, strategic planning, etc., as required for a particular situation.

Principal Duties and Responsibilities

1. Designs, develops, prepares and refines training curriculum and course materials for various classroom and other instructional environments.
2. Possesses skills and knowledge in computer-based and multimedia training environments.
3. Conducts training requirements surveys, designs computer-based and multimedia curriculum in response to specific system training requirements during the life cycle.
4. Is intimately knowledgeable in the subject matters for which he/she is developing curriculum.
5. Supervises Training Specialists in the instruction of individual trainees as well as whole classes of students in a variety of technical-based subject matter.
6. Collaborates, when necessary, with outside entities.
7. May develop training on Internet Protocol version 6 (IPv6) and on issues dealing with the transition from IPv4 to IPv6.

Job Specifications

Bachelor's degree or equivalent and six (6) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, four (4) years of general experience is required. With a PhD, two (2) years of general experience is required.

SOFTWARE ENGINEER

General Summary

Under general supervision, engineers software solutions based upon client requirements. Generally reports to a Sr. Software Engineer and makes use of commercially-available or custom Computer Aided Software Engineering (CASE) tools as required also may utilize COTS products and techniques including Tomcat, PostgreSQL, Postgis, GML, KML, XML, web services, ArcSDE, ArcIMS, ArcSDE, ArcGIS Server, ArcIMS, and Oracle Spatial,

Principal Duties and Responsibilities

1. Engineers software solutions based upon client requirements.
2. Supports a Sr. Software Engineer as required.
3. Uses commercially-available or custom CASE tools as required.
4. Develops technical documentation detailing the project design parameters.
5. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, three (3) years of general experience is required. With a PhD, one (1) year of general experience is required.

SUBJECT MATTER EXPERT

General Summary

Expert in single or multiple technical disciplines. Provides Expert guidance and insight into specific technologies and their application and independently performs a variety of system design and integration tasks where a specific subject matter expertise is necessary.

Principal Duties and Responsibilities

1. Plans and performs research, design assessment, development, integration and other assignments in a specific technical area.
2. Supervises broad team of systems engineers.
3. Responsible for highly complex technical/engineering areas.
4. May perform other duties, as assigned.

Job Specifications

Bachelor's degree or equivalent and seventeen (17) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, fifteen (15) years of general experience is required. With a PhD, thirteen (13) year of general experience is required.

SYSTEMS ADMINISTRATOR

General Summary

Supervises and manages the daily activities of configuration and operation of business systems which may be mainframe, mini, or client/server based.

Principal Duties and Responsibilities

1. Optimizes system operation and resource utilization, and performs system capacity analysis and planning.
2. Provides assistance to users in accessing and using business systems.

Job Specifications

Bachelor's degree or equivalent and two (2) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, no experience is required.

SYSTEMS ANALYST

General Summary

Under general supervision, performs systems analysis of computer and communications/network systems. Performs systems installation of computer operating systems, network, and applications software, and computer/network hardware, hypervisors and other Cloud Computing infrastructure components, SOA software (ESBs, Web Servers, Business Process Software, Portal Servers). Provides hotline support to customers. Has ability to adapt to new situations and environments including GIS applications and requirements. Possesses keen troubleshooting skills to assist Sr. Systems Analysts.

Principal Duties and Responsibilities

1. Performs systems analysis of computer and networking systems.
2. Supports a Sr. Systems Analyst, as required.
3. Provides overall integration of all systems peripherals so that they operate correctly within a predefined environment.
4. Provides hotline support to customers.
5. Develops technical documentation detailing the installation procedures.
6. May perform other duties, as assigned.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, three (3) years of general experience is acceptable. With a PhD, one (1) year of general experience is required.

SYSTEMS ARCHITECT

General Summary

Senior scientist who independently performs a variety of system design and engineering tasks which are broad in nature and are concerned with design and implementation of major enterprise systems development and integration, including supporting personnel, hardware, software, and support facilities and/or equipment. Supervises team of Sr. Systems Engineers, Network Engineers, Sr. Network Engineers, and Network Engineers through project completion and is considered a Subject Matter Expert (SME) in one or more specific areas of computer system design and networking.

Principal Duties and Responsibilities

1. Plans and performs systems and networking engineering research, design development, and other assignments in conformance with system and network design, engineering, and customer specifications.
2. Supervises team of Sr. Systems Engineers, Systems Engineers, Sr. Network Engineers, and Network Engineers.
3. Responsible for highly complex technical/engineering projects.
4. Coordinates the activities of Sr. Systems Engineers, Systems Engineers, Sr. Network Engineers, and Network Engineers assigned to specific system and network engineering projects.
5. Is the lead technical authority on the project.
6. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.
7. May perform other duties, as assigned.

Job Specifications

Master's degree or equivalent and ten (10) years of general experience. A Bachelor's degree and nine (9) years of general experience is equivalent to a Master's degree or a High School Diploma (or equivalent) and fifteen (15) years of general experience is considered equivalent to a Master's degree. With a Doctorate, eight (8) years of general experience is acceptable.

SYSTEMS ENGINEER

General Summary

Under general supervision, defines and executes systems engineering activities within a project. These activities may consist of systems planning, information security planning, performance management, capacity planning, testing and validation, risk assessment, benchmarking, information engineering, and development and staffing of a systems engineering or security management plan.

Principal Duties and Responsibilities

1. Performs systems engineering planning, information security planning, performance management, capacity planning, testing and validation, risk assessment, benchmarking, information engineering, security impact analysis.
2. Development and staffing of a systems engineering or security management plan.
3. Supports a Sr. Systems Engineer, as required.
4. Analyzes and develops technical documentation detailing the integration and system performance or information security.
5. May analyze security implications of authentication and authorization of Cloud based services spanning all the Delivery Models (SaaS, PaaS, IaaS).
6. Coordinates the activities of Systems Engineers and Jr. Systems Engineers assigned to specific systems engineering projects.
7. May analyze security implications of transitioning from IPv4 to Internet Protocol version 6 (IPv6).
8. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, three (3) years of general experience is required. With a PhD, one (1) year of general experience is required.

SYSTEMS INTEGRATION ARCHITECT

General Summary

Senior Architect who independently performs a variety of system design and integration tasks which are broad in nature and are concerned with design, implementation and architecting of major systems, systems of systems, integration of systems elements and related support systems. Often supervises a broad team of engineers through project completion.

Principal Duties and Responsibilities

1. Plans and performs systems engineering research, design, development, integration and other assignments in conformance with system design, engineering, and customer specifications.
2. Supervises broad team of systems engineers.
3. Responsible for highly complex technical/engineering projects.
4. Often leads team in technical areas.
5. May perform other duties, as assigned.

Job Specifications

Bachelor's degree or equivalent and fourteen (14) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, twelve (12) years of general experience is required. With a PhD, ten (10) years of general experience is required.

SYSTEMS INTEGRATION ENGINEER

General Summary

Under general supervision, defines and executes integration engineering activities within a project. These activities may consist of concept exploration and assessment, systems integration, GIS integration, legacy systems integration, performance management, technology assessment, testing and validation, and development and staffing of a systems integration plan.

Principal Duties and Responsibilities

1. Performs concept exploration and assessment, systems integration, systems of systems integration, performance management, technology assessment, testing and validation.
2. Supports a Sr. System Integration Engineer, as required.
3. Analyzes and develops technical documentation detailing the integration and system performance.
4. May test implementation of Internet Protocol version 6 (IPv6).
5. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and eight (8) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, six (6) years of general experience is required. With a PhD, four (4) years of general experience is required.

SYSTEMS OPERATOR

General Summary

Monitors and supports computer processing.

Principal Duties and Responsibilities

1. Coordinates input, output, and file media.
2. Distributes output and controls computer operation that may be mainframe, mini, or client/server based.

Job Specifications

High School Diploma and two (2) years of general experience. There is no experience substitution for a High School Diploma; however, a G.E.D., other degree equivalency program, or a technical trade school certificate is acceptable. With a Bachelor's degree, no experience is required.

TECHNICAL WRITER/EDITOR

General Summary

Assists in collecting and organizing information required for preparation of user's manuals, training materials, installation guides, proposals, and other reports and deliverables. May have experience in Information Security.

Principal Duties and Responsibilities

1. Edits functional descriptions, system specifications, user's manuals, special reports, or any other customer deliverables and documents or information security related documents.

Job Specifications

Bachelor's degree or equivalent. Six (6) years of general experience is considered equivalent to a Bachelor's degree.

TELECOMMUNICATIONS TECHNOLOGY PROJECT MANAGER

General Summary

Possesses high-level knowledge of telecommunications networks and/or technologies and integrates this information with knowledge of project management methodologies to organize and direct resources and deliver telecommunications products and services, such as consulting and research, for government applications. Capable of managing the planning, execution, and delivery phases of complex telecommunications projects within the constraints of contract terms and conditions and government procurement regulations.

Principal Duties and Responsibilities

1. Responsible for managing resources, scheduling, and allocation of funding in order to deliver contracted products and services on time
2. Serves as point of contact for details regarding project progress
3. Can work with Program Manager, or directly with Contract Officer/Contract Officer's Technical Representative, to identify and address changes in project scope, schedule, and budget
4. Provides advice to assist with project problem resolution

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5. Is capable of developing proposals for new work and changes to existing work.
 6. May be responsible for designing new Internet Protocol version 6 (IPv6) systems and/or planning transition from IPv4 to IPv6.

Job Specifications:

A Bachelor's degree and (6) years Project Management experience is required. A Master's degree and five (5) years Project management experience with at least one (1) year managing government projects is acceptable. With a PhD, three (3) years of general experience is required

TRAINING SPECIALIST

General Summary

Conducts the research necessary to develop and revise training courses including GIS courses.

Principal Duties and Responsibilities

1. Develops and revises these courses and prepares appropriate training catalogs.
2. Prepares instructor materials (course outline, background material, and training aids).
3. Prepares student materials (course manuals, workbooks, handouts, completion certificates, and course critique forms).
4. Trains personnel by conducting formal classroom courses, workshops and seminars.
5. May provide training on Internet Protocol version 6 (IPv6).

Job Specifications

Bachelor's degree or equivalent and two (2) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, no experience is required.

WEBMASTER

General Summary

Works independently in support of client requirements. Installs and configures WWW hardware; installs and implements WWW software; designs, develops, implements, and maintains Home/WEB pages tailored to client requirements.

Principal Duties and Responsibilities

1. Utilize software, such as, JAVA, HTML, Windows 95/NT, Visual C++, Visual Basic, PERL, C Shell scripts, Novell Netware, UNIX, TCP/IP, and various WEB authoring tools, e.g., Microsoft's Frontpage and Lotus Notes' Domino.
2. Monitor usage, pages browsed, time online; maintain currency with the Internet Service Providers (ISPs), e.g., CompuServe, AOL, and Traveler's capabilities and performance by tracking downtime, and online performance.
3. Remain abreast of the latest developments in software, hardware, and services provided by the ISPs and recommends upgrades/alternatives to more effectively meet client requirements.

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4. Navigate databases; develop capabilities to prevent unauthorized intrusions; train users on ISP, homepage, and WKW use; and prepare/edit system documentation.
 5. May be responsible for designing new Internet Protocol version 6 (IPv6) networks and/or planning transition from IPv4 to IPv6.

Job Specifications

High School Diploma or equivalent and four (4) years general experience in microcomputer technology. Two (2) years of experience in various network technologies for LAN and WAN, servers, network operating systems and protocols, inter/intranet servers and languages, and designing, developing, and maintaining WEB pages. If proposed as Task Leader, twelve (12) months in supervision/management of ADP support activities.

SIN 132-51 PROFESSIONAL SERVICES PRICE LIST

LABOR CATEGORY TITLE	OPTION YEAR 3 - SAIC SITE (ON-SITE) CEILING RATES				
	CY16	CY17	CY17	CY17	CY17
	7/1/2012 1/1/2013	1/2/2013 1/1/2014	1/2/2014 1/1/2015	1/2/2015 1/1/2016	1/2/2016 1/1/2017
Administrative Support	\$36.93	\$37.67	\$38.43	\$39.19	\$39.98
Computer Operator	N/A	N/A	N/A	N/A	N/A
Computer System/Network Engineer	N/A	N/A	N/A	N/A	N/A
Computer Telephony Integration Architect	\$354.47	\$361.56	\$368.79	\$376.17	\$383.69
Computer Telephony Integration Engineer I	\$219.37	\$223.76	\$228.23	\$232.80	\$237.45
Computer Telephony Integration Engineer II	\$252.86	\$257.92	\$263.07	\$268.33	\$273.70
Computer Telephony Integration Engineer III	\$287.55	\$293.30	\$299.17	\$305.15	\$311.25
Cost Analyst	\$80.08	\$81.68	\$83.32	\$84.98	\$86.68
Data Entry/Analyst I	N/A	N/A	N/A	N/A	N/A
Data Entry/Analyst II	N/A	N/A	N/A	N/A	N/A
Data Entry/Analyst III	N/A	N/A	N/A	N/A	N/A
Data Warehouse Specialist I	\$73.91	\$75.39	\$76.90	\$78.43	\$80.00
Data Warehouse Specialist II	\$87.47	\$89.21	\$91.00	\$92.82	\$94.67
Data Warehouse Specialist III	\$110.85	\$113.07	\$115.33	\$117.64	\$119.99
Data Warehouse Specialist IV	\$123.20	\$125.66	\$128.17	\$130.74	\$133.35
Data Warehouse Specialist V	\$135.51	\$138.22	\$140.98	\$143.80	\$146.68
Draftsman	\$75.30	\$76.80	\$78.34	\$79.91	\$81.50
Enterprise Consultant	\$167.41	\$170.76	\$174.18	\$177.66	\$181.21
ERP Consultant I	\$168.39	\$171.76	\$175.19	\$178.70	\$182.27
ERP Consultant II	\$192.75	\$196.60	\$200.54	\$204.55	\$208.64
ERP Consultant III	\$228.28	\$232.84	\$237.50	\$242.25	\$247.09
ERP Consultant IV	\$264.39	\$269.68	\$275.08	\$280.58	\$286.19
Functional Analyst	N/A	N/A	N/A	N/A	N/A
Functional Specialist	N/A	N/A	N/A	N/A	N/A
Hardware/Software Installation Technician	\$89.58	\$91.37	\$93.20	\$95.06	\$96.96
Hardware/Software Specialist	\$97.73	\$99.68	\$101.67	\$103.71	\$105.78
Help Desk Manager	\$131.48	\$134.11	\$136.79	\$139.53	\$142.32
Help Desk Specialist	\$97.73	\$99.68	\$101.67	\$103.71	\$105.78
Information Engineer I	\$44.32	\$45.21	\$46.11	\$47.03	\$47.97
Information Engineer II	\$58.52	\$59.69	\$60.88	\$62.10	\$63.34
Information Engineer III	\$71.50	\$72.93	\$74.39	\$75.88	\$77.40
Information Engineer IV	\$84.50	\$86.19	\$87.91	\$89.67	\$91.46
Information Engineer V	\$101.29	\$103.31	\$105.38	\$107.49	\$109.64
Internet/Intranet Specialist I	\$92.39	\$94.24	\$96.12	\$98.05	\$100.01
Internet/Intranet Specialist II	\$123.52	\$125.99	\$128.51	\$131.08	\$133.70
Internet/Intranet Specialist III	\$152.75	\$155.80	\$158.92	\$162.09	\$165.34
Information Systems Engineer	N/A	N/A	N/A	N/A	N/A
Jr. Enterprise Consultant	\$129.75	\$132.35	\$135.00	\$137.70	\$140.45
Jr. Functional Specialist	N/A	N/A	N/A	N/A	N/A
Jr. Programmer Analyst	\$87.89	\$89.65	\$91.44	\$93.27	\$95.14
Jr. Systems Analyst	\$94.81	\$96.71	\$98.64	\$100.61	\$102.62
Jr. Systems Engineer	\$94.81	\$96.71	\$98.64	\$100.61	\$102.62
LAN/WAN AIS Specialist	N/A	N/A	N/A	N/A	N/A

LABOR CATEGORY TITLE	OPTION YEAR 3 - SAIC SITE (ON-SITE) CEILING RATES				
	CY16	CY17	CY17	CY17	CY17
	7/1/2012 1/1/2013	1/2/2013 1/1/2014	1/2/2014 1/1/2015	1/2/2015 1/1/2016	1/2/2016 1/1/2017
Lead/Senior Data Entry Clerk	N/A	N/A	N/A	N/A	N/A
Microcomputer Specialist	N/A	N/A	N/A	N/A	N/A
Network Architect	\$354.47	\$361.56	\$368.79	\$376.17	\$383.69
Network Architecture Engineer I	\$219.37	\$223.76	\$228.23	\$232.80	\$237.45
Network Architecture Engineer II	\$252.86	\$257.92	\$263.07	\$268.33	\$273.70
Network Architecture Engineer III	\$287.55	\$293.30	\$299.17	\$305.15	\$311.25
Network Engineer	\$111.82	\$114.06	\$116.34	\$118.67	\$121.04
Network Management Engineer I	\$219.37	\$223.76	\$228.23	\$232.80	\$237.45
Network Management Engineer II	\$252.86	\$257.92	\$263.07	\$268.33	\$273.70
Network Management Engineer III	\$287.55	\$293.30	\$299.17	\$305.15	\$311.25
Network Technician	\$88.41	\$90.18	\$91.99	\$93.83	\$95.70
Operations Manager	\$143.08	\$145.94	\$148.86	\$151.83	\$154.87
Production Control Specialist	N/A	N/A	N/A	N/A	N/A
Program Manager	\$172.18	\$175.62	\$179.13	\$182.71	\$186.37
Programmer Analyst	\$108.90	\$111.07	\$113.29	\$115.56	\$117.87
Project Control Specialist	\$82.30	\$83.95	\$85.63	\$87.34	\$89.09
Quality Assurance Analyst	\$82.30	\$83.95	\$85.63	\$87.34	\$89.09
Sr. Enterprise Consultant	\$209.26	\$213.45	\$217.72	\$222.07	\$226.51
Sr. Information Systems Engineer	N/A	N/A	N/A	N/A	N/A
Sr. Microcomputer Specialist	N/A	N/A	N/A	N/A	N/A
Sr. Network Engineer	\$121.54	\$123.97	\$126.45	\$128.98	\$131.56
Sr. Network Installation Technician	\$96.94	\$98.88	\$100.86	\$102.87	\$104.93
Sr. Network Operations Analyst/Technician	N/A	N/A	N/A	N/A	N/A
Sr. Operator Systems Software Analyst/Programmer	N/A	N/A	N/A	N/A	N/A
Sr. Program Manager	\$222.56	\$227.02	\$231.56	\$236.19	\$240.91
Sr. Programmer Analyst	\$118.18	\$120.54	\$122.95	\$125.41	\$127.92
Sr. Software Engineer	\$111.82	\$114.06	\$116.34	\$118.67	\$121.04
Sr. Systems Analyst	\$120.87	\$123.29	\$125.75	\$128.27	\$130.83
Sr. Systems Engineer	\$150.84	\$153.85	\$156.93	\$160.07	\$163.27
Sr. Systems Integration Engineer	\$217.31	\$221.66	\$226.09	\$230.61	\$235.22
Sr. Trainer	\$100.04	\$102.04	\$104.08	\$106.16	\$108.29
Software Engineer	\$98.82	\$100.79	\$102.81	\$104.87	\$106.96
Subject Matter Expert	\$242.25	\$247.10	\$252.04	\$257.08	\$262.22
Systems Administrator	\$111.04	\$113.26	\$115.52	\$117.83	\$120.19
Systems Analyst	\$108.28	\$110.45	\$112.66	\$114.91	\$117.21
Systems Architect	\$153.18	\$156.25	\$159.37	\$162.56	\$165.81
Systems Engineer	\$111.82	\$114.06	\$116.34	\$118.67	\$121.04
Systems Integration Architect	\$219.95	\$224.35	\$228.84	\$233.42	\$238.08
Systems Integration Engineer	\$182.88	\$186.53	\$190.26	\$194.07	\$197.95
Systems Operator	\$96.94	\$98.88	\$100.86	\$102.87	\$104.93
Technical Writer/Editor	\$78.91	\$80.49	\$82.10	\$83.74	\$85.41
Telecommunications Technology Project Manager	\$287.55	\$293.30	\$299.17	\$305.15	\$311.25
Training Specialist	\$96.93	\$98.87	\$100.85	\$102.86	\$104.92
Webmaster	N/A	N/A	N/A	N/A	N/A

LABOR CATEGORY TITLE	OPTION YEAR 3 - CUSTOMER SITE(OFF-SITE)CEILING RATES				
	CY16	CY17	CY17	CY17	CY17
	7/1/2012 1/1/2013	1/2/2013 1/1/2014	1/2/2014 1/1/2015	1/2/2015 1/1/2016	1/2/2016 1/1/2017
Administrative Support	\$32.54	\$33.19	\$33.85	\$34.53	\$35.22
Computer Operator	\$40.26	\$41.06	\$41.89	\$42.72	\$43.58
Computer System/Network Engineer	\$67.44	\$68.79	\$70.17	\$71.57	\$73.00
Computer Telephony Integration Architect	\$354.47	\$361.56	\$368.79	\$376.17	\$383.69
Computer Telephony Integration Engineer I	\$219.37	\$223.76	\$228.23	\$232.80	\$237.45
Computer Telephony Integration Engineer II	\$252.86	\$257.92	\$263.07	\$268.33	\$273.70
Computer Telephony Integration Engineer III	\$287.55	\$293.30	\$299.17	\$305.15	\$311.25
Cost Analyst	\$70.45	\$71.86	\$73.30	\$74.76	\$76.26
Data Entry/Analyst I	\$24.17	\$24.66	\$25.15	\$25.65	\$26.17
Data Entry/Analyst II	\$33.03	\$33.69	\$34.36	\$35.05	\$35.75
Data Entry/Analyst III	\$44.48	\$45.37	\$46.28	\$47.20	\$48.15
Data Warehouse Specialist I	\$65.04	\$66.34	\$67.66	\$69.02	\$70.40
Data Warehouse Specialist II	\$76.96	\$78.50	\$80.07	\$81.67	\$83.30
Data Warehouse Specialist III	\$97.58	\$99.54	\$101.53	\$103.56	\$105.63
Data Warehouse Specialist IV	\$108.41	\$110.57	\$112.79	\$115.04	\$117.34
Data Warehouse Specialist V	\$119.26	\$121.64	\$124.08	\$126.56	\$129.09
Draftsman	\$66.25	\$67.57	\$68.93	\$70.30	\$71.71
Enterprise Consultant	\$136.46	\$139.18	\$141.97	\$144.81	\$147.70
ERP Consultant I	\$148.57	\$151.54	\$154.58	\$157.67	\$160.82
ERP Consultant II	\$169.74	\$173.13	\$176.60	\$180.13	\$183.73
ERP Consultant III	\$201.21	\$205.23	\$209.33	\$213.52	\$217.79
ERP Consultant IV	\$232.16	\$236.81	\$241.54	\$246.37	\$251.30
Functional Analyst	\$53.43	\$54.50	\$55.59	\$56.70	\$57.83
Functional Specialist	\$55.90	\$57.01	\$58.15	\$59.32	\$60.50
Hardware/Software Installation Technician	\$78.85	\$80.42	\$82.03	\$83.67	\$85.35
Hardware/Software Specialist	\$86.00	\$87.72	\$89.47	\$91.26	\$93.09
Help Desk Manager	\$115.93	\$118.25	\$120.62	\$123.03	\$125.49
Help Desk Specialist	\$86.00	\$87.72	\$89.47	\$91.26	\$93.09
Information Engineer I	\$39.00	\$39.78	\$40.58	\$41.39	\$42.22
Information Engineer II	\$51.51	\$52.54	\$53.59	\$54.66	\$55.76
Information Engineer III	\$62.93	\$64.19	\$65.48	\$66.79	\$68.12
Information Engineer IV	\$74.37	\$75.86	\$77.37	\$78.92	\$80.50
Information Engineer V	\$89.14	\$90.92	\$92.74	\$94.59	\$96.49
Internet/Intranet Specialist I	\$81.29	\$82.92	\$84.58	\$86.27	\$88.00
Internet/Intranet Specialist II	\$108.70	\$110.88	\$113.09	\$115.35	\$117.66
Internet/Intranet Specialist III	\$134.44	\$137.12	\$139.87	\$142.66	\$145.52
Information Systems Engineer	\$63.47	\$64.74	\$66.04	\$67.36	\$68.71
Jr. Enterprise Consultant	\$105.74	\$107.86	\$110.02	\$112.22	\$114.46
Jr. Functional Specialist	\$38.63	\$39.40	\$40.19	\$40.99	\$41.81
Jr. Programmer Analyst	N/A	N/A	N/A	N/A	N/A
Jr. Systems Analyst	\$83.44	\$85.10	\$86.81	\$88.54	\$90.31
Jr. Systems Engineer	\$83.44	\$85.10	\$86.81	\$88.54	\$90.31
LAN/WAN AIS Specialist	\$71.77	\$73.20	\$74.67	\$76.16	\$77.68
Lead/Senior Data Entry Clerk	\$26.70	\$27.24	\$27.78	\$28.34	\$28.90
Microcomputer Specialist	\$31.25	\$31.88	\$32.52	\$33.17	\$33.83

LABOR CATEGORY TITLE	OPTION YEAR 3 - CUSTOMER SITE(OFF-SITE)CEILING RATES				
	CY16	CY17	CY17	CY17	CY17
	7/1/2012 1/1/2013	1/2/2013 1/1/2014	1/2/2014 1/1/2015	1/2/2015 1/1/2016	1/2/2016 1/1/2017
Network Architect	\$354.47	\$361.56	\$368.79	\$376.17	\$383.69
Network Architecture Engineer I	\$219.37	\$223.76	\$228.23	\$232.80	\$237.45
Network Architecture Engineer II	\$252.86	\$257.92	\$263.07	\$268.33	\$273.70
Network Architecture Engineer III	\$287.55	\$293.30	\$299.17	\$305.15	\$311.25
Network Engineer	\$98.40	\$100.37	\$102.37	\$104.42	\$106.51
Network Management Engineer I	\$219.37	\$223.76	\$228.23	\$232.80	\$237.45
Network Management Engineer II	\$252.86	\$257.92	\$263.07	\$268.33	\$273.70
Network Management Engineer III	\$287.55	\$293.30	\$299.17	\$305.15	\$311.25
Network Technician	\$77.81	\$79.36	\$80.95	\$82.57	\$84.22
Operations Manager	\$125.91	\$128.43	\$131.00	\$133.62	\$136.29
Production Control Specialist	\$31.62	\$32.25	\$32.90	\$33.56	\$34.23
Program Manager	\$150.54	\$153.55	\$156.62	\$159.76	\$162.95
Programmer Analyst	N/A	N/A	N/A	N/A	N/A
Project Control Specialist	\$72.42	\$73.87	\$75.35	\$76.85	\$78.39
Quality Assurance Analyst	\$72.42	\$73.87	\$75.35	\$76.85	\$78.39
Sr. Enterprise Consultant	\$170.91	\$174.33	\$177.82	\$181.37	\$185.00
Sr. Information Systems Engineer	\$68.32	\$69.69	\$71.08	\$72.50	\$73.95
Sr. Microcomputer Specialist	\$42.92	\$43.78	\$44.66	\$45.55	\$46.46
Sr. Network Engineer	\$106.97	\$109.11	\$111.29	\$113.51	\$115.78
Sr. Network Installation Technician	\$85.30	\$87.01	\$88.75	\$90.52	\$92.33
Sr. Network Operations Analyst/Technician	\$61.06	\$62.28	\$63.52	\$64.79	\$66.09
Sr. Operator Systems Software Analyst/Programmer	\$52.74	\$53.80	\$54.88	\$55.97	\$57.09
Sr. Program Manager	\$205.55	\$209.66	\$213.85	\$218.13	\$222.49
Sr. Programmer Analyst	\$104.00	\$106.08	\$108.20	\$110.36	\$112.57
Sr. Software Engineer	\$98.40	\$100.37	\$102.37	\$104.42	\$106.51
Sr. Systems Analyst	\$106.38	\$108.50	\$110.67	\$112.89	\$115.14
Sr. Systems Engineer	\$132.73	\$135.39	\$138.09	\$140.86	\$143.67
Sr. Systems Integration Engineer	\$189.39	\$193.18	\$197.05	\$200.99	\$205.01
Sr. Trainer	\$88.04	\$89.80	\$91.59	\$93.42	\$95.29
Software Engineer	\$86.97	\$88.70	\$90.48	\$92.29	\$94.13
Subject Matter Expert	\$216.82	\$221.16	\$225.58	\$230.09	\$234.69
Systems Administrator	\$97.71	\$99.66	\$101.65	\$103.69	\$105.76
Systems Analyst	\$95.30	\$97.20	\$99.15	\$101.13	\$103.15
Systems Architect	\$134.81	\$137.51	\$140.26	\$143.07	\$145.93
Systems Engineer	\$98.40	\$100.37	\$102.37	\$104.42	\$106.51
Systems Integration Architect	\$201.53	\$205.56	\$209.67	\$213.87	\$218.14
Systems Integration Engineer	\$147.81	\$150.76	\$153.78	\$156.86	\$159.99
Systems Operator	\$85.30	\$87.01	\$88.75	\$90.52	\$92.33
Technical Writer/Editor	\$69.46	\$70.85	\$72.27	\$73.71	\$75.19
Telecommunications Technology Project Manager	\$287.55	\$293.30	\$299.17	\$305.15	\$311.25
Training Specialist	\$85.30	\$87.01	\$88.75	\$90.52	\$92.33
Webmaster	\$55.00	\$56.10	\$57.22	\$58.36	\$59.53

TERMS AND CONDITIONS APPLICABLE TO INFORMATION TECHNOLOGY (IT) ELECTRONIC-COMMERCE (EC) (SPECIAL ITEM NUMBER 132-52)

1. Scope

- (a) The prices, terms and conditions stated under Special Item Number 132-52 Electronic Commerce (EC) Services apply exclusively to EC Services within the scope of this Information Technology Schedule.
- (b) The Contractor shall provide services at the Contractor's facility and/or at the ordering activity location, as agreed to by the Contractor and the ordering activity.

2. Performance Incentives I-FSS-60 Performance Incentives (April 2000)

- (a) Performance incentives may be agreed upon between the Contractor and the ordering activity on individual fixed price orders or Blanket Purchase Agreements under this contract.
- (b) The ordering activity must establish a maximum performance incentive price for these services and/or total solutions on individual orders or Blanket Purchase Agreements.
- (c) Incentives should be designed to relate results achieved by the contractor to specified targets. To the maximum extent practicable, ordering activities shall consider establishing incentives where performance is critical to the ordering activity's mission and incentives are likely to motivate the contractor. Incentives shall be based on objectively measurable tasks.

3. Orders

- (a) Agencies may use written orders, EDI orders, blanket purchase agreements, individual purchase orders, or task orders for ordering services under this contract. Blanket Purchase Agreements shall not extend beyond the end of the contract period: all services and delivery shall be made and the contract terms and conditions shall continue in effect until the completion of the order. Orders for tasks, which extend beyond the fiscal year for which funds are available shall include FAR 52.232-19 (Deviation – May 2003) Availability of Funds for the Next Fiscal Year. The purchase order shall specify the availability of funds and the period for which funds are available.
- (b) All task orders are subject to the terms and conditions of the contract. In the event of conflict between a task order and the contract, the contract will take precedence.

4. Performance of Services

- (a) The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering activity.
- (b) The ordering activity should include the criteria for satisfactory completion for each task in the Statement of Work or Delivery Order. Services shall be completed in a good and workmanlike manner.
- (c) Any Contractor travel required in the performance of EC Services must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Established Federal Government per diem rates will apply to all Contractor travel. Contractors cannot use GSA city pair contracts.

5. Stop Work Order (FAR 52.242-15) (AUG 1989)

- (a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work order is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either:

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- i. Cancel the stop-work order; or
 - ii. Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract.
- (b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if:
- (c) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and
- (d) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided that if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.
- (e) If a stop-work order is not canceled and the work covered by the order is terminated for convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.

6. Inspection of Services

The Inspection of Services–Fixed Price (AUG 1996) (Deviation – May 2003) clause at FAR 52.246-4 applies to firm-fixed price orders placed under this contract. The Inspection–Time-and-Materials and Labor-Hour (JAN 1986) (Deviation – May 2003) clause at FAR 52.246-6 applies to time-and-materials and labor-hour orders placed under this contract

7. Responsibilities of the Contractor

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character. If the end product of a task order is software, then FAR 52.227-14 (Deviation – Dec 2007) Rights in Data – General, may apply.

8. Responsibilities of the Ordering Activity

Subject to security regulations, the ordering activity shall permit Contractor access to all facilities necessary to perform the requisite EC Services.

9. Independent Contractor

All EC Services performed by the Contractor under the terms of this contract shall be as an independent Contractor, and not as an agent or employee of the ordering activity.

10. Organizational Conflicts of Interest

(a) Definitions.

“Contractor” means the person, firm, unincorporated association, joint venture, partnership, or corporation that is a party to this contract.

“Contractor and its affiliates” and “Contractor or its affiliates” refers to the Contractor, its chief executives, directors, officers, subsidiaries, affiliates, subcontractors at any tier, and consultants and any joint venture involving the Contractor, any entity into or with which the Contractor subsequently merges or affiliates, or any other successor or assignee of the Contractor.

An “Organizational conflict of interest” exists when the nature of the work to be performed under a proposed ordering activity contract, without some restriction on activities by the Contractor and its affiliates, may either (i) result in an unfair competitive advantage to the Contractor or its affiliates or (ii) impair the Contractor’s or its affiliates’ objectivity in performing contract work.

- (b) To avoid an organizational or financial conflict of interest and to avoid prejudicing the best interests of the ordering activity, ordering activities may place restrictions on the Contractors, its affiliates, chief executives, directors, subsidiaries and subcontractors at any tier when placing orders against schedule contracts. Such restrictions shall be consistent with FAR 9.505 and shall be designed to

avoid, neutralize, or mitigate organizational conflicts of interest that might otherwise exist in situations related to individual orders placed against the schedule contract. Examples of situations, which may require restrictions, are provided at FAR 9.508.

11. Invoices

The Contractor, upon completion of the work ordered, shall submit invoices for IT/ Professional services. Progress payments may be authorized by the ordering activity on individual orders if appropriate. Progress payments shall be based upon completion of defined milestones or interim products. Invoices shall be submitted monthly for recurring services performed during the preceding month.

12. Payments

For firm-fixed price orders, the ordering activity shall pay the Contractor upon submission of proper invoices or vouchers, the prices stipulated in this contract for service rendered and accepted. Progress payments shall be made only when authorized by the order. For time-and-materials orders, the Payments under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (OCT 2008) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to time-and-materials orders placed under this contract. For labor-hour orders, the Payment under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (OCT 2008) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to labor-hour orders placed under this contract. 52.216-31(Feb 2007) Time-and-Materials/Labor-Hour Proposal Requirements—Commercial Item Acquisition As prescribed in 16.601(e)(3), insert the following provision:

(a) The Government contemplates award of a Time-and-Materials or Labor-Hour type of contract resulting from this solicitation.

(b) The offeror must specify fixed hourly rates in its offer that include wages, overhead, general and administrative expenses, and profit. The offeror must specify whether the fixed hourly rate for each labor category applies to labor performed by—

- (1) The offeror;
- (2) Subcontractors; and/or
- (3) Divisions, subsidiaries, or affiliates of the offeror under a common control.

13. Incidental Support Costs

Incidental support costs are available outside the scope of this contract. The costs will be negotiated separately with the ordering activity in accordance with the guidelines set forth in the FAR.

14. Approval of Subcontracts

The ordering activity may require that the Contractor receive, from the ordering activity's Contracting Officer, written consent before placing any subcontract for furnishing any of the work called for in a task order.

15. Description of Electronic Commerce (EC) Services and Pricing

a) The Contractor shall provide a description of each type of EC Service offered under Special Item Numbers 132-52 E-Commerce. Services and rates should be presented in the same manner as the Contractor sells to its commercial customers and other ordering activity customers. Please submit a description of all corresponding commercial EC services to be provided.

b) Pricing for all EC Services shall be in accordance with the Contractor's customary commercial practices; e.g., hourly rates, monthly rates, term rates, unit prices and/or fixed prices.

**TERMS AND CONDITIONS APPLICABLE TO
AUTHENTICATION PRODUCTS AND SERVICES (SPECIAL ITEM NUMBER 132-62)
AUTHENTICATION PRODUCTS AND SERVICES (MAY 2006) (C-FCI-007)**

AUTHENTICATION PRODUCTS AND SERVICES (MAY 2006) (CI-FSS-052)

A General Background

Authentication Products and Services provide for authentication of individuals for purposes of physical and logical access control, electronic signature, performance of E-business transactions and delivery of Government services. Authentication Products and Services consist of hardware, software components and supporting services that provide for identity assurance.

Homeland Security Presidential Directive 12 (HSPD-12), "Policy for a Common Identification Standard for Federal Employees and Contractors" establishes the requirement for a mandatory Government-wide standard for secure and reliable forms of identification issued by the Federal Government to its employees and contractor employees assigned to Government contracts in order to enhance security, increase Government efficiency, reduce identity fraud, and protect personal privacy. Further, the Directive requires the Department of Commerce to promulgate a Federal standard for secure and reliable forms of identification within six (6) months of the date of the Directive. As a result, the National Institute of Standards and Technology (NIST) released Federal Information Processing Standard (FIPS) 201: Personal Identity Verification of Federal Employees and Contractors on February 25, 2005. FIPS 201 requires that the digital certificates incorporated into the Personal Identity Verification (PIV) identity credentials comply with the X.509 Certificate Policy for the U.S. Federal PKI Common Policy Framework. In addition, FIPS 201 requires that Federal identity badges referred to as PIV credentials, issued to Federal employees and contractors comply with the Standard and associated NIST Special Publications 800-73, 800-76, 800-78, and 800-79.

B. Special Item Numbers

The General Services Administration has established the E-Authentication Initiative (see URL: <http://cio.gov/eauthentication>) to provide common infrastructure for the authentication of the public and internal federal users for logical access to Federal E-Government applications and electronic services. To support the government-wide implementation of HSPD-12 and the Federal E-Authentication Initiative, GSA is establishing the following Special Item Numbers (SINs):

- SIN 132-60: Access Certificates for Electronic Services (ACES) Program. This program provides identity management and authentication services and ACES digital certificates for use primarily by external end users to access Federal Government electronic services and transactions in accordance with the X.509 Certificate Policy for the Federal ACES Program.
- SIN 132-61: PKI Shared Service Providers (PKI SSP) Program. This program provides PKI services and digital certificates for use by Federal employees and contractors to the Federal Government in accordance with the X.509 Certificate Policy for the U.S. Federal PKI Common Policy Framework.
- SIN 132-62: HSPD-12 Product and Service Components. SIN 132-62 is established for products and services for agencies to implement the requirements of HSPD-12, FIPS-201 and associated NIST special publications. The HSPD-12 implementation components specified under this SIN are:
 - PIV Enrollment and Registration Services and Products
 - Hardware and Software Products
 - Deployment Services
 - Managed Services

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- PIV Systems Infrastructure, Services and Products
 - Hardware and Software Products
 - Deployment Services
 - Managed Services

 - PIV Card Management and Production Services and Products
 - Hardware and Software Products
 - Deployment Services
 - Managed Services

 - PIV Card Finalization Services and Products
 - Hardware and Software Products
 - Deployment Services
 - Managed Services

 - PIV System Integration Services and Products (Bundled)
 - “Pure” Integration Services
 - Turn-Key Integrated Services and Products
 - Managed Services

 - PIV Card Management and Production Services
 - PIV Card Finalization Services
 - Physical Access Control Products and Services
 - Logical Access Control Products and Services
 - PIV System Integration Services
 - Approved FIPS 201 Compliant Products and Services

C Qualification Information

All of the products and services for the SINs listed above must be qualified as being compliant with Government-wide requirements before they will be included on a GSA Information Technology (IT) Schedule contract. The Qualification Requirements and associated evaluation procedures against the Qualification Requirements for each SIN and the specific Qualification Requirements for HSPD-12 implementation components are presented at the following URL: <http://www.idmanagement.gov>. In addition, the National Institute of Standards and Technology (NIST) has established the NIST Personal Identity Verification Program (NPIVP) to evaluate integrated circuit chip cards and products against conformance requirements contained in FIPS 201. GSA has established the FIPS 201 Evaluation Program to evaluate other products needed for agency implementation of HSPD-12 requirements where normative requirements are specified in FIPS 201 and to perform card and reader interface testing for interoperability. Products that are approved as FIPS-201 compliant through these evaluation and testing programs may be offered directly through SIN 132-62 under the category “Approved FIPS 201-Compliant Products and services.

D Qualification Requirements.

Offerors proposing products and services under Special Item Numbers (SINs) 132-60, 132-61 and 132-62 are required to provide the following:

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1. Proposed items must be determined to be compliant with Federal requirements for that Special Item Number. Qualification Requirements and procedures for the evaluation of products and services are posted at the URL: <http://www.idmanagement.gov>. GSA will follow these procedures in qualifying offeror's products and services against the Qualification Requirements for applicable to SIN. Offerors must submit all documentation certification letter(s) for HSPD-12, SINs 132-60, 132-61 and 132-62 at the same time as submission of proposal. Award will be dependent upon receipt of official documentation from the Acquisition Program Management Office (APMO) listed below verifying satisfactory qualification against the Qualification Requirements of the proposed SIN(s).
 2. After award, Contractor agrees that certified products and services will not be offered under any other SIN on any GSA Multiple Award Schedule.
 3.
 - a. If the Contractor changes the products or services previously qualified, GSA may require the contractor to resubmit the products or services for re-qualification.
 - b. If the Federal Government changes the qualification requirements or standards, Contractor must resubmit the products and services for re-qualification.

E. Demonstrating Conformance

The Federal Government has established Qualification Requirements for demonstrating conformance with the Standards. The following websites provide additional information regarding the evaluation and qualification processes:

1. For Access Certificates for Electronic Services (ACES) and PKI Shared Service Provider (SSP) Qualification Requirements and evaluation procedures: <http://www.idmanagement.gov>;
2. For HSPD-12 Product and Service Components Qualification Requirements and evaluation procedures: <http://www.idmanagement.gov>;
3. For FIPS 201 compliant products and services qualification and approval procedures: <http://www.csrc.nist.gov/piv-project/> and <http://www.smart.gov>.

F. Acquisition Program Management Office (APMO).

GSA has established the APMO to provide centralized technical oversight and management regarding the qualification process to industry partners and Federal agencies. Contact the following APMO for information on the E-Authentication Qualification process.

1. The Acquisition Program Management Office point-of-contact for Access Certificates for Electronic Services (ACES – SIN 132-60) and PKI Shared Service Providers (PKI SSP – SIN 132-61) is:
Stephen P. Duncan
Program Manager
E-Authentication Program Management Office
2011 Crystal Drive, Suite 911
Arlington, VA 22202
stephen.duncan@gsa.gov
703-306-6096

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2. The Acquisition Program Management Office point-of-contact for HSPD-12 Product and Service Components is:

Mike Brooks
Director, Center for Smartcard Solutions
Office of Center for Smartcard Solutions
1800 F Street, N.W., Room 5010
Washington, D.C. 20405
202.501.2765 (telephone)
202.208.3133 (fax)

1. ORDER

- (a) Agencies may use written orders, EDI orders, blanket purchase agreements, individual purchase orders, or task orders for ordering authentication products and services under this contract. Blanket Purchase Agreements shall not extend beyond the end of the contract period; all services and delivery shall be made and the contract terms and conditions shall continue in effect until the completion of the order. Orders for tasks which extend beyond the fiscal year for which funds are available shall include FAR 52.232-19 (Deviation – May 2003) Availability of Funds for the Next Fiscal Year. The purchase order shall specify the availability of funds and the period for which funds are available.
- (b) All task orders are subject to the terms and conditions of the contract. In the event of conflict between a task order and the contract, the contract will take precedence.
- (c) When placing an order, ordering activities may deal directly with the contractor or ordering activities may send the requirement to the Program Management Office to received assisted services for a fee.

2. PERFORMANCE OF SERVICES

- (a) The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering activity.
- (b) The Contractor agrees to render services only during normal working hours, unless otherwise agreed to by the Contractor and the ordering activity.
- (c) The ordering activity should include the criteria for satisfactory completion for each task in the Statement of Work or Delivery Order. Services shall be completed in a good and workmanlike manner.
- (d) Any Contractor travel required in the performance of the Services under SINS 132-60 A-E, 132-61 and 132-62 must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Established Federal Government per diem rates will apply to all Contractor travel. Contractors cannot use GSA city pair contracts.

3. STOP-WORK ORDER (FAR 52.242-15) (AUG 1989)

- (a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either
 - (1) Cancel the stop-work order; or
 - (2) Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract
- (b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable

adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if-

- . (1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and
 - . (2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.
- (c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.
- (d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

4. INSPECTION OF SERVICES

The Inspection of Services–Fixed Price (AUG 1996) (Deviation – May 2003) clause at FAR 52.246-4 applies to firm-fixed price orders placed under this contract. The Inspection–Time-and-Materials and Labor-Hour (JAN 1986) (Deviation – May 2003) clause at FAR 52.246-6 applies to time-and-materials and labor-hour orders placed under this contract.

5. RESPONSIBILITIES OF THE ORDERING ACTIVITY

Subject to security regulations, the ordering activity shall permit Contractor access to all facilities necessary to perform the requisite services.

6. INDEPENDENT CONTRACTOR

All services performed by the Contractor under the terms of this contract shall be an independent Contractor, and not as an agent or employee of the ordering activity.

7. ORGANIZATIONAL CONFLICTS OF INTEREST

- (a) Definitions.
- “Contractor” means the person, firm, unincorporated association, joint venture, partnership, or corporation that is a party to this contract.
- “Contractor and its affiliates” and “Contractor or its affiliates” refers to the Contractor, its chief executives, directors, officers, subsidiaries, affiliates, subcontractors at any tier, and consultants and any joint venture involving the Contractor, any entity into or with which the Contractor subsequently merges or affiliates, or any other successor or assignee of the Contractor.
- An “Organizational conflict of interest” exists when the nature of the work to be performed under a proposed ordering activity contract, without some restriction on ordering activities by the Contractor and its affiliates, may either (i) result in an unfair competitive advantage to the Contractor or its affiliates or (ii) impair the Contractor’s or its affiliates’ objectivity in performing contract work.
- (b) To avoid an organizational or financial conflict of interest and to avoid prejudicing the best interests of the ordering activity, ordering activities may place restrictions on the Contractors, its affiliates, chief executives, directors, subsidiaries and subcontractors at any tier when placing orders against schedule contracts. Such restrictions shall be consistent with FAR 9.505 and shall be designed to avoid, neutralize, or mitigate organizational conflicts of interest that might otherwise exist in situations related to individual orders placed against the schedule contract. Examples of situations, which may require restrictions, are provided at FAR 9.508.

8. INVOICES

The Contractor, upon completion of the work ordered, shall submit invoices for products and/or

services. Progress payments may be authorized by the ordering activity on individual orders if appropriate. Progress payments shall be based upon completion of defined milestones or interim products. Invoices shall be submitted monthly for recurring services performed during the preceding month.

9. PAYMENTS

For firm-fixed price orders, the ordering activity shall pay the Contractor, upon submission of proper invoices or vouchers, the prices stipulated in this contract for service rendered and accepted. Progress payments shall be made only when authorized by the order. For time-and-materials orders, the Payments under Time-and-Materials and Labor-Hour Contracts at FAR 52.232-7 (DEC 2002), (Alternate II – Feb 2002) (Deviation – May 2003) applies to time-and-materials orders placed under this contract. For labor-hour orders, the Payment under Time-and-Materials and Labor-Hour Contracts at FAR 52.232-7 (DEC 2002), (Alternate II – Feb 2002) (Deviation – May 2003)) applies to labor-hour orders placed under this contract.

10. RESUMES

Resumes shall be provided to the GSA Contracting Officer or the user ordering activity upon request.

11. INCIDENTAL SUPPORT COSTS

Incidental support costs are available outside the scope of this contract. The costs will be negotiated separately with the ordering activity in accordance with the guidelines set forth in the FAR.

12. APPROVAL OF SUBCONTRACTS

The ordering activity may require that the Contractor receive, from the ordering activity's Contracting Officer, written consent before placing any subcontract for furnishing any of the work called for in a task order.

13. DESCRIPTION OF AUTHENTICATION PRODUCTS, SERVICES AND PRICING

(a) The Contractor shall provide a description of each type of Authentication Product and Service offered under Special Item Numbers 132-60, 132-61 and/or 132-62. Authentication Products and Services should be presented in the same manner as the Contractor sells to its commercial and other ordering activity customers. For services, if the Contractor is proposing hourly rates, a description of all corresponding commercial job titles (labor categories) for those individuals who will perform the service should be provided

(b) Pricing for all Authentication Products and Services shall be in accordance with the Contractor's customary commercial practices; e.g., hourly rates, monthly rates, term rates, and/or fixed prices. The following is an example of the manner in which the description of a commercial job title should be presented:

EXAMPLE: Commercial Job Title: System Engineer

Minimum/General Experience: Three (3) years of technical experience that applies to systems analysis and design techniques for complex computer systems. Requires competence in all phases of systems analysis techniques, concepts and methods; also requires knowledge of available hardware, system software, input/output devices, structure and management practices.

Functional Responsibility: Guides users in formulating requirements, advises alternative approaches, and conducts feasibility studies.

Minimum Education: Bachelor's degree in Computer Science

(c) For Special Item Number 132-62, HSPD-12 Product and Service Components:

i. Bundled equipment pricing is requested for the following product components:

- enrollment and registration products,
- PIV card management and production products,

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- PIV card activation and
 - finalization products.
- ii. Seat pricing is requested for the following service components offered as managed services:
- enrollment and registration services,
 - PIV card management and production services,
 - PIV card activation and
 - finalization services.

Bundled equipment categories, managed service categories and the requirements for bundled equipment and managed service Qualification Requirements are presented at the website: <http://www.idmanagement.gov>.

SIN 132-62: HSPD-12 PROFESSIONAL SERVICES LABOR CATEGORIES AND RATES

HSPD-12 DATA ENTRY/ANALYST I

General Summary

Performs as a functional area expert for specialized security applications and operational environments, knowledge of computer systems and ability to analyze problems to satisfy task order requirements.

Principal Duties and Responsibilities

1. Provides technical knowledge and security analysis of specialized applications and operational environments, and advice on problems that require knowledge of the subject matter for effective solutions.
2. Applies principles, methods and knowledge of the functional area of expertise to specific task order requirements. Assists in the design and preparation of technical reports and related Homeland Security Presidential Directive 12 (HSPD-12) documentation.
3. Assist in the preparation and presentations and briefings as required by the task order. Responsibilities include providing documentation planning and support, project administration, general office support, entering data into database management computer systems for various functional areas. Works under general supervision.

Job Specifications

High School degree or equivalent. Requires three (3) years of general experience. Associates degree can be substituted for three (3) years of experience. May or may not hold security clearances.

HSPD-12 DATA ENTRY/ANALYST II

General Summary

Performs as a functional area expert for specialized security applications and operational environments, knowledge of computer systems and ability to analyze complex problems to satisfy task order requirements. Possesses the ability to assume increasing responsibilities in the functional area activities and is knowledgeable of applicable functional standards and provides general technical support.

Principle Duties and Responsibilities

1. Provides technical knowledge and analysis of specialized security applications and operational environments, and advice on problems that require knowledge of the subject matter for effective solutions.
2. Applies principles, methods and knowledge of the functional area of expertise to specific task order requirements. Designs and prepares technical reports and related HSPD-12 documentation. Prepares and delivers presentations and briefings as required by the task order.
3. Responsibilities include coordinating and managing new functional area systems integration upgrades and entering data into database management computer systems for various functional areas to include HSPD-12, providing documentation planning and support, project administration and general office support. Works independently under minimal supervision.

Job Specifications

High School degree or equivalent and six (6) years general experience. Associates degree can be substituted for three (3) years of experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, no experience is required. May or may not hold security clearances.

HSPD-12 DATA ENTRY/ANALYST III

General Summary

Performs as a functional area expert for specialized security applications and operational environments, knowledge of computer systems and ability to analyze complex problems to satisfy task order requirements. Possesses the ability to assume increasing responsibilities in the functional area activities and is knowledgeable of applicable functional standards and provides general technical support. Is capable of implementing functional area projects and performing HSPD-12 analysis.

Principle Duties and Responsibilities

1. Provides technical knowledge and analysis of specialized applications and operational environments, and advice on problems that require knowledge of the subject matter for effective solutions.
2. Applies principles, methods and knowledge of the functional area of expertise to specific task order requirements. Designs and prepares technical reports and related HSPD-12 documentation. Prepares and delivers presentations and briefings as required by the task order.
3. Responsibilities include providing documentation planning and support, project administration, general office support, constructing database management systems, providing technical leadership for HSPD-12 functional area analysis, coordinating and managing new area security system upgrades, and entering data into database management computer systems for various functional areas. Possesses the ability to work independently and provides supervision to staff.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. Associates degree can be substituted for three (3) years of experience. With a Master's degree, three (3) years of general experience is required. May or may not hold security clearances.

HSPD-12 ENTERPRISE CONSULTANT

General Summary

Deploys enterprise-wide Security system management tools. Evaluates HSPD-12 issues and has the capability to manage security systems. Has a good understanding of complex, multi-platform information technology (IT) infrastructure operations, processes and tools. Deploy architected solution and ability to solve unanticipated complications in the field.

Principal Duties and Responsibilities

1. Deploy and document enterprise management security solutions for complex heterogeneous IT environments.
2. Integrate security systems, network and help desk tools into an integrated HSPD-12 solution.
3. Provide hardware and software tool selection analysis and recommendations.
4. Lead technical teams with diverse areas of specialization to implement multiple software management tools either sequentially or in parallel.
5. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and six (6) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, two (2) years of general experience is acceptable. With a PhD, no experience is required. May or may not hold security clearances.

HSPD-12 FUNCTIONAL ANALYST

General Summary

Applies broad knowledge and experience to HSPD-12 requirements. Develops designs and performs feasibility studies and functional security systems analysis for complex integrated information security management systems. Must be able to work independently.

Principal Duties and Responsibilities

1. Configuration Management Support for complex integrated management systems while maintaining quality assurance.
2. Provide business process re-engineering support such as, but not limited to, design of alternative strategies, development and monitoring of functional tests and assistance in the implementation of HSPD-12 solutions.
3. Provide fiscal support as well as security analysis, human factor analysis and data analysis support.
4. May perform other duties as assigned.

Job Specifications

Bachelor's degree in a related curriculum and five (5) years of experience. Five (5) years of specific job related experience or eight (8) years of general experience may be substituted for a Bachelor's degree. May or may not hold security clearances.

HSPD-12 FUNCTIONAL SPECIALIST

General Summary

Applies specific knowledge and experience to HSPD-12 issues. Develops functional security requirements relating to complex integrated information technology security systems. Must demonstrate the ability to work independently or under only general direction.

Principal Duties and Responsibilities

1. Develop and provide skills and disciplines on a variety of information technology security issues.
2. Assist Program Managers, Systems Analysts, Engineers and Programmers to ensure successful continuity and program completion.
3. Specialized skills include, but are not limited to, HSPD-12 planning and implementation, communications, systems administrations and quality assurance.

Job Specifications

Bachelor's degree in a related curriculum and ten (10) years of experience. Five (5) years of specific job-related experience or eight (8) years of general experience may be substituted for a Bachelor's degree. May or may not hold security clearances.

HSPD-12 HARDWARE/SOFTWARE INSTALLATION TECHNICIAN

General Summary

Conducts sites surveys; assesses and documents current security configurations and user requirements and installs new configurations.

Principal Duties and Responsibilities

1. Designs and optimize network topologies. Analyzes existing security requirements and prepares specifications for hardware/software acquisitions.
2. Prepares engineering plans and site installation Technical Design Packages.
3. Develops HSPD-12 hardware/software installation schedules. Prepares drawings documenting configuration changes at each site.
4. Prepares site installation and test reports.
5. Configures security systems, communications devices, and peripheral equipment. Installs network hardware/software.
6. Trains site personnel in proper use of HSPD-12 related hardware/software.
7. Builds interconnecting cables.

Job Specifications

High School Diploma or equivalent and two (2) years of general experience. There is no experience substitution for a High School Diploma; however, a G.E.D., other degree equivalency program, or a technical trade school certificate is acceptable. With a Bachelor's degree, no experience is required. May or may not hold security clearances.

HSPD-12 HARDWARE/SOFTWARE SPECIALIST

General Summary

Reviews security systems in terms of machine capabilities and man-machine interface. Prepares reports and studies concerning hardware/software.

Principal Duties and Responsibilities

1. Prepares functional requirements and specifications for HSPD-12 hardware/software acquisitions.
2. Ensures that problems have been properly identified and solutions will satisfy the user's requirements.

Job Specifications

Bachelor's degree or equivalent. Six (6) years of general experience is considered equivalent to a Bachelor's degree. May or may not hold security clearances.

HSPD-12 HELP DESK MANAGER

General Summary

Manages the help desk function and personnel.

Principal Duties and Responsibilities

1. Provides daily supervision and direction to staff who are responsible for phone and in-person support to users in the areas of security, e-mail, directories, standard Windows desktop applications, and applications developed or deployed for HSPD-12 solutions.
2. Serve as the first point-of-contact for troubleshooting hardware/software, PC, and printer problems.

Job Specifications

Bachelor's degree or equivalent and six (6) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, four (4) years of general experience is required. With a PhD, two (2) years of general experience is required. May or may not hold security clearances.

HSPD-12 HELP DESK SPECIALIST

General Summary

Serves as the initial point-of-contact for troubleshooting security hardware/software, PC, and printer problems.

Principal Duties and Responsibilities

1. Provides phone and in-person support to users in the areas of security, e-mail, directories, standard Windows desktop applications, and applications developed for HSPD-12 solutions.

Job Specifications

Bachelor's degree or equivalent. Six (6) years of general experience is considered equivalent to a Bachelor's degree. May or may not hold security clearances.

HSPD-12 INFORMATION ENGINEER I

General Summary

Performs as an applications programmer on large-scale database security systems, knowledge of computer equipment, and ability to develop complex software to satisfy integration and Personal Identity Verification (PIV) objectives.

Principal Duties and Responsibilities

1. Analyzes security application software and design specifications for HSPD-12 process activities.
2. Develops block diagrams and logic flow charts.
3. Translates detailed design into application software.
4. Tests, debugs, and refines the application software to produce the required product.
5. Prepares required documentation, including both program-level and user-level documentation.
6. May serve as HSPD-12 Tier 1 support to users and involved with trouble-shooting system operations.
7. Works under general supervision.

Job Specifications

Pursuing a Bachelor's degree or equivalent and one (1) year of general experience. Three (3) years of general experience is equivalent to pursuing a Bachelor's degree. With a Bachelor's degree, no experience is required. May or may not hold security clearances.

HSPD-12 INFORMATION ENGINEER II

General Summary

Works with and third/fourth generation languages in the design and implementation of systems and using database management systems to support Personal Identity Verification (PIV) services and products. Possesses ability to assume increasing responsibilities in information engineering activities. Knowledgeable of applicable standards and provides general technical HSPD-12 support.

Principal Duties and Responsibilities

1. Analyzes and studies complex Personal Identity Verification (PIV) system requirements.
2. Designs software tools and subsystems to support software reuse and domain analyses and manages their implementation.
3. Manages software development and support using formal specifications, data flow diagrams, other accepted design techniques and Computer Aided Software Engineering (CASE) tools.
4. Provides input to estimate software development costs and schedule. Reviews existing programs and assists in making refinements, reducing operating time, and improving current techniques.
5. May manage, coordinate, or install security system upgrades.
6. May provide HSPD-12 system analysis and integration and oversee system operations.

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7. Often assists with monitoring system performance and security and sets up terminal/printer queues.
 8. Provides in-service support for proper use of system software, hardware, or applications and provides Tier 1 technical support.
 9. Works independently under minimal supervision.

Job Specifications

Bachelor's degree or equivalent and one (1) year of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, no experience is required. May or may not hold security clearances.

HSPD-12 INFORMATION ENGINEER III

General Summary

Performs HSPD-12 systems development, functional and data requirements analysis, Personal Identity Verification (PIV) systems analysis and design, programming, program design, system upgrades and documentation preparation. Implements information engineering projects, systems analysis, design and programming using CASE and IE tools and methods, systems planning, business information planning, and business analysis.

Principal Duties and Responsibilities

1. Applies business process improvement practices to re-engineer methodologies/principles and business process modernization projects. Applies, as appropriate, activity and data modeling, transaction flow analysis, internal control and risk analysis and modern business methods and performance measurement techniques.
2. Assists in establishing standards for information systems procedures.
3. Develops and applies organization-wide Personal Identity Verification (PIV) plans and models for use in designing and building integrated, HSPD-12 database management systems. Constructs logical business improvement opportunities consistent with corporate Information Management guiding principles, cost savings, and open system architecture objectives.
4. Manages planned projects for overall installation of application and network systems. Develops action plans with milestones for system upgrades.
5. Provides technical leadership for HSPD-12 requirements, integration and support of new products, interfaces and performance enhancements. Analyzes and resolves security system software issues.
6. Administers accounts and system access as needed.
7. Assists with the development of training curriculum for customer orientation and use of new Personal Identity Verification (PIV) systems. Also assists with application customization through process analysis and workflow development including advising customers of database file & table configuration best practices.
8. Possesses the ability to work independently.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, three (3) years of general experience is required. With a PhD, one (1) year of general experience is required. May or may not hold security clearances.

HSPD-12 INFORMATION ENGINEER IV

General Experience

Performs HSPD-12 security systems management, development, functional and data requirements analysis, systems analysis and design, programming, program design, and documentation preparation. Manages the implementation of HSPD-12 projects and performs systems analysis, design and programming selecting CASE or IE tools and methods. Utilizes managerial and supervisory skills. Prepares written and oral communications, including giving formal presentations to different audiences.

Principal Duties and Responsibilities

1. Applies an enterprise-wide set of disciplines for the management, planning, analysis, design and construction of Personal Identity Verification (PIV) systems on an enterprise-wide basis or across a major sector of the enterprise.
2. Develops analytical and computational techniques and methodology for problem solutions.
3. Performs enterprise-wide strategic systems planning, business information planning, and HSPD-12 analysis.
4. Performs process and data modeling in support of the planning and analysis efforts using both manual and automated tools;
5. Applies reverse engineering and re-engineering disciplines to develop migration strategic and planning documents.
6. Manages and coordinates planned system and implementation activities including system upgrades, security, and allocation of resources, availability, and in-service training.
7. Manages tasks, priorities and objectives.
8. Responsible for customer support and quality & timeliness of services.
9. Provides daily supervision and direction to staff.

Job Specifications

Bachelor's degree or equivalent and seven (7) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, five (5) years of general experience is required. With a PhD, three (3) years of general experience is required. May or may not hold security clearances.

HSPD-12 INFORMATION ENGINEER V

General Summary

Performs HSPD-12 security systems management, development, functional and data requirements analysis, systems analysis and design, programming, program design, and documentation preparation. Manages the implementation of Personal Identity Verification (PIV) projects and experience in security systems analysis, design, and programming. Works in the client/server environment. Utilizes managerial and supervisory skills. Prepares written and oral communications skills, including giving formal presentations to different audiences.

Principal Duties and Responsibilities

1. Applies an enterprise-wide set of disciplines for the management, planning, coordination, security analysis, design, and construction of HSPD-12 systems on an enterprise-wide basis or across a major sector of the enterprise.
2. Develops analytical and computational techniques and methodology for problem solutions.
3. Performs enterprise-wide strategic systems planning, business information planning, business and analysis.
4. Performs process and data modeling in support of the planning and analysis efforts using both manual and automated tools.
5. Applies reverse engineering and re-engineering disciplines to develop migration and planning documents.
6. Controls and maintains technical documents.
7. Provides daily supervision and technical guidance in software engineering and system operational techniques and automated support tools to local and remote supporting staff.
8. Advises customers on HSPD-12 best practices.
9. Manages and coordinates planned security system and implementation activities including system upgrades, security, and allocation of resources, availability, and in-service training.
10. Manages tasks, priorities and objectives.
11. Assists in the development and implementation of site policies and procedures.
12. May provide train-the-trainer and ad hoc report writing training and assistance.
13. Responsible for customer support and quality & timeliness of Personal Identity Verification (PIV) services.

Job Specifications

Bachelor's degree or equivalent and nine (9) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, seven (7) years of general experience is required. With a PhD, five (5) years of general experience is required. May or may not hold security clearances.

HSPD-12 INFORMATION SYTEMS ENGINEER

General Summary

Performs HSPD-12 engineering work requiring systems analysis, design, application of standard techniques, procedures, and criteria in carrying out HSPD-12 tasks. Ability to follow engineering plans as well as installation and configuration guidelines. Requires exercising limited judgment on details of work and in making preliminary selections/adaptations of system engineering alternatives.

Principal Duties and Responsibilities

1. Provide site surveys, assessment and documentation of current network configuration and user requirements.
2. Design and optimize Personal Identity Verification (PIV) services and products.
3. Define product specifications and evaluate technologies and products for implementation and integration within the customer environment.

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4. Install and configure new products and develop installation schedules.

Job Specifications

Bachelor's degree in Engineering or related curriculum and three (3) years of experience. Five (5) years of specific job-related experience or eight (8) years of general experience may be substituted for a Bachelor's degree. May or may not hold security clearances.

HSPD-12 JR. ENTERPRISE CONSULTANT

General Summary

Deploys enterprise-wide system management tools. Manages ongoing operations issues and possesses the capability to manage HSPD-12 systems. Has a good understanding of complex, multi-platform HSPD-12 infrastructure operations, processes and tools. Deploy architected solution and ability to solve unanticipated complications in the field.

Principal Duties and Responsibilities

1. Deploy and document enterprise management under the supervision of the project technical lead.
2. Perform integration work for a variety of systems, network and help desk tools.
3. Understand functionally of tools selected for implementation and hardware and software administrative knowledge.
4. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent. With a Bachelor's degree, no experience is required. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, no experience is required. May or may not hold security clearances.

HSPD-12 JR. FUNCTIONAL SPECIALIST

General Summary

Develops functional requirements relating to complex integrated Personal Identity Verification (PIV) systems.

Principal Duties and Responsibilities

1. Develop and provide skills and disciplines on a variety of HSDP-12 technology issues.
2. Assist the Functional Specialist.
3. Specialized skills include, but are not limited to, information planning, security, communications, systems administrations, quality assurance, video teleconferencing and microcomputer training.

Job Specifications

High School Diploma and five (5) years of experience. May or may not hold security clearances.

HSPD-12 JR. PROGRAMMER ANALYST General Summary

Works under supervision to support the activities of a Programmer Analyst. Assists in the support of the maintenance and operating efficiency of a major HSPD-12 system.

Principal Duties and Responsibilities

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1. Assists programmer analysts in the assessment of the performance of appropriate HSPD-12 systems to identify and correct problems that impact operation and work quality.
 2. Assists in analyzing performance indicators such as system response time and number of programs being processed to ensure operational efficiency.
 3. Codes, in accordance with specific design parameters, system software modules as directed by the Programmer Analyst.
 4. Assists in the identification, evaluation, customizing and implementation of vendor-supplied Personal Identity Verification (PIV) software packages.
 5. Assists in the support of special systems regenerations, where applicable, to reflect changes in peripheral configurations.
 6. Assists the Programmer Analyst in end user training in applications programming and other user personnel in the use of systems software and related hardware.
 7. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent. Six (6) years of general experience is considered equivalent to a Bachelor's degree. May or may not hold security clearances.

HSPD-12 JR. SYSTEMS ANALYST

General Summary

Under supervision, supports the installation of HSPD-12 computer operating systems, network, and application software, and computer/network hardware. Provides hotline support to customers. Possesses troubleshooting skills to assist Systems Analysts.

Principal Duties and Responsibilities

1. Performs systems analysis of computer and networking systems.
2. Supports a Systems Analyst, as required.
3. Technically supports the overall integration of all HSPD-12 systems peripherals so that they operate correctly within a predefined environment.
4. Provides hotline support to customers.
5. Develops technical documentation detailing the installation procedures.
6. May perform other duties, as assigned.

Job Specifications

Bachelor's degree or equivalent and two (2) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, no experience is required. May or may not hold security clearances.

HSPD-12 JR. SYSTEMS ENGINEER

General Summary

Under supervision, assists in defining and executing HSPD-12 systems engineering activities within a project. These activities may consist of systems planning, information security planning, performance management,

capacity planning, testing and validation, risk assessment, benchmarking, information engineering, and development and staffing of a systems engineering or security management plan.

Principal Duties and Responsibilities

1. Performs HSPD-12 systems engineering planning, information security planning, performance management, capacity planning, testing and validation, risk assessment, benchmarking, information engineering, security impact analysis.
2. Development and staffing of a systems engineering or security management plan.
3. Supports a Systems Engineer, as required.
4. Analyzes and develops technical documentation detailing the integration and system performance or information security.
5. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and two (2) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, no experience is required. May or may not hold security clearances.

HSPD-12 NETWORK ARCHITECTURE ENGINEER I

General Summary

Has knowledge in one or more aspects of HSPD-12 network architectures for Government applications. May possess broad knowledge in network integration, network interoperability, network implementation, telecommunications technologies, or network protocols. Capable of working, with supervision, on specific tasks associated with specific aspects of HSPD-12 projects.

Principal Duties and Responsibilities

1. Provides assistance and performs general technical tasks for HSPD-12 network architecture planning.
2. Provides support for one or more specific areas associated with HSPD-12, interoperability, or integration.
3. Supports the development of technical analyses, white papers, or research for specific technical areas of network architecture.
4. Assists in general analysis on HSPD-12 interoperability topologies, technologies, interfaces, and protocols.
5. May perform other duties as required.

Job Specifications

Bachelor's degree in Electrical/Electronics Engineering, Computer Science, or Information Systems. Eight (8) years of experience in telecommunications network architectures may be substituted for a Bachelor's degree.

HSPD-12 NETWORK ENGINEER

General Summary

Under supervision performs a variety of network engineering tasks which are broad in nature and are concerned with the design and implementation of integrated HSPD-12 solutions, including personnel, hardware, software and support facilities and/or equipment. Performs with some latitude for unreviewed actions and decisions.

Principal Duties and Responsibilities

1. Plans and performs network engineering research, design development, and other assignments in conformance with network design, engineering and customer specifications.
2. Responsible for the technical/engineering part of a major project or a project of lesser complexity and importance than those normally assigned to a higher level engineer.
3. Coordinates the activities of Network Technicians assigned to specific HSPD-12 projects.
4. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and three (3) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, one (1) year of general experience is required. With a PhD, no experience is required. May or may not hold security clearances.

HSPD-12 NETWORK TECHNICIAN

General Summary

Works under supervision to perform a variety of HSPD-12 tasks that are broad in nature and are concerned with the design and implementation of integrated Personal Identity Verification (PIV), including personnel, hardware, software and support facilities and/or equipment. Works under the supervision of a Sr. Network Engineer or Network Engineer.

Principal Duties and Responsibilities

1. Supports the planning and performance of network engineering research, design development, and other assignments in conformance with network design, engineering, and customer specifications.
2. Supports the technical/engineering part of a networking project assigned to higher level engineers.
3. Works under the supervision of a Sr. Network Engineer or Network Engineer.
4. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent, or High School Diploma and five (5) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. There is no experience substitution for a High School Diploma; however, a G.E.D. or other degree equivalency program is acceptable. May or may not hold security clearances.

HSPD-12 OPERATIONS MANAGER

General Summary

Manages HSPD-12 operations. Ensures production schedules are met. Ensures HSPD-12 security system resources are used effectively.

Principal Duties and Responsibilities

1. Coordinates the resolution of production-related problems.

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2. Ensures proper relationships are established between customers, teaming partners, and vendors to facilitate the delivery of HSPD-12 services,
 3. Supervises staff operations.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, three (3) years of general experience is required. With a PhD, one (1) year of general experience is required. May or may not hold security clearances.

HSPD-12 PROGRAM MANAGER

General Summary

Directs the performance of a variety of related projects, which may be organized by technology, program, or client. Oversees the technology development and/or application, marketing, and resource allocation to support a Personal Identity Verification (PIV) program. Program areas typically represent more than three functional areas that may include engineering, HSPD-12 systems analysis, quality control, administration, etc.

Principal Duties and Responsibilities

1. Responsible for the effective management of funds and personnel, and is accountable for the quality and timely delivery of all contractual items.
2. Operates within client guidance, contractual limitations, and Company business and policy directives.
3. Serves as focal point-of-contact with client regarding Personal Identity Verification (PIV) program activities.
4. Ensures that all required resources including work force, production standards, computer time, and facilities are available for program implementation.
5. Manages program consisting of multiple projects including project identification, design, development, and delivery.
6. Maintains the development and execution of business opportunities based on broad, general guidance.
7. Confers with project manager to provide technical advice and to assist with problem resolution.
8. Responsible for marketing new technology and follow-on business acquisitions.
9. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and ten (10) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, eight (8) years of general experience is acceptable. With a PhD, six (6) years of general experience is required. May or may not hold security clearances.

HSPD-12 PROGRAMMER ANALYST

General Summary

Works under supervision to support the activities of a Sr. Programmer Analyst. Supports the maintenance and operating efficiency of a major subsystem, such as the Personal Identity Verification (PIV), database management systems.

Principal Duties and Responsibilities

1. Support the continual assessment of the performance of appropriate HSPD-12 systems to identify and correct problems that impact operation efficiency and work quality.
2. Analyzes performance indicators such as system's response time and number of applications being processed to ensure operational efficiency.
3. Designs, codes, install, and maintains appropriate systems software program.
4. Supports the identification, evaluation, customizing and implementation of vendor-supplied software packages for compliance with NIST standards.
5. Supports special system regenerations where applicable to reflect changes in peripheral configuration.
6. Ensures the maintenance of adequate software systems documentation.
7. Trains users in applications programming and other user personnel in the use of systems software and related hardware.
8. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and two (2) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, no experience is required. May or may not hold security clearances.

HSPD-12 PROJECT CONTROL SPECIALIST

General Summary

Oversees financial management and administrative activities, such as budgeting, work force resource planning, and financial reporting.

Principal Duties and Responsibilities

1. Performs complex evaluations of existing procedures, processes, techniques, models, and/or systems related to management problems or contractual issues, which would require a report and recommend solutions.
2. Develops work breakdown structures, prepare charts, tables, graphs, and diagrams to assist in analyzing problems.
3. Provides daily supervision and direction to staff.

Job Specifications

Bachelor's degree or equivalent. Six (6) years of general experience is considered equivalent to a Bachelor's degree. May or may not hold security clearances.

HSPD-12 QUALITY ASSURANCE ANALYST

General Summary

Establishes and maintains a process for evaluating HSPD-12 systems and associated documentation. Determines the resources required for quality control. Maintains the level of quality throughout the project life cycle.

Principal Duties and Responsibilities

1. Conducts formal and informal reviews at pre-determined points throughout the development life cycle.
2. Provides technical and administrative direction for personnel performing systems development tasks, including the review of work products for correctness, adherence to the design concept and to user standards, review of program documentation to assure government standards/requirements are adhered to, and for progress in accordance with schedules.
3. Coordinates with the Project Manager to ensure problem solution and user satisfaction.
4. Makes recommendations, if needed, for approval of major HSPD-12 systems installations.
5. Prepares milestone status reports and deliveries/presentations on the system concept to colleagues, subordinates, and end user representatives.

Job Specifications

Bachelor's degree or equivalent and two (2) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, no experience is required. May or may not hold security clearances.

HSPD-12 SR. ENTERPRISE CONSULTANT

General Summary

Technical subject matter expert for enterprise-wide HSPD-12 system management tools and operations. Broad understanding of complex, multi-platform HSPD-12 infrastructure operations, hardware, software, processes and tools. Develops detailed design documents for Personal Identity Verification (PIV) products. Architect solutions for systems management tools and oversees project implementation.

Principal Duties and Responsibilities

1. Design and document enterprise management solutions for complex heterogeneous security environments.
2. Architect solutions that integrate systems, network and help desk tools into an integrated HSPD-12 solution.
3. Provide hardware and software tool selection analysis and recommendations.
4. Manages technical teams with diverse areas of specialization to implement multiple software management tools either sequentially or in parallel.
5. Confers with project manager to provide technical advice and to assist with problem resolution.
6. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and twelve (12) years of general experience Six (6) years of general experience are equivalent to a Bachelor's degree. With a Master's degree, six (6) years of general experience is acceptable. With a PhD, four (4) years of general experience is required. May or may not hold security clearances.

HSPD-12 SR. INFORMATION SYSTEMS ENGINEER

General Summary

Conduct HSPD-12 work requiring judgment in the evaluation, selection, adaptation and/or modification of standard techniques, procedures and criteria. Develop new approaches to problem solving. Independently performs HSPD-12 assignments with instructions as to the general results expected. Receives technical guidance on unusual or complex problems and supervisor approval for all projects. May supervise other engineers or technicians on assigned work.

Principal Duties and Responsibilities

1. Implement engineering principles, techniques and processes.
2. Determine NIST compliant product specifications and evaluate technologies for implementation and integration within the HSPD-12 environment.
3. Document the results of complex analysis and design tasks.
4. Design moderate to complex systems; assist in developing standards and techniques.
5. Formulate and document alternative methodologies for achieving customer objectives. Also defines system architectures and infrastructures to provide required functionality.

Job Specifications

Bachelor's degree in Engineering or a related curriculum and ten (10) years of experience. Five (5) years of specific job related experience or eight (8) years of general experience may be substituted for a Bachelor's degree. May or may not hold security clearances.

HSPD-12 SR. NETWORK ENGINEER

General Summary

Performs a variety of HSPD-12 tasks, either independently or under supervision, which is broad in nature and is concerned with the design and implementation of integrated networks, including personnel, hardware, software, and support facilities and/or equipment. Supervises team of Network Engineers through project completion.

Principal Duties and Responsibilities

1. Plans and performs network engineering research, design development, and other assignments in conformance with network design, engineering and customer specifications.
2. Supervises team of Network Engineers through project completion.
3. Responsible for major HSPD-12 technical/engineering projects of higher complexity and importance than those normally assigned to lower level engineers.
4. Coordinates the activities of Network Engineers and Network Technicians assigned to specific network engineering projects.
5. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and six (6) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, four (4) years of general experience is required. With a PhD, two (2) years of general experience is required. May or may not hold security clearances.

HSPD-12 SR. NETWORK INSTALLATION TECHNICIAN

General Summary

Organizes and directs network installations and site surveys.

Principal Duties and Responsibilities

1. Assesses and documents current site network configuration and user requirements.
2. Designs and optimizes network topologies. Directs and leads preparation of HSPD-12 site installation Technical Design Packages.
3. Develops installation schedules.
4. Mobilizes network installation team.
5. Directs and leads preparation of drawings documenting configuration changes at each site.
6. Prepares site installation and test reports.
7. Coordinates post-installation operations and maintenance support.

Job Specifications

High School Diploma or equivalent and five (5) years of general experience. There is no experience substitution for a High School Diploma; however a G.E.D., other degree equivalency program, or a technical trade school certificate is acceptable. With a Bachelor's degree, three (3) years of general experience is required. With a Master's degree, one (1) year of general experience is required. May or may not hold security clearances.

HSPD-12 SR. PROGRAM MANAGER

General Summary

Directs the performance of a variety of highly technical projects that may be organized by technology, program or client. Oversees the technology development and/or application, marketing, and resource allocation within program client base. Program areas typically include HSPD-12, engineering, integration, test, systems analysis, quality assurance, etc.

Principal Duties and Responsibilities:

1. Responsible for the effective management of funds and personnel, and is accountable for the quality and timely delivery of all contractual items.
2. Operates within client guidance, contractual limitations, and Company business and policy directives.
3. Serves as focal point of contact with client regarding program activities.
4. Ensures that all required resources are available for program implementation.
5. Maintains the development and execution of business opportunities based on broad, general guidance.
6. Confers with project manager to provide technical advice and to assist with problem resolution.
7. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and fifteen (15) years of general experience. Six (6) years of general experience is equivalent to a Bachelor's degree. With a Master's degree, thirteen (13) years of general experience is acceptable. With a PhD, eleven (11) years of general experience is required. May or may not hold security clearances.

HSPD-12 SR. PROGRAMMER ANALYST

General Summary

Works independently, with management review of end results. Has prime accountability for the maintenance and operating efficiency of a major Personal Identity Verification (PIV) system.

Principal Duties and Responsibilities

1. Continually assess the performance of appropriate software systems to identify and correct problems that impact operation efficiency and work quality.
2. Maintains active liaison with user personnel to ensure continuing responsiveness of applicable system software user requirements.
3. Analyzes performance indicators such as system's response time and number of programs being processed to ensure operational efficiency.
4. Designs, codes, installs, and maintains appropriate systems software program.
5. Identifies, evaluates, tailors, and directs the implementation of vendor-supplied software packages for NIST compliance and system compatibility.
6. Performs special system regenerations where applicable to reflect changes in peripheral configuration.
7. Ensures the maintenance of adequate HSPD-12 systems documentation.
8. Recommends to management the purchase or lease of system software packages and related HSPD-12 hardware.
9. Provides technical assistance to less experienced systems software personnel in the resolution of complex system-related problems.
10. Trains users in applications programming and other user personnel in the use of systems software and related hardware.
11. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and six (6) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, four (4) years of general experience is required. With a PhD, two (2) years of general experience is required. May or may not hold security clearances.

HSPD-12 SR. SOFTWARE ENGINEER

General Summary

Under general supervision, engineer's software solutions based upon client requirements. Generally, has one or more Software Engineers on staff and heads up projects that make use of commercially available or custom Computer Aided Software Engineering (CASE) tools as required.

Principal Duties and Responsibilities

1. Engineer's software solutions based upon client requirements.
2. Supervises a staff of Software Engineers as required.
3. Manages projects that make use of commercially-available or custom CASE tools as required.
4. Develops technical documentation detailing the HSPD-12 project design parameters.
5. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and eight (8) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, six (6) years of general experience is required. With a PhD, four (4) years of general experience is required. May or may not hold security clearances.

HSPD-12 SR. SYSTEMS ANALYST

General Summary

Acts as a lead in performing systems analysis of HSPD-12 systems. Oversees the overall installation of computer operating systems, network, and application software. Has ability to adapt to new situations and environments. Possesses keen troubleshooting skills to assist other Sr. Systems Analysts and Program Managers regarding HSPD-12.

Principal Duties and Responsibilities

1. Performs systems analysis of computer and networking systems.
2. Supports other Sr. Systems Analysts and Program Managers, as required.
3. Oversees the overall integration of all systems peripherals so that they can operate correctly within a predefined HSPD-12 environment.
4. Oversees hotline support to customers.
5. Analyzes and develops HSPD-12 technical documentation detailing the installation procedures.
6. May perform other duties, as assigned.

Job Specifications

Bachelor's degree or equivalent and eight (8) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, six (6) years of general experience is acceptable. With a PhD, four (4) years of general experience is required. May or may not hold security clearances.

HSPD-12 SR. SYSTEMS ENGINEER

General Summary

Acts as a lead in defining and executing HSPD-12 systems engineering activities within a project. These activities may consist of HSPD-12 systems planning, information security planning, performance management, capacity planning, testing and validation, risk assessment, benchmarking, information engineering, and development and staffing of a systems engineering or security management plan.

Principal Duties and Responsibilities

1. Performs HSPD-12 systems engineering planning, information security planning, performance management, capacity planning, testing and validation, risk assessment, benchmarking, information engineering, security impact analysis.
2. Development and staffing of a HSPD-12 systems engineering or security management plan.
3. Supports other Sr. Systems Engineers and Program Managers, as required.
4. Analyzes and develops technical documentation detailing the integration and system performance.
5. Coordinates the activities of Systems Engineers and Jr. Systems Engineers assigned to specific systems engineering projects.
6. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and eight (8) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, six (6) years of general experience is required. With a PhD, four (4) years of general experience is required. May or may not hold security clearances.

HSPD-12 SR. SYSTEM INTEGRATION ENGINEER

General Summary

Acts as a lead in defining and executing integration engineering activities within a HSPD-12 project. These activities may consist of concept exploration and assessment, systems integration, systems of systems integration, performance management, technology assessment, testing and validation, and development and staffing of a systems integration plan.

Principal Duties and Responsibilities:

1. Performs concept exploration and assessment, HSPD-12 systems integration, systems of systems integration, performance management, technology assessment, testing and validation.
2. Development and staffing of a HSPD-12 systems integration management plan.
3. Supports other Engineers and Program Managers, as required.
4. Analyzes and develops technical documentation detailing the integration and system performance.
5. Coordinates the activities of system integration engineers assigned to specific systems integration projects.
6. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and twelve (12) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, ten (10) years of general experience is required. With a PhD, eight (8) years of general experience is required. May or may not hold security clearances.

HSPD-12 SR. TRAINER

General Summary

Identifies, develops, implements, and conducts HSPD-12 training and instruction of technical-based subject matter related to computer hardware/software, communications, local and wide area networking, Internet, video,

imaging, business processes, Government regulations, procurement/acquisition, strategic planning, etc., as required for a particular situation.

Principal Duties and Responsibilities

1. Designs, develops, prepares and refines HSPD-12 training curriculum and course materials for various classroom and other instructional environments.
2. Possesses skills and knowledge in computer-based and multimedia training environments.
3. Conducts HSPD-12 training requirements surveys, designs computer-based and multimedia curriculum in response to specific system training requirements during the life cycle.
4. Is intimately knowledgeable in the HSPD-12 subject matters for which he/she is developing curriculum.
5. Supervises HSPD-12 Training Specialists in the instruction of individual trainees as well as whole classes of students in a variety of technical-based subject matter.
6. Collaborates, when necessary, with outside entities.

Job Specifications

Bachelor's degree or equivalent and six (6) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, four (4) years of general experience is required. With a PhD, two (2) years of general experience is required.

HSPD-12 SOFTWARE ENGINEER

General Summary

Under general supervision, engineers HSPD-12 solutions based upon client requirements. Generally reports to a Sr. Software Engineer and makes use of commercially-available or custom Computer Aided Software Engineering (CASE) tools as required.

Principal Duties and Responsibilities

1. Engineers software solutions based upon client requirements.
2. Supports a Sr. Software Engineer as required.
3. Uses commercially-available or custom CASE tools as required.
4. Develops technical documentation detailing the project design parameters.
5. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, three (3) years of general experience is required. With a PhD, one (1) year of general experience is required. May or may not hold security clearances.

HSPD-12 SUBJECT MATTER EXPERT

General Summary

Expert in single or multiple technical disciplines. Provides Expert guidance and insight into specific technologies and their application to Personal Identity Verification (PIV) and independently performs a variety of HSPD-12 system design and HSPD-12 integration tasks where a specific subject matter expertise is necessary.

Principal Duties and Responsibilities

1. Plans and performs research, design assessment, development, integration and other assignments in a specific HSPD-12 technical area.
2. Supervises broad team of systems engineers.
3. Responsible for highly complex technical/engineering areas.
4. May perform other duties, as assigned.

Job Specifications

Bachelor's degree or equivalent and seventeen (17) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, fifteen (15) years of general experience is required. With a PhD, thirteen (13) year of general experience is required. May or may not hold security clearances.

HSPD-12 SYSTEMS ADMINISTRATOR

General Summary

Supervises and manages the daily activities of configuration and operation of business systems which may be mainframe, mini, or client/server based.

Principal Duties and Responsibilities

1. Optimizes system operation and resource utilization, and performs HSPD-12 system capacity analysis and planning.
2. Provides assistance to users in accessing and using business systems.

Job Specifications

Bachelor's degree or equivalent and two (2) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree no experience is required. May or may not hold security clearances.

HSPD-12 SYSTEMS ANALYST

General Summary

Under general supervision, performs HSPD-12 systems analysis of computer and communications/network systems. Performs systems installation of computer operating systems, network, and applications software, and computer/network hardware. Provides hotline support to customers. Has ability to adapt to new situations and environments. Possesses keen troubleshooting skills to assist Sr. Systems Analysts.

Principal Duties and Responsibilities

1. Performs systems analysis of computer and networking systems.
2. Supports a Sr. Systems Analyst, as required.
3. Provides overall integration of all HSPD-12 systems peripherals so that they operate correctly within a predefined environment.
4. Provides hotline support to customers.
5. Develops technical documentation detailing the installation procedures.
6. May perform other duties, as assigned.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, three (3) years of general experience is acceptable. With a PhD, one (1) year of general experience is required. May or may not hold security clearances.

HSPD-12 SYSTEMS ARCHITECT

General Summary

Senior scientist who independently performs a variety of HSPD-12 system design and engineering tasks which are broad in nature and are concerned with design and implementation of major HSPD-12 systems development and integration, including supporting personnel, hardware, software, and support facilities and/or equipment. Supervises team of Sr. Systems Engineers, Network Engineers, Sr. Network Engineers, and Network Engineers through project completion and is considered a Subject Matter Expert (SME) in one or more specific areas of Personal Identity Verification (PIV).

Principal Duties and Responsibilities

1. Plans and performs HSPD-12 systems and networking engineering research, design development, and other assignments in conformance with system and network design, engineering, and customer specifications.
2. Supervises team of Sr. Systems Engineers, Systems Engineers, Sr. Network Engineers, and Network Engineers.
3. Responsible for highly complex HSPD-12 technical/engineering projects.
4. Coordinates the activities of Sr. Systems Engineers, Systems Engineers, Sr. Network Engineers, and Network Engineers assigned to specific system and network engineering projects.
5. Is the lead technical authority on the project.
6. May perform other duties, as assigned.

Job Specifications

Master's degree or equivalent and ten (10) years of general experience. A Bachelor's degree and nine (9) years of general experience is equivalent to a Master's degree or a High School Diploma (or equivalent) and fifteen (15) years of general experience is considered equivalent to a Master's degree. With a Doctorate, eight (8) years of general experience is acceptable. May or may not hold security clearances.

HSPD-12 SYSTEMS ENGINEER

General Summary

Under general supervision, defines and executes HSPD-12 systems engineering activities within a project. These activities may consist of HSPD-12 systems planning, information security planning, performance management, capacity planning, testing and validation, risk assessment, benchmarking, information engineering, and development and staffing of a systems engineering or security management plan.

Principal Duties and Responsibilities

1. Performs HSPD-12 systems engineering planning, information security planning, performance management, capacity planning, testing and validation, risk assessment, benchmarking, information engineering, security impact analysis.
2. Development and staffing of a HSPD-12 systems engineering or security management plan.

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3. Supports a Sr. Systems Engineer, as required.
 4. Analyzes and develops HSPD-12 technical documentation detailing the integration and system performance or information security.
 5. Coordinates the activities of Systems Engineers and Jr. Systems Engineers assigned to specific systems engineering projects.
 6. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and five (5) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, three (3) years of general experience is required. With a PhD, one (1) year of general experience is required. May or may not hold security clearances.

HSPD-12 SYSTEMS INTEGRATION ENGINEER

General Summary

Under general supervision, defines and executes integration engineering activities within a project. These activities may consist of concept exploration and assessment, systems integration, systems of systems integration, performance management, technology assessment, testing and validation, and development and staffing of a HSPD-12 systems integration plan.

Principal Duties and Responsibilities

1. Performs concept exploration and assessment, systems integration, systems of systems integration, performance management, technology assessment, testing and validation.
2. Supports a Sr. System Integration Engineer, as required.
3. Analyzes and develops HSPD-12 technical documentation detailing the integration and system performance.
4. May perform other duties as assigned.

Job Specifications

Bachelor's degree or equivalent and eight (8) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, six (6) years of general experience is required. With a PhD, four (4) years of general experience is required. May or may not hold security clearances.

HSPD-12 SYSTEMS OPERATOR

General Summary

Monitors and supports HSPD-12 systems and or subsystems.

Principal Duties and Responsibilities

1. Coordinates input, output, and final ID card production.
2. Distributes output and controls system operation that may be mainframe, mini, or client/server based solutions.

Job Specifications

High School Diploma and two (2) years of general experience. There is no experience substitution for a High School Diploma; however, a G.E.D., other degree equivalency program, or a technical trade school certificate is acceptable. With a Bachelor's degree, no experience is required. May or may not hold security clearances.

HSPD-12 TECHNICAL WRITER/EDITOR

General Summary

Assists in collecting and organizing information required for preparation of HSPD-12 user's manuals, HSPD-12 training materials, HSPD-12 installation guides, HSPD-12 proposals, and other HSPD-12 reports and deliverables. May have experience in Information Security.

Principal Duties and Responsibilities

1. Edits functional descriptions, system specifications, user's manuals, special reports, or any other customer deliverables and documents or information security related documents.

Job Specifications

Bachelor's degree or equivalent. Six (6) years of general experience is considered equivalent to a Bachelor's degree. May or may not hold security clearances.

HSPD-12 TRAINING SPECIALIST

General Summary

Conducts the research necessary to develop and revise HSPD-12 training courses.

Principal Duties and Responsibilities

1. Develops and revises these HSPD-12 courses and prepares appropriate HSPD-12 training catalogs.
2. Prepares instructor materials (course outline, background material, and training aids).
3. Prepares student materials (course manuals, workbooks, handouts, completion certificates, and course critique forms).
4. Trains personnel by conducting formal HSPD-12 classroom courses, workshops and seminars.

Job Specifications

Bachelor's degree or equivalent and two (2) years of general experience. Six (6) years of general experience is considered equivalent to a Bachelor's degree. With a Master's degree, no experience is required. May or may not hold security clearances.

SIN 132-62 HSPD-12 Services Price List

LABOR CATEGORY TITLE	OPTION YEAR 3 - SAIC SITE (ON-SITE) CEILING RATES				
	CY16	CY17	CY17	CY17	CY17
	7/1/2012 1/1/2013	1/2/2013 1/1/2014	1/2/2014 1/1/2015	1/2/2015 1/1/2016	1/2/2016 1/1/2017
HSPD-12 Data Entry/Analyst I	N/A	N/A	N/A	N/A	N/A
HSPD-12 Data Entry/Analyst II	N/A	N/A	N/A	N/A	N/A
HSPD-12 Data Entry/Analyst III	N/A	N/A	N/A	N/A	N/A
HSPD-12 Enterprise Consultant	\$167.41	\$170.76	\$174.18	\$177.66	\$181.21
HSPD-12 Functional Analyst	N/A	N/A	N/A	N/A	N/A
HSPD-12 Functional Specialist	N/A	N/A	N/A	N/A	N/A
HSPD-12 Hardware/Software Installation Technician	\$89.58	\$91.37	\$93.20	\$95.06	\$96.96
HSPD-12 Hardware/Software Specialist	\$97.73	\$99.68	\$101.67	\$103.71	\$105.78
HSPD-12 Help Desk Manager	\$131.48	\$134.11	\$136.79	\$139.53	\$142.32
HSPD-12 Help Desk Specialist	\$97.73	\$99.68	\$101.67	\$103.71	\$105.78
HSPD-12 Information Engineer I	\$44.32	\$45.21	\$46.11	\$47.03	\$47.97
HSPD-12 Information Engineer II	\$58.52	\$59.69	\$60.88	\$62.10	\$63.34
HSPD-12 Information Engineer III	\$71.50	\$72.93	\$74.39	\$75.88	\$77.40
HSPD-12 Information Engineer IV	\$84.50	\$86.19	\$87.91	\$89.67	\$91.46
HSPD-12 Information Engineer V	\$101.29	\$103.31	\$105.38	\$107.49	\$109.64
HSPD-12 Information Systems Engineer	N/A	N/A	N/A	N/A	N/A
HSPD-12 Jr. Enterprise Consultant	\$129.75	\$132.35	\$135.00	\$137.70	\$140.45
HSPD-12 Jr. Functional Specialist	N/A	N/A	N/A	N/A	N/A
HSPD-12 Jr. Programmer Analyst	\$87.89	\$89.65	\$91.44	\$93.27	\$95.14
HSPD-12 Jr. Systems Analyst	\$94.81	\$96.71	\$98.64	\$100.61	\$102.62
HSPD-12 Jr. Systems Engineer	\$94.81	\$96.71	\$98.64	\$100.61	\$102.62
HSPD-12 Network Architecture Engineer I	\$219.37	\$223.76	\$228.23	\$232.80	\$237.45
HSPD-12 Network Engineer	\$111.82	\$114.06	\$116.34	\$118.67	\$121.04
HSPD-12 Network Technician	\$88.41	\$90.18	\$91.99	\$93.83	\$95.70
HSPD-12 Operations Manager	\$143.08	\$145.94	\$148.86	\$151.83	\$154.87
HSPD-12 Program Manager	\$172.18	\$175.62	\$179.13	\$182.71	\$186.37
HSPD-12 Programmer Analyst	\$108.90	\$111.07	\$113.29	\$115.56	\$117.87
HSPD-12 Project Control Specialist	\$82.30	\$83.95	\$85.63	\$87.34	\$89.09
HSPD-12 Quality Assurance Analyst	\$82.30	\$83.95	\$85.63	\$87.34	\$89.09
HSPD-12 Sr. Enterprise Consultant	\$209.26	\$213.45	\$217.72	\$222.07	\$226.51
HSPD-12 Sr. Information Systems Engineer	N/A	N/A	N/A	N/A	N/A
HSPD-12 Sr. Network Engineer	\$121.54	\$123.97	\$126.45	\$128.98	\$131.56
HSPD-12 Sr. Network Installation Technician	\$96.94	\$98.88	\$100.86	\$102.87	\$104.93
HSPD-12 Sr. Program Manager	\$222.56	\$227.02	\$231.56	\$236.19	\$240.91
HSPD-12 Sr. Programmer Analyst	\$118.18	\$120.54	\$122.95	\$125.41	\$127.92
HSPD-12 Sr. Software Engineer	\$111.82	\$114.06	\$116.34	\$118.67	\$121.04
HSPD-12 Sr. Systems Analyst	\$120.87	\$123.29	\$125.75	\$128.27	\$130.83
HSPD-12 Sr. Systems Engineer	\$150.84	\$153.85	\$156.93	\$160.07	\$163.27
HSPD-12 Sr. Systems Integration Engineer	\$217.31	\$221.66	\$226.09	\$230.61	\$235.22
HSPD-12 Sr. Trainer	\$100.04	\$102.04	\$104.08	\$106.16	\$108.29
HSPD-12 Software Engineer	\$98.82	\$100.79	\$102.81	\$104.87	\$106.96
HSPD-12 Subject Matter Expert	\$242.25	\$247.10	\$252.04	\$257.08	\$262.22
HSPD-12 Systems Administrator	\$111.04	\$113.26	\$115.52	\$117.83	\$120.19

LABOR CATEGORY TITLE	OPTION YEAR 3 - SAIC SITE (ON-SITE) CEILING RATES				
	CY16	CY17	CY17	CY17	CY17
	7/1/2012 1/1/2013	1/2/2013 1/1/2014	1/2/2014 1/1/2015	1/2/2015 1/1/2016	1/2/2016 1/1/2017
HSPD-12 Systems Analyst	\$108.28	\$110.45	\$112.66	\$114.91	\$117.21
HSPD-12 Systems Architect	\$153.18	\$156.25	\$159.37	\$162.56	\$165.81
HSPD-12 Systems Engineer	\$111.82	\$114.06	\$116.34	\$118.67	\$121.04
HSPD-12 Systems Integration Engineer	\$182.88	\$186.53	\$190.26	\$194.07	\$197.95
HSPD-12 Systems Operator	\$96.94	\$98.88	\$100.86	\$102.87	\$104.93
HSPD-12 Technical Writer/Editor	\$78.91	\$80.49	\$82.10	\$83.74	\$85.41
HSPD-12 Training Specialist	\$96.93	\$98.87	\$100.85	\$102.86	\$104.92

LABOR CATEGORY TITLE	OPTION YEAR 3 - CUSTOMER SITE(OFF-SITE) CEILING RATES				
	CY16	CY17	CY17	CY17	CY17
	7/1/2012 1/1/2013	1/2/2013 1/1/2014	1/2/2014 1/1/2015	1/2/2015 1/1/2016	1/2/2016 1/1/2017
HSPD-12 Data Entry/Analyst I	\$24.17	\$24.66	\$25.15	\$25.65	\$26.17
HSPD-12 Data Entry/Analyst II	\$33.03	\$33.69	\$34.36	\$35.05	\$35.75
HSPD-12 Data Entry/Analyst III	\$44.48	\$45.37	\$46.28	\$47.20	\$48.15
HSPD-12 Enterprise Consultant	\$136.46	\$139.18	\$141.97	\$144.81	\$147.70
HSPD-12 Functional Analyst	\$53.43	\$54.50	\$55.59	\$56.70	\$57.83
HSPD-12 Functional Specialist	\$55.90	\$57.01	\$58.15	\$59.32	\$60.50
HSPD-12 Hardware/Software Installation Technician	\$78.85	\$80.42	\$82.03	\$83.67	\$85.35
HSPD-12 Hardware/Software Specialist	\$86.00	\$87.72	\$89.47	\$91.26	\$93.09
HSPD-12 Help Desk Manager	\$115.93	\$118.25	\$120.62	\$123.03	\$125.49
HSPD-12 Help Desk Specialist	\$86.00	\$87.72	\$89.47	\$91.26	\$93.09
HSPD-12 Information Engineer I	\$39.00	\$39.78	\$40.58	\$41.39	\$42.22
HSPD-12 Information Engineer II	\$51.51	\$52.54	\$53.59	\$54.66	\$55.76
HSPD-12 Information Engineer III	\$62.93	\$64.19	\$65.48	\$66.79	\$68.12
HSPD-12 Information Engineer IV	\$74.37	\$75.86	\$77.37	\$78.92	\$80.50
HSPD-12 Information Engineer V	\$89.14	\$90.92	\$92.74	\$94.59	\$96.49
HSPD-12 Information Systems Engineer	\$63.47	\$64.74	\$66.04	\$67.36	\$68.71
HSPD-12 Jr. Enterprise Consultant	\$105.74	\$107.86	\$110.02	\$112.22	\$114.46
HSPD-12 Jr. Functional Specialist	\$38.63	\$39.40	\$40.19	\$40.99	\$41.81
HSPD-12 Jr. Programmer Analyst	N/A	N/A	N/A	N/A	N/A
HSPD-12 Jr. Systems Analyst	\$83.44	\$85.10	\$86.81	\$88.54	\$90.31
HSPD-12 Jr. Systems Engineer	\$83.44	\$85.10	\$86.81	\$88.54	\$90.31
HSPD-12 Network Architecture Engineer I	\$219.37	\$223.76	\$228.23	\$232.80	\$237.45
HSPD-12 Network Engineer	\$98.40	\$100.37	\$102.37	\$104.42	\$106.51
HSPD-12 Network Technician	\$77.81	\$79.36	\$80.95	\$82.57	\$84.22
HSPD-12 Operations Manager	\$125.91	\$128.43	\$131.00	\$133.62	\$136.29
HSPD-12 Program Manager	\$150.54	\$153.55	\$156.62	\$159.76	\$162.95
HSPD-12 Programmer Analyst	N/A	N/A	N/A	N/A	N/A
HSPD-12 Project Control Specialist	\$72.42	\$73.87	\$75.35	\$76.85	\$78.39
HSPD-12 Quality Assurance Analyst	\$72.42	\$73.87	\$75.35	\$76.85	\$78.39
HSPD-12 Sr. Enterprise Consultant	\$170.91	\$174.33	\$177.82	\$181.37	\$185.00
HSPD-12 Sr. Information Systems Engineer	\$68.32	\$69.69	\$71.08	\$72.50	\$73.95
HSPD-12 Sr. Network Engineer	\$106.97	\$109.11	\$111.29	\$113.51	\$115.78
HSPD-12 Sr. Network Installation Technician	\$85.30	\$87.01	\$88.75	\$90.52	\$92.33
HSPD-12 Sr. Program Manager	\$205.55	\$209.66	\$213.85	\$218.13	\$222.49
HSPD-12 Sr. Programmer Analyst	\$104.00	\$106.08	\$108.20	\$110.36	\$112.57
HSPD-12 Sr. Software Engineer	\$98.40	\$100.37	\$102.37	\$104.42	\$106.51
HSPD-12 Sr. Systems Analyst	\$106.38	\$108.50	\$110.67	\$112.89	\$115.14
HSPD-12 Sr. Systems Engineer	\$132.73	\$135.39	\$138.09	\$140.86	\$143.67
HSPD-12 Sr. Systems Integration Engineer	\$189.39	\$193.18	\$197.05	\$200.99	\$205.01
HSPD-12 Sr. Trainer	\$88.04	\$89.80	\$91.59	\$93.42	\$95.29
HSPD-12 Software Engineer	\$86.97	\$88.70	\$90.48	\$92.29	\$94.13
HSPD-12 Subject Matter Expert	\$216.82	\$221.16	\$225.58	\$230.09	\$234.69
HSPD-12 Systems Administrator	\$97.71	\$99.66	\$101.65	\$103.69	\$105.76
HSPD-12 Systems Analyst	\$95.30	\$97.20	\$99.15	\$101.13	\$103.15

LABOR CATEGORY TITLE	OPTION YEAR 3 - CUSTOMER SITE(OFF-SITE) CEILING RATES				
	CY16	CY17	CY17	CY17	CY17
	7/1/2012 1/1/2013	1/2/2013 1/1/2014	1/2/2014 1/1/2015	1/2/2015 1/1/2016	1/2/2016 1/1/2017
HSPD-12 Systems Architect	\$134.81	\$137.51	\$140.26	\$143.07	\$145.93
HSPD-12 Systems Engineer	\$98.40	\$100.37	\$102.37	\$104.42	\$106.51
HSPD-12 Systems Integration Engineer	\$147.81	\$150.76	\$153.78	\$156.86	\$159.99
HSPD-12 Systems Operator	\$85.30	\$87.01	\$88.75	\$90.52	\$92.33
HSPD-12 Technical Writer/Editor	\$69.46	\$70.85	\$72.27	\$73.71	\$75.19
HSPD-12 Training Specialist	\$85.30	\$87.01	\$88.75	\$90.52	\$92.33

LEIDOS ISS-2000 & SABER

Leidos's Maritime Systems Operations in Newport, RI, has developed two unique surveying and processing products, **ISS-2000** and **SABER**, to provide professional hydrographers and surveyors with powerful, accurate, and efficient tools for planning and executing surveys, and for processing and analyzing hydrographic survey data.

Leidos's **ISS-2000** Integrated Survey System supports a broad range of high performance, shallow and deep water survey operations including search and locate, mapping, and charting. **ISS-2000** has proven International Hydrographic Organization (IHO) accuracy in high speed, shallow water surveying and processing operations. Powerful acquisition and visualization capabilities give ISS-2000 higher efficiency and data yields while maintaining real-time quality assurance.

ISS-2000 is a fully developed Leidos product that offers a range of survey planning capabilities and data collection features. Its modular components are offered in price-performance packages that include fully integrated sensor suites with data acquisition systems and software, and which are scalable to transportable/portable models. Compatible with **SABER**, **ISS-2000** interfaces to internationally recognized sensors including both multibeam and singlebeam echosounders, GPS receivers, motion sensors, gyros, acoustic positioning systems, and autopilots.

Leidos's **SABER** (Survey Analysis and area Based EditoR) processes, edits, updates, views and analyzes hydrographic survey data. **SABER** efficiently processes massive data volumes and allows the operator to view the data geographically, review and assess fliers identified by the filter, compare multiple sources of bathymetry data, and perform interactive editing. Survey analysis with **SABER** provides the required file lists and time windows, generates tracklines, processes all navigation data, and applies any necessary correctors as well as automatic ping and beam flag filtering.

The Area Based Editor replaces labor intensive line by line interactive editing, allowing operators to view and edit all data in an area simultaneously, directly retaining those edits in the full-resolution data files. By dividing large survey areas into sub-areas, **SABER** can systematically edit, filter, and smooth position data while recalculating depth data for different sound velocity profiles, and recalculating multibeam alignment calibrations for roll/pitch/azimuth offsets, and transducer and antenna mounting positions. **SABER** data products include volumetric reports for channel analysis; plots of final contours, tracklines and coverage; and junction analysis reports, smooth sheets and profile plots.

Leidos has successfully used **ISS-2000** and **SABER** to conduct surveys for the National Oceanic and Atmospheric Administration (NOAA), the Naval Oceanographic Office (NAVOCEANO), the US Army Corps of Engineers, the University of New Hampshire, and various commercial clients worldwide. Leidos's Maritime Systems Operations works closely with clients to determine appropriate solutions for their survey system needs, and adapts **ISS-2000** and **SABER** for their specific applications.

For questions and comments pertaining to the **SABER** product line please contact the following:

Ernest C. Helme III
Phone : 401-847-4210 x54772
Fax : 401-688-5618
Email : ernest.c.helme@leidos.com

ISS-2000 & Saber Price List

SIN	MANUFACTURER	DEALER	PART NUMBER	PRODUCT DESCRIPTION	GSA PRICE
132-33	Leidos	Leidos	ISS100-0100	ISS-2000 Survey Planning Base System	\$4,282
132-33	Leidos	Leidos	ISS100-0200	ISS-2000 Real Time Data Acquisition & Display Base System	\$8,563
132-33	Leidos	Leidos	ISS100-0300	ISS-2000 Integrated/SW Installed on Rack Mount Computer	\$17,126
132-33	Leidos	Leidos	ISS100-0400	ISS-2000 Multibeam Interface Option	\$8,563
132-33	Leidos	Leidos	ISS100-0500	ISS-2000 POS/MV Interface Acquisition Option	\$2,569
132-33	Leidos	Leidos	ISS100-0600	ISS-2000 Brooke MVP Interface Acquisition Option	\$2,140
132-33	Leidos	Leidos	ISS100-700	ISS-2000 Additional Multibeam Interface (each)	\$2,140
132-33	Leidos	Leidos	ISS100-0900	ISS-2000 Underwater Navigation Long Baseline (LBL) Option	\$5,138
132-33	Leidos	Leidos	ISS100-1000	ISS-2000 Integrated/SW Installed on Helm Display Computer	\$6,422
132-33	Leidos	Leidos	SB100-0100	SABER Survey Analysis Base System	\$8,563
132-33	Leidos	Leidos	SB100-0200	SABER Area-Based Editor Option	\$4,282
132-34	Leidos	Leidos	SB100-2000	SABER System Maintenance	15% for each product ordered
132-50	Leidos	Leidos	SB100-0100 Leidos Site	ISS-2000 Real Time Data Acquisition and Survey Planning Training. Five-day class. Price is per student at Leidos's Newport, RI facility. Additional cost per student is \$2100	\$2,393
132-50	Leidos	Leidos	SB100-0100 Client Site	ISS-2000 Real Time Data Acquisition and Survey Planning Training. Five-day class. Price is for 12 students at Client Site. Additional cost per student is \$2100	\$23,926
132-50	Leidos	Leidos	SB100-0200 Leidos Site	SABER Training. Five-day class. Price is per student at Leidos's Newport, RI facility. Additional cost per student is \$2100	\$2,393
132-50	Leidos	Leidos	SB100-0200 Client Site	SABER Training. Five-day class. Price is for 12 students at Client Site. Additional cost per student is \$2100.	\$23,926

Leidos RUGGED IT SOLUTIONS

The Leidos Sterling Integration Facility develops, designs, and manufactures cost-effective COTS Information Technology (IT) solutions for military and industrial applications. Our innovative concepts for compact, rugged and reliable systems are built to withstand shock, vibration, moisture, dirt and dust. Whether aboard a ship, aircraft, vehicle, or land-based, our rugged line of IT products are designed to withstand the harshest environments. Sterling Integration is also an ISO 9001:2000 certified organization. For additional information and descriptive literature on each of the products, go to www.tacinfosys.com.

WARRANTY FOR STANDARD PRODUCTS and Return Material Authorization Procedures

**Please read the information below before you
REQUEST AN RMA NUMBER**

Warranty:

Leidos shall provide a one-year warranty against defects in material workmanship. Leidos will, at its sole discretion, repair or replace any product within one year of sale date which is examined and determined to be defective. All returns shall be sent to Leidos Sterling Integration 22635 Davis Drive Dr., Suite 160 Sterling, VA 20164. Shipping expenses will be the sole responsibility of the buyer.

Leidos's liability under this warranty shall be limited to the repair or replacement of the defective unit. In no event shall Leidos be responsible for collateral or consequential damages.

Returned units shall require a RMA (returned material authorization) number available from Leidos. Returned units will not be accepted without both a RMA number and a copy of the Purchase Order. Leidos shall retain the right to utilize refurbished materials to complete any repair/replacement. All returned units shall be repaired/replaced within 120 days from receipt of defective unit. Any warranty/repair shall not extend the original one-year warranty period from date stated on Purchase Order.

This warranty does not cover units which are defective due to misuse, abuse, improper installation, neglect, improper shipping, damage caused by disaster, improper electrical current, or improper use of software.

This warranty does not cover units which have been altered or repaired by anyone other than Leidos's Sterling Integration Facility.

This warranty does not cover consumables such as fuses, lamps, etc.

If a claimed defect cannot be identified or replicated at Leidos's Sterling Integration Facility, buyer will be responsible for all costs incurred.

Buyer agrees that there is no warranty of merchantability or fitness for a particular use, express or implied, which extend beyond the scope of this warranty agreement.

Post Warranty Returns:

Items outside one (1) year warranty period.

Leidos will evaluate and determine costs of repair for a fee of \$350. After receipt of PO for evaluation fee and non-warranty item, Leidos will provide an estimate of repair no later than 15 business days. If the associated labor, materials, and shipping does not exceed the \$350 evaluation fee, Leidos will repair the item and return it to the customer. If the estimate of repair exceeds the \$350 evaluation fee, the \$350 fee will be credited to the total cost of repair.

After customer receipt of repair estimate Leidos will return the item to the customer if Leidos hasn't received a repair contract after 60 days.

Leidos will return the repaired item no later than 90-days after receipt of repair contract.

Customers shall follow standard Return Material Authorization (RMA) procedures for post warranty repair returns.

Leidos will provide a 90-day warranty from day of shipment for parts that are repaired or replaced under a non-warranty contract.

Hardware:

"Leidos expressly warrants the products provided under this contract as meeting the applicable Leidos product specifications. Leidos makes no other warranties, either express or implied (including, without limitation, warranties as to merchantability or fitness for a particular purpose). Purchaser retains responsibility for the application and functional adequacy of the offering. In addition, the following shall constitute the exclusive remedies for any breach by Leidos of its warranties hereunder: Leidos warrants that all products provided under this contract shall be free from defects in material, workmanship, and title. Leidos agrees to either replace or repair, free of charge, any such product, component, or part thereof which shall be returned to the nearest authorized repair facility, provided that the defect is discovered within 1 year from date of delivery; transportation charges for return to repair facility prepaid by purchaser. Return transportation to purchaser shall be at Leidos expense. Any product or component, or part thereof so replaced or repaired shall be warranted by Leidos for the remainder of the original warranty period or 3 months, whichever is longer. Any and all such replacements or repairs necessitated by inadequate preventive maintenance, or by normal wear and usage, or by the fault of purchaser, shall be at purchaser's expense."

Currently Warranted Products:

The following Leidos products are covered by the standard product warranty stated above:

- Color Monitor Products
- LCD Flat Panel Display Products
- CLSD Projector Products
- Rack Install Kit Products
- Passive LINK-11 Tap Products
- Power Distribution Assembly Product Line

Return Material Authorization Procedures:

Returned units shall require a Returned Material Authorization (RMA) number available from the Tactical Information Systems Division of Leidos. Contact Leidos SI Engineering Support at (703) 676 - 9100, complete our online RMA request form at <http://www.tacinfosys.com/asp-pages/forms/rma.html>, or email: rma-tisd@leidos.com, to obtain an RMA number. Supply the Leidos Part Number and Leidos Serial Number of the product to be repaired. If available, the original Purchase Order Number should also be provided.

Products for repair should be shipped postage pre-paid to Leidos Sterling Integration (SI). Products will not be accepted without an RMA number. Please place the RMA number on the outside of the package. Leidos shall retain the right to utilize refurbished materials to complete any repairs/replacement. All returned units shall be repaired or replaced by SI within ninety (90) to one hundred twenty (120) calendar days from receipt at SI. Return shipment of repaired products will be at SI expense. All shipping costs for products outside of the warranty period will be at customer's expense.

All products being returned for either warranty or other required repair service should be shipped to:

Leidos Sterling Integration
22635 Davis Drive Dr., Suite 160
Sterling, VA 20164
ATTN: RMA Department/Engineering Support / RMA# _____

It is the responsibility of the customer to provide Leidos Sterling Integration with return shipping instructions.

NOTE: The Standard Warranty and Return Material Authorization Procedures depicted above are subject to change without prior written notice.

SIN	MANUFACTURER	DEALER	PART NUMBER	PRODUCT DESCRIPTION	GSA PRICE
132-12	Leidos	Leidos	RMA	Return Material Authorization (RMA) for Sterling Integration	\$300

GEOROVER® SOFTWARE PRODUCTS

GeoRover geospatial software products are developed by Leidos and are designed and sold as extensions or "plug-ins" to the ArcMap™ component of Environmental Systems Research Institute (Esri®) ArcGIS® Desktop GIS software versions 8.x, 9.x, and 10.

Locus Track – powerful tools for geospatial feature data creation, editing, and geospatial data fusion

The GeoRover Locus Track extension is developed by Leidos to work with the commercial Esri ArcGIS Desktop software (ArcView®, ArcEditor™, or ArcInfo®). The extension loads a single toolbar into the ArcMap component of ArcGIS, streamlining and enhancing the process of creating, editing, importing, and sharing data with a combination of robust and flexible interactive editing tools and data import/export wizards. The tools present many of the most common and requested functions in a simple, efficient interface, greatly reducing the steps required to accomplish basic tasks, saving valuable time and reducing required training.

- Interactive (point-and-click) and coordinate-based tools for creating, editing, and deleting points, lines, areas, and rows
- Tools can edit existing shapefiles and geodatabase feature classes (personal, file, and enterprise ArcSDE®), and can create new shapefiles "on-the-fly" within the ArcMap interface
- Supports DD, DM, DMS, UTM, MGRS, and XY coordinate formats. All tools employ robust, smart, and flexible coordinate parsing capabilities
- Wizard-driven import of points, lines, or areas from coordinates in any delimited text (.csv, .txt, .tab, etc), Excel® spreadsheet, database (Access, Oracle®, SQL Server®, etc.), or even semi-structured copy/pasted text
- Export Wizard capable of exporting ArcMap layers into common formats, such as HTML pages, Excel spreadsheets, text, and customizable PowerPoint® slide show products
- Attribute editing tool allows for one-step database editing of any layer and the ability to add new attribute fields
- Add coordinate attributes (Lat/Lon, DD, DM, DMS, UTM, MGRS, or XY) to any point layer for one-step coordinate conversion. Coordinate attributes are verified and updated each time point features are moved or edited
- Add one or more linked files (video, images, audio, documents, slides, spreadsheets, databases, etc.) or Web sites to any point, line, or polygon feature

Digital Data Tracker – flexible GPS software tools that easily work with field collected data including data collected from geotagging devices; also supports real-time GPS navigation

The GeoRover Digital Data Tracker extension integrates a global positioning system (GPS) device and geotagged data with the commercial Esri ArcGIS Desktop software (ArcView, ArcEditor, or ArcInfo). It provides geographic information systems (GIS) tools for easily importing track logs and waypoint logs from a variety of GPS receivers, including receivers that support GPS exchange format (GPX) files or GPS-tagged data, and displays these imported formats within the ArcMap component of the ArcGIS Desktop application.

Using the GPS receiver track log information, digital media (images, video clips, audio clips, text) collected in the field, can automatically be georeferenced. Track logs and georeferenced data layers are saved as shapefiles or can be added to existing feature classes in a personal or ArcSDE® geodatabase. The result is an interactive map display with links to field data or geotagged data that can be exported as a web page for easy geospatial information sharing. Specific waypoints or routes can also be uploaded to a GPS receiver.

- Download track logs, waypoints, and routes from GPS receivers into new or existing ArcMap layers

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- Upload waypoints or routes from the ArcMap application to a GPS receiver
 - Support for Garmin® GPS receivers (serial and USB), GPX files, GPS-tagged data, Magellan® (serial), and NMEA GPS protocols. Also, supports popular Garmin nüvi® series GPS receivers
 - Automatically geolocates and plots digital media (images, video clips, audio recordings, etc.) by correlating the collected field data with the GPS track log information
 - Import and export track log, waypoint, route, and linked data to and from GPX files
 - Create and manage related offset (subject and collection) points by leveraging range and bearing information
 - Convert track log points to lines
 - Real-time track log with moving map display for GPS navigation includes heading and current coordinate readout
 - Use the Geolocation Wizard to georeference data using non-standard track logs, different time offset methods, and to set up real-time geolocation functionality with the real-time track log mode
 - Automatically plot geotagged data for display in the ArcMap application
 - Access georeferenced field data or geotagged data from maps and images with simple point and click
 - Add new points to existing geolocated data by clicking on display or entering coordinates (DD, DM, DMS, UTM, MGRS)
 - Add/change linked data (video, images, audio, documents, slides, spreadsheets, databases, URLs, etc.) using standard Windows Explorer interface
 - Export ArcMap display and layers into interactive HTML file with hyperlinks and user-defined pop-up labels

RPF Tools – high-speed indexing, display, and management of large file-based raster product format (RPF) datasets, typically map and imagery data

GeoRover RPF Tools is an extension developed by Leidos to work with the Environmental Systems Research Institute (Esri) commercial ArcGIS Desktop software. The GeoRover RPF Tools extension loads into the ArcMap component of ArcGIS and will function in any level of licensing (ArcView, ArcEditor, or ArcInfo).

The extension provides the capability to create map indexes from any file-based source of raster product format (RPF) data and view the index within ArcMap. Common RPF formats include Compressed ARC Digitized Raster Graphics (CADRG) and Controlled Image Base® (CIB®).

- Rapid map index creation from RPF data in any directory structure
- Create and work with map indexes in ArcMap; no requirement to use ArcCatalog™
- Add new RPF data to existing indexes; most recent data is automatically selected for the index
- Wireframe and product controls conveniently located in ArcMap Table of Contents
- Selection tools for custom selection of map product(s) coverage areas
- Copy map data tools for chipping-out subsets of existing map indexes/data and moving to new location
- Delete map data functionality for removing unwanted data and reclaiming disk space
- Special zoom tool for efficient navigation through map product sets
- Integrates ArcMap Identify tool for viewing crucial RPF metadata
- Work with large RPF datasets concurrently with both ArcMap and FalconView™
- Ideal for disconnected and operational users

Range Tools - geospatial feature data creation, editing, and ingestion of ring, ellipse, and arc feature data

The GeoRover Range Tools extension is developed by Leidos to work with the Esri ArcGIS Desktop software (ArcView, ArcEditor, or ArcInfo). The extension loads a single toolbar into the ArcMap component of ArcGIS, providing powerful and interactive tools for creating, editing, and importing ring, ellipse, and arc feature layers.

- Interactive (point-and-click) and coordinate-based tools for creating, editing, and deleting ring, ellipse, and arc features from shapefiles and geodatabase feature classes (personal, file, and enterprise ArcSDE) "on-the-fly" within the ArcMap interface
- Wizard-driven import tool creates or updates ring, ellipse, or arc feature layers from any delimited text file (.csv, .txt, .tab, etc.) Excel spreadsheet, database (Access, Oracle, SQL Server, etc.), or even semi-structured copy/pasted text with coordinates
- Updating feature parameter values (radius, diameter, heading, sweep, semi/major axis, semi/minor axis) updates feature size/shape instantly
- Supports Decimal degrees (DD), degrees Decimal Minutes (DM), degrees Minutes Seconds (DMS), Universal Transverse Mercator (UTM), Military Grid Reference System (MGRS), and XY coordinates in any available units. All tools employ robust, smart, and flexible coordinate parsing capabilities
- Range features are always geodetically correct when created and edited using the Range tools extension
- One-click button for displaying/hiding range feature center points
- Options menu available for customizing user preferences and default settings including add/edit and layer symbology, feature creation methods, and coordinate system behavior

MIMapView – tools used to track Full Motion Video (FMV) feeds inside of the ArcMap application for situational awareness

The GeoRover MIMapView extension is developed by Leidos and provides tools for situational awareness by integrating full motion video (FMV) feeds from Unmanned Aerial Vehicles (UAVs) or other platforms with the commercial Esri ArcGIS Desktop application (ArcView, ArcEditor, or ArcInfo). MIMapView provides tools that are designed to work with Motion Imagery Standards Profile (MISP) compliant video feeds, a standard format used by many Unmanned Aerial Vehicle (UAV) platforms.

- Displays metadata information for any Motion Imagery Standards Profile (MISP)-compliant FMV feed
- Zoom To option menu provides options to 'Zoom To Platform', 'Zoom To Image', or 'Zoom To Platform and Image' (extent of both)
- Zoom To and Pan To option settings for each platform/image footprint
- Provides options to 'Keep On Map' and 'Keep Centered' to provide optimal viewing settings for watching metadata information
- Provides options for adding, editing and removing feeds
- Customizable symbology for each feed

Display Platform Location

- Track multiple platforms simultaneously in the ArcMap™ application using different symbols/colors for easy identification.
- Historical platform track can be displayed in the ArcMap application

Display Platform video feed location

- Display platform video feed location (video footprint) by reading metadata from real-time FMV

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- Plots are based on real-time or archived data
 - Automatic sensor footprint sizing based on metadata
 - Tracks and manages multiple video feed simultaneously in the ArcMap application
 - Works with Motion Imagery Standards Profile (MISP)-compliant video streams with KLV metadata
 - Enables personnel to perform multiple tasks under one common Esri ArcGIS application
 - Can be used with Leidos GeoRover RPF Tools to ensure mission information is displayed over best available NGA raster map products (Compressed ARC Digitized Raster Graphics [CADRG] and Controlled Image Base [CIB®])
 - Proven performance using cost-effective COTS solutions
 - Can be configured to work with Leidos VPC/ MITools feeds
 - Increases productivity by enabling users to track FMV feed locations in a geospatial context and quickly react to mission information

Coordinate Viewer & Zoom Tools – rapid map zooming and enhanced coordinate functionality

The GeoRover Coordinate Viewer and Zoom Tools extensions are developed by Leidos to work with the commercial Esri ArcGIS Desktop software (ArcView, ArcEditor, or ArcInfo). The extensions load as toolbars into the ArcMap component of ArcGIS, providing rapid map zooming and enhanced coordinate functionality. Capabilities include flexible and robust coordinate parsing and searching, real-time coordinate display, and the ability to retrieve coordinates from the map.

- Viewing window simultaneously displays up to six different coordinate system formats in real-time, based on cursor position, regardless of which ArcMap tool is being used
- Zoom to any scale and/or known specific coordinate location
- Interface performs instant coordinate conversion between all supported coordinate formats: Decimal degrees (DD), degrees Decimal Minutes (DM), degrees Minutes Seconds (DMS), Universal Transverse Mercator (UTM), Military Grid Reference System (MGRS), and XY
- Options allow for user preferred coordinate format (structure) and display style (font, size, color)
- Copy any individual coordinate from map to clipboard with single-click or use coordinate lists tool to copy multiple coordinates
- Viewing window is resizable and can be docked to the ArcMap interface
- Coordinate list tool "batch" copying capability provides fastest possible means to export multiple coordinates from map to clipboard

GeoRover Software Annual Maintenance is available for purchase at a prorated fee based on a month-to-month calculation. It is intended for customers that require the annual maintenance Period of Performance (POP) to have the same date. Determine the prorated maintenance fee by calculating the amount of time between the existing POP end date and the desired POP end date. The prorated fee is the monthly maintenance rate for each whole month in the prorated time period. If there are 15 or fewer days remaining outside a whole month the fee will be calculated as a half month. If there are 16 or more days remaining outside a whole month the fee will be calculated as a whole month. Customers buying new GeoRover software licenses are required to purchase the minimum annual maintenance term to be eligible to purchase maintenance at a prorated fee.

Typical **GeoRover® software training** classes conducted at an Leidos location or a customer location are typically one (1) to (5) days in length depending on class skill level. These class topics are instructor-led, hands on training for one (1) to (5) students. This training daily rate includes commutable travel equal to or less than one hour travel time from the instructor's home base office to the customer location/facility.

GeoRover Customer Site Training, half day travel**

Customers who would rather have Instructor-led training at their site can purchase a fixed price rate to cover travel time to and from a client site. Half day travel equates to greater than one hour and equal to or less than four hours travel time from the instructor's home base office to the customer location/facility.

GeoRover Customer Site Training, full day travel**

Customers who would rather have Instructor-led training at their site can purchase a fixed price rate to cover travel time to and from a client site. Full day travel equates to greater than four hours travel time from the instructor's home base office to the customer location/facility.

** Additional travel costs will be incurred for travel time to customer site. Customer site Training will also require that the customer reimburse at cost for all travel expenses (transportation, lodging, per diem).

Leidos GeoRover Team

Phone: 1-888-886-5909

Web site: <http://www.georover.com/>

SIN	MANUFACTURER	DEALER	PART NUMBER	PRODUCT DESCRIPTION	GSA PRICE
132-33	GeoRover	Leidos	LTK001	GeoRover Locus Track Extension Software License (Qty 1-25)	\$1,050
132-33	GeoRover	Leidos	LTK002	GeoRover Locus Track Extension Software License (Qty 26-50)	\$945
132-33	GeoRover	Leidos	LTK003	GeoRover Locus Track Extension Software License (Qty 51-100)	\$787
132-33	GeoRover	Leidos	LTK004	GeoRover Locus Track Extension Software License (Qty 101+)	\$630
132-33	GeoRover	Leidos	DDT001	GeoRover Digital Data Tracker Extension Software License (Qty 1-25)	\$525
132-33	GeoRover	Leidos	DDT002	GeoRover Digital Data Tracker Extension Software License (Qty 26-50)	\$421
132-33	GeoRover	Leidos	DDT003	GeoRover Digital Data Tracker Extension Software License (Qty 51-100)	\$315
132-33	GeoRover	Leidos	DDT004	GeoRover Digital Data Tracker Extension Software License (Qty 101+)	\$210
132-33	GeoRover	Leidos	RPF001	GeoRover RPF Tools Extension Software License (Qty 1-25)	\$892
132-33	GeoRover	Leidos	RPF002	GeoRover RPF Tools Extension Software License (Qty 26-50)	\$787
132-33	GeoRover	Leidos	RPF003	GeoRover RPF Tools Extension Software License (Qty 51-100)	\$630
132-33	GeoRover	Leidos	RPF004	GeoRover RPF Tools Extension Software License (Qty 101+)	\$473
132-33	GeoRover	Leidos	RNG001	GeoRover Range Tools Extension Software License (Qty 1-25)	\$892
132-33	GeoRover	Leidos	RNG002	GeoRover Range Tools Extension Software License (Qty 26-50)	\$787
132-33	GeoRover	Leidos	RNG003	GeoRover Range Tools Extension Software License (Qty 51-100)	\$630
132-33	GeoRover	Leidos	RNG004	GeoRover Range Tools Extension Software License (Qty 101+)	\$473
132-33	GeoRover	Leidos	MMV01	GeoRover MIMap View Extension Software License (Qty 1-25)	\$892
132-33	GeoRover	Leidos	MMV02	GeoRover MIMap View Extension Software License (Qty 26-50)	\$787
132-33	GeoRover	Leidos	MMV03	GeoRover MIMap View Extension Software License (Qty 51-100)	\$630
132-33	GeoRover	Leidos	MMV04	GeoRover MIMap View Extension Software License (Qty 101+)	\$473
132-33	GeoRover	Leidos	LTKM01	GeoRover Locus Track Extension Annual Maintenance	\$105
132-33	GeoRover	Leidos	DDTM01	GeoRover Digital Data Tracker Extension Annual Maintenance	\$56
132-33	GeoRover	Leidos	RPFM01	GeoRover RPF Tools Extension Annual Maintenance	\$89
132-33	GeoRover	Leidos	RNGM01	GeoRover Range Tools Extension Annual Maintenance	\$89
132-33	GeoRover	Leidos	MMVM01	GeoRover MIMap View Extension Annual Maintenance	\$89
132-50	GeoRover	Leidos	TRN001	GeoRover Instructor-led Classroom Training (1-day)	\$1,732
132-50	GeoRover	Leidos	TRN002	GeoRover Customer Site Training, Half-day Travel	\$630
132-50	GeoRover	Leidos	TRN003	GeoRover Customer Site Training, Full-day Travel	\$1,260

TERATEXT

The TeraText® Database Systems (DBS) is the next-generation system for text. Designed to maximize the lifetime value of your text assets, this unique system is enterprise-wide and global, linking disparate information sources housed in multiple locations. It's fast. It's accurate. It's scalable - and it manages text ranging from a few gigabytes to terabyte-size and beyond, making huge text solutions both affordable and fast. The TeraText DBS is multilingual and supports over 250 document types. The dynamic, XML-native TeraText DBS conforms to industry standards for maximum interoperability on multiple hardware platforms. Its flexibility and adaptability allow it to integrate with both legacy systems and desktop applications. Its sophisticated compression technology and indexing capabilities keep indexes to a manageable size so that large data problems do not become even larger. With applications in the intelligence, legislation management, technical documentation, information portals, education, publishing, [clinical](#) research, patenting and FDA clearance we can provide solutions for many different types of text intensive projects.

For immediate assistance in placing an order, please contact:

Charles H. Wagner

Phone: 585-442-2642

Fax: 585-486-1366

Email: wagnerch@leidos.com

SIN	MANUFACTURER	DEALER	PART NUMBER	PRODUCT DESCRIPTION	GSA PRICE
132-33	TeraText	Leidos	TT-WIN-LNX-32-DEVO	Development for Windows or Linux-32 per developer	\$6,045.00
132-33	TeraText	Leidos	TT-LNX-64 BASE	TeraText Linux-64 Base License Fee (must be combined with CPU charge)	\$13,601.25
132-33	TeraText	Leidos	TT-LNX-64 1-9	TeraText Linux-64 per CPU Fee for 1-9 CPUs (must be combined with LNX-64 Base Fee)	\$12,694.50
132-33	TeraText	Leidos	TT-LNX-64 10-29	TeraText Linux-64 per CPU Fee for 10-29 CPUs (must be combined with LNX-64 Base Fee)	\$11,485.50
132-33	TeraText	Leidos	TT-LNX-64 30-49	TeraText Linux-64 per CPU Fee for 30-49 CPUs (must be combined with LNX-64 Base Fee)	\$8,463.00
132-33	TeraText	Leidos	TT-LNX-64 50-69	TeraText Linux-64 per CPU Fee for 50-69 CPUs (must be combined with LNX-64 Base Fee)	\$7,254.00
132-33	TeraText	Leidos	TT-LNX-64 70+	TeraText Linux 64 per CPU Fee for 70 or more CPUs (must be combined with LNX-64 Base Fee)	\$4,836.00
132-33	TeraText	Leidos	TT-SUN BASE	TeraText SUN Base License Fee (must be combined with SUN CPU charge)	\$16,321.50
132-33	TeraText	Leidos	TT-SUN 1-9	TeraText SUN per CPU Fee for 1-9 CPUs (must be combined with SUN Base Fee)	\$14,810.25
132-33	TeraText	Leidos	TT-SUN 10-29	TeraText SUN per CPU Fee for 10-29 CPUs (must be combined with SUN Base Fee)	\$13,601.25
132-33	TeraText	Leidos	TT-SUN 30-49	TeraText SUN per CPU Fee for 30-49 CPUs (must be combined with SUN Base Fee)	\$8,840.81
132-33	TeraText	Leidos	TT-SUN 50-69	TeraText SUN per CPU Fee for 50-69 CPUs (must be combined with SUN Base Fee)	\$7,556.25

SIN	MANUFACTURER	DEALER	PART NUMBER	PRODUCT DESCRIPTION	GSA PRICE
132-33	TeraText	Leidos	TT-SUN 70-99	TeraText SUN per CPU Fee for 70-99 CPUs (must be combined with SUN Base Fee)	\$7,254.00
132-33	TeraText	Leidos	TT-SUN 100+	TeraText SUN per CPU Fee for 100 or more CPUs (must be combined with SUN Base Fee)	\$4,836.00
132-33	TeraText	Leidos	MN-LNX-64 BASE	Maintenance TT Linux-64 Base License Fee (must be combined with CPU charge)	\$3,037.50
132-33	TeraText	Leidos	MN-LNX-64 1-9	Maintenance TT Linux-64 per CPU Fee for 1-9 CPUs (must be combined with LNX-64 Base Fee)	\$2,835.00
132-33	TeraText	Leidos	MN-LNX-64 10-29	Maintenance TT Linux-64 per CPU Fee for 10-29 CPUs (must be combined with LNX-64 Base Fee)	\$2,565.00
132-33	TeraText	Leidos	MN-LNX-64 30-49	Maintenance TT Linux-64 per CPU Fee for 30-49 CPUs (must be combined with LNX-64 Base Fee)	\$1,890.00
132-33	TeraText	Leidos	MN-LNX-64 50-69	Maintenance TT Linux-64 per CPU Fee for 50-69 CPUs (must be combined with LNX-64 Base Fee)	\$1,620.00
132-33	TeraText	Leidos	MN-LNX-64 70+	Maintenance TT Linux 64 per CPU Fee for 70 or more CPUs (must be combined with LNX-64 Base Fee)	\$1,080.00
132-33	TeraText	Leidos	MN-SUN BASE	Maintenance TT SUN Base License Fee (must be combined with SUN CPU charge)	\$3,645.00
132-33	TeraText	Leidos	MN-SUN 1-9	Maintenance TT SUN per CPU Fee for 1-9 CPUs (must be combined with SUN Base Fee)	\$3,307.50
132-33	TeraText	Leidos	MN-SUN 10-29	Maintenance TT SUN per CPU Fee for 10-29 CPUs (must be combined with SUN Base Fee)	\$3,037.50
132-33	TeraText	Leidos	MN-SUN 30-49	Maintenance TT SUN per CPU Fee for 30-49 CPUs (must be combined with SUN Base Fee)	\$1,974.60
132-33	TeraText	Leidos	MN-SUN 50-69	Maintenance TT SUN per CPU Fee for 50-69 CPUs (must be combined with SUN Base Fee)	\$1,687.50
132-33	TeraText	Leidos	MN-SUN 70-99	Maintenance TT SUN per CPU Fee for 70-99 CPUs (must be combined with SUN Base Fee)	\$1,620.00
132-33	TeraText	Leidos	MN-SUN 100+	Maintenance TT SUN per CPU Fee for 100 or more CPUs (must be combined with SUN Base Fee)	\$1,080.00



CyberNEXS – A Cyber Security Gaming/Training Exercise Platform

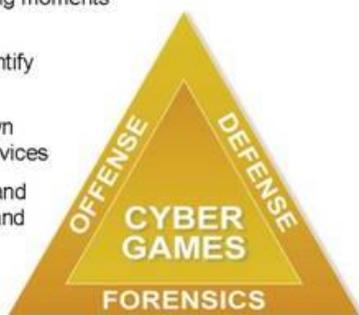
Leidos’s award winning software environment, Cyber Network EXercise System (CyberNEXS) is a high-performance cyber security training and exercise environment that can be purchased as a training package or for remote offensive-defensive gaming competitions. CyberNEXS sets the industry standard for high-performance cyber security platforms that provide a virtual, highly scalable, and real-time scoring exercise. Leidos's CyberNEXS enhances and prepares cybersecurity and IT professional’s ability to protect critical data assets by training and competing in a challenging, realistic gaming environment. The CyberNEXS scoring system is unique in its ability to track, record, and score results, providing clear and concise digital analytics by team and by individual.

CyberNEXS provides a live exercise environment consisting of Windows and UNIX operating systems, network and security devices, as well as other information resources. The CyberNEXS environment can be reached from anywhere around the globe. It applies a client-server architecture, which allows greater flexibility in the selection of scoring criteria, and scalability to connect to hundreds of simultaneous participants in remote games. Training and exercises include: Cyber Defense, Offense (Penetration Testing and Capture the Flag), and Analytics (Forensics).

CyberNEXS is unique because it provides realistic emulation of real-world enterprise architectures, with a real-time scoring system that quantifies performance in six key skills (noted in graphic below). The scoring system is highly configurable to meet individual training/exercise goals, and provides a high level of fidelity in data captured. The displays are real-time and provide different windows into the results, which can provide valuable insight for instructors to use when refining their curriculum. Additionally, there are two modes of service delivery that permit hundreds of asynchronous participants to exercise and compete against each other, as well as user-friendly automated tools to empower the end user. For exercises, CyberNEXS is meaningful for ages 13 and up. We have real-world experience that teens can successfully employ security techniques as long as they have a way to practically apply that instruction, and understand the fundamental principles and ethics involved. The complexity of the targets and the games can be varied to challenge even the most senior of cyber security professionals.

Realistically Train as you expect to Operate

1. Maintain critical services even during moments of intrusion and misuse
2. Conduct Penetration Testing to identify vulnerabilities
3. Harden Systems by removing known vulnerabilities and unnecessary services
4. Recognize and respond to hacker and computer misuse activity (Monitor and Forensics)
5. Collect & Analyze Forensics Data
6. Communicate effectively



The Need for Comprehensive Cyber Training and Expertise

Information is a critical business asset, which depends on protection by competent system administrators and IT professionals experienced in real-world environments and threats. With cyber threats increasing, we need a meaningful way to train, and certify the level of cyber competency. A cyber-defense curriculum and live-fire trainers that quantify a student's performance are essential to the survival of our "Information Age" critical assets.

Effective cyber-defense training environment must include:

- Real-world, live training on systems that emulate the production environment
- Interactive, dynamic environment that challenges the individual
- Initial training conducted using a structured, on-site methodology; a "train the trainer" model can provide continuity for routine exercising thereafter
- Continual training capability for routine training and timely exposure to new threat scenarios as they are released
- Follow-on remote training as an option to continue the training experience
- Up-to-date scenarios to keep current with the changing threat
- Sharpening of individual cyber skills, while fostering a teamwork approach to problem solving
- A training curriculum that addresses all of the basic day-to-day practices required to administer network and system security
- Real-time, comprehensive performance feedback to reinforce successful behavior.

CyberNEXS meets all of these training requirements. It provides various options for delivering training, certifications and competitions, all in a cost-effective manner.

On-site CyberNEXS training is provided by a two-person team at the customer's desired location and provides training three-to-five days during the normal 5 day work-week.

CyberNEXS Training Course Outline

- Day 1
 - Classroom instruction
 - Introduction
 - General Security Fundamentals
 - Windows Security –tools/tips
 - Unix Security –tools/tips
 - Firewall Configuration Fundamentals
 - IDS Configuration Fundamentals
- Day 2
 - Classroom instruction

- Basics of Incident Handling and Forensics
- Exploit overview
- Live demo of an exploit taking over a system/stealing data
- Beginning CyberNEXS toolset overview
- Exercise overview –rules
- Network discovery and lockdown
- Start of exercise
- CyberNEXS Exercise play
- Day 3
 - CyberNEXS Exercise play
 - Out-brief
 - Exercise Recap
 - Scoring Results

CyberNEXS has been validated to the Committee on National Security Systems (CNSS) National Training Standard for System Administrators, CNSSI 4013 Advanced Level, as part of Leidos’s System Administrator Security Training (SAST) curriculum.

Sales Options

On-Site Training. Leidos’s Three (3) and Five (5) day Cyber training and exercise curriculum, baselines security knowledge and trains students to recognize/defend cyberattacks. Training is delivered with two (2) instructors at your Facility and culminates with the patent-pending CyberNEXS live, real-world exercise.

- CyberNEXS requirements for an organization to hold Remote (at their site) training.
 - Bandwidth – minimum of 256 Kbps up and down link per student with <200 msec ping time to cybernexs-vpn.leidos.com
 - Computers - each student needs a computer equipped with minimum of 2 Gbyte RAM; 1 GHz Processor, 1024x768 (or higher) display, Ethernet networking, 20 GB of disk space, with keyboard and mouse.
 - Networking Equipment – as many Eight (8) port gigabit switches, as required to break out for the room layout; One (1) Linksys SRW 2048 as the interface between internal Ethernet connections and the internet pipe
 - Gigabit Ethernet cabling – single connections between each set of tables and the main switch
 - Tables – N/2 6x3 foot tables. Two (2) students per table
 - Power – 110v /15Amp per every Ten (10) computers.
 - Room – Large enough to contain all students and Two (2) instructors
 - Projector/Screen – A screen visible to all students in the room for instruction.
- Delivery Timeframe - CyberNEXS Training is available by scheduling a few weeks in advance of you need, please contact CyberNEXS@leidos.com for more information.

Remote Exercising and Competitions

Virtual access provides live, realistic, training, exercising and competition with real-time feedback. Remote training saves travel expenses and provides greater flexibility for routine training.

Competition

Rapidly configurable competition environments are tailored to individual complexity and scale. CyberNEXS competitions can support hundreds of remote contestants; offensive and capture the flag tournaments upon request.

Practice and Qualification Rounds

Leidos will provide Practice and Qualification competition services via the Internet during a six (6) hour period for either one or two target options; more can be arranged under separate pricing.

Remote Virtual Machine (VM) Hardening Competition

Typically used for competition rounds with a large number of people/teams competing simultaneously, this option provides contestants with one or more vulnerable targets (i.e. Windows and/or UNIX operating systems as VMware images) which are downloaded to the contestant's personal computer. At the beginning of the exercise, they are provided with the password that will unlock the Target contents. Once unlocked, the contestant's Target will register via a web interface with the CyberNEXS central server. The CyberNEXS server will confirm their successful registration and provide each team with their individual score card (ScoreBox). They will then begin to remove all vulnerabilities (harden) prior to end of the exercise. During that time, as their score improves, their ScoreBox will be automatically updated. The goal is to fix the most vulnerability the fastest. The winner will be based on the highest score at the end of the exercise. If there are more than two identical scores, the earlier score is the winner.

Requirements for an organization to compete in a CyberNEXS Competition

- For Competitions, a team needs to have at least one participant (preferably more) with a computer and screen connected to the internet. The performance of the network link and computer directly relates to the performance of the experience for the user. We recommend:
 - Bandwidth – minimum of 256 Kbps up and down link per student with <200 msec ping time to cybernexs-vpn.saic.com
 - Computers - each team needs at least One (1) computer equipped with minimum of 2 Gbyte RAM; 1 GHz Processor, 1024x768 (or higher) display, Ethernet networking, 20 GB of disk space, with keyboard and mouse.
- **Delivery Timeframe** - CyberNEXS is available by scheduling a few weeks in advance of your need, please contact CyberNEXS@leidos.com for more information.
- **Licensing**
Licensing is available; please contact CyberNEXS@leidos.com for more information.

*Note: Actual travel expenses (Lodging, Air, Per Diem, etc.) are additional and will be billed at cost for the Training Courses.

Note: Collegiate Competition is a more advanced (Difficult) form of the HS Comp., it contains additional and more complex IT security problems to solve

Note: Competitions, have four (4) game variants, including: Cyber Defense; Penetration Testing; Capture-the-Flag; and Forensics

- **Contact Us Today**

For more information about Leidos's business solutions and capabilities, please contact CyberNEXS@leidos.com for more information.

SIN	MANUFACTURER	PART NUMBER	PRODUCT DESCRIPTION	GSA PRICE
132-50	Leidos	TR-3-O	CyberNEXS 3 Day Training Exercise	\$21,158.00
132-50	Leidos	TR-5-O	CyberNEXS 5 Day Training Exercise	\$27,203.00
132-50	Leidos	COMP-1-D	CyberNEXS Qualification Round 1-6	\$2,645.00
132-50	Leidos	COMP-2-D	CyberNEXS Qualification Round 2-6	\$3,967.00
132-50	Leidos	COMP-4-CC	CyberNEXS Collegiate Competition 4-8-8	\$4,836.00
132-50	Leidos	COMP-6-CC	CyberNEXS Collegiate Competition 6-8-8	\$6,297.00
132-50	Leidos	COMP-8-CC	CyberNEXS Collegiate Competition 8-8-8	\$7,657.00
132-50	Leidos	HS-4-HC	CyberNEXS High School Competition 4-8-8	\$3,967.00
132-50	Leidos	HS-8-HC	CyberNEXS High School Competition 8-8-8	\$5,642.00

NOTE: Qual Rd 1-6 indicates One (1) Target with Six (6) Hours of Qualification time. Competition 4-8-8 indicates Four (4) Teams; Eight (8) Targets; Eight (8) Hours of Competition