



GENERAL SERVICES ADMINISTRATION
Federal Supply Service
Authorized Federal Supply Schedule Price List

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>.

Schedule Title: Multiple Award Schedule (MAS)

FSC Group

A	RESEARCH AND DEVELOPMENT
B	SPECIAL STUDIES AND ANALYSIS
D	AUTOMATIC DATA PROCESSING AND TELECOMMUNICATIONS
R	PROFESSIONAL, ADMINISTRATIVE, AND MANAGEMENT SUPPORT
U	EDUCATION AND TRAINING

FSC Classes / Product Codes

7010	ADP SYSTEM CONFIGURATION
7030	ADP SOFTWARE
7035	ADP SUPPORT EQUIPMENT
7A21	IT AND TELECOM – BUSINESS APPLICATION SOFTWARE (Perpetual License Software)
AD25	(R&D- DEFENSE OTHER: SERVICES (OPERATIONAL SYSTEMS DEVELOPMENT)
B519	SPECIAL STUDIES/ANALYSIS - GEOTECHNICAL
D301	IT AND TELECOM - FACILITY OPERATION AND MAINTENANCE
D307	IT AND TELECOM - IT STRATEGY AND ARCHITECTURE
D319	IT AND TELECOM - ANNUAL SOFTWARE MAINTENANCE SERVICE PLANS
D399	IT AND TELECOM - OTHER IT AND TELECOMMUNICATIONS
DA01	IT AND TELECOM – BUSINESS APPLICATION/APPLICATION DEVELOPMENT SUPPORT SERVICES (Labor)
DC10	IT AND TELECOM – DATA CENTER AS A SERVICE
R425	SUPPORT – PROFESSIONAL: ENGINEERING/TECHNICAL
R430	SUPPORT – PROFESSIONAL: PHYSICAL SECURITY AND BADGING
R499	SUPPORT – PROFESSIONAL: OTHER
R603	SUPPORT ADMINISTRATIVE
R699	SUPPORT ADMINISTRATIVE: OTHER

Contract Number: 47QTCA18D006F

For more information on ordering from Federal Supply Schedules go to the GSA Schedules page at
GSA.gov

CONTRACT PERIOD: February 1, 2018 through January 31, 2028





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Business Size: Other Than Small





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1.0. Customer Information

1.1. Table of awarded special item numbers with appropriate cross-reference to item descriptions and awarded prices.

Table of awarded special item number(s)	
Special Item No. 511210	Software Licenses
Special item No. 518210C	Cloud and Cloud Related IT Professionals Services
Special Item No. 541370GEO	Earth Observation Solutions
Special Item No. 54151S	Information Technology Professionals Services
Special Item No. 541990L	Professional Law Enforcement Services
Special Item No. 561611	Background Investigation Services
Special Item No. 611420	Information Technology Training
Special Item No. 611430ST	Security Training
Special Item No. Ancillary	Ancillary Supplies and Services
Special Item No. OLM	Order-Level Materials

1.2. Lowest priced model number and lowest unit price for that model for each SIN awarded in the contract. **Please refer to the corresponding Pricelist/Table per SIN**

1.3. Description of all corresponding commercial job titles, experience, functional responsibility, and education for those types of employees. ** Please refer to the corresponding Labor Descriptions per SIN**

1.4. Maximum Order

Special Item No. 511210	Software Licenses	\$500,000.00
Special item No. 518210C	Cloud and Cloud Related IT Professionals Services	\$500,000.00
Special Item No. 541370GEO	Earth Observation Solutions	\$1,000,000.00
Special Item No. 54151S	Information Technology Professionals Services	\$500,000.00
Special Item No. 541990L	Professional Law Enforcement Services	\$250,000.00
Special Item No. 561611	Background Investigation Services	\$500,000.00
Special Item No. 611420	Information Technology Training	\$250,000.00
Special Item No. 611430ST	Security Training	\$1,000,000.00
Special Item No. Ancillary	Ancillary Supplies and Services	\$250,000.00
Special Item No. OLM	Order-Level Materials	\$250,000.00

1.5. Minimum Order: The minimum dollar value of orders to be issued is \$100.

1.6. Geographic coverage (delivery area)

The geographic scope of this contract is worldwide. Quiet Professionals' rates are for CONUS efforts only. For OCONUS efforts, QP will increase the labor rates by the applicable U.S. State Department published differentials. Other related international expenses required to support employees outside of the continental United States may be charged as ODCs (including but not limited to special space costs, taxes, Defense Base Act (DBA), Worker's Compensation insurance, travel accident insurance, and possible telecommunications costs) in our task order proposals.

1.7. Point of Production: Same as Contractor's Address.

1.8. Discount from List Prices or Statement of Net Price: Prices shown are NET Prices; basic discounts have been deducted.



1.9. Quantity Discount: Please refer to each Vendor's product & service offering.

1.10. Prompt Payment Terms Prompt Payment: Not Offered.

1.11. Foreign Items: None

1.12. Time of Delivery

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

Special Item No. 511210	5 Days
Special item No. 518210C	As Negotiated
Special Item No. 541370GEO	As Negotiated
Special Item No. 54151S	As Negotiated
Special Item No. 541990L	As Negotiated
Special Item No. 561611	As Negotiated
Special Item No. 611420	As Negotiated
Special Item No. 611430ST	As Negotiated
Special Item No. Ancillary	As Negotiated
Special Item No. OLM	As Negotiated

1.13. Expedited Delivery: N/A

1.14. Overnight and 2-Day Delivery Times: N/A

1.15. 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.

1.16. F.O.B. Point(s): Destination

1.17. Ordering Address

1.17.1. Quiet Professionals, LLC Attention: Contracts 2701 North Rocky Point Drive Suite 500
Tampa, Florida 33607 / 813-902-3557 x117– Contracts Office

1.18. Ordering Procedures

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.

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



1.18.2. FAR 8.405-2 Ordering procedures for services requiring a statement of work.

1.18.3. FAR 8.405-3 Ordering procedures for supplies and services on Blanket Purchase Agreements (BPA's)

1.19. Contractor's Payment Address: Quiet Professionals, LLC Attention: Accounts Receivable 2701 North Rocky Point Drive Suite 500 Tampa, Florida 33607 813-902-3557 x114--Finance Office

1.20. Warranty Provision

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. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

1.21. 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. 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.

1.22. Export Packing Charges, If Applicable: Not Applicable

1.23. Terms and conditions of rental, maintenance, and repair: The corresponding terms and conditions for rental, maintenance, and repair are provided in the applicable SIN section of the pricelist. 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.

1.24. Terms and conditions of installation if applicable are provided in each of the applicable SIN section of the pricelist. 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.

1.25. Terms and conditions of repair parts: N/A

1.26. Terms and Conditions of repair parts: N/A

1.27. Terms and conditions for any other services: N/A

1.28. List of service and distribution points: N/A

1.29. List of participating dealers: N/A

1.30. Preventive Maintenance: N/A

1.31. Special Attributes:

1.31.1. Section 508 Compliance

Quiet Professionals, LLC has the capability to comply with Section 508 requirements throughout its performance of this contract. Quiet Professionals 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/.



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

For any Quiet Professionals manufactured products, the Section 508 product information is available at the following website: <https://www.buyaccessible.gov>. The EIT standard can be found at: www.Section508.gov/.

1.32. Data Universal Number System (DUNS) number: 828725163 / Unique Entity Identification (UEI):
NE4LCFKM1T44

1.33. Notification regarding registration in System for Award Management (SAM) database: Quiet Professionals is registered with the System for Award Management at <http://www.sam.gov>. The information provided in SAM is current, accurate, and complete. CAGE Code: **58LL9**

1.34. Order-Level Materials SIN OLM
Order-Level Materials (OLMs) are supplies and/or services acquired in direct support of an individual task or delivery order placed against a Federal Supply Schedule (FSS) contract or FSS blanket purchase agreement (BPA). OLMs are not defined, priced, or awarded at the FSS contract level. They are unknown before a task or delivery order is placed against the FSS contract or FSS BPA. OLMs are only authorized for inclusion at the order level under a Time and Materials (T&M) or Labor-Hour (LH) Contract Line-Item Number (CLIN) and are subject to a Not to Exceed (NTE) ceiling price. OLMs include direct materials, subcontracts for supplies and incidental services for which there is not a labor category specified in the FSS contract, other direct costs (separate from those under ODC SINs), and indirect costs. OLMs are purchased under the authority of the FSS Program and are not "open market items."

Items awarded under ancillary supplies/services or other direct cost (ODC) SINs are not OLMs. These items are defined, priced, and awarded at the FSS contract level, whereas OLMs are unknown before an order is placed. Ancillary supplies/services and ODC SINs are for use under all order type CLINs (Fixed-Price (FP), T&M, and LH), whereas the Order-Level Materials SIN is only authorized for use under T&M and LH order CLINs.

The Order-Level Materials SIN is only authorized for use in direct support of another awarded SIN. Price analysis for OLMs is not conducted when awarding the FSS contract or FSS BPA; therefore, GSAR 538.270 and 538.271 do not apply to OLMs. OLMs are defined and priced at the ordering activity level in accordance with GSAR clause 552.238-82 Special Ordering Procedures for the Acquisition of Order-Level Materials. Prices for items provided under the Order-Level Materials SIN must be inclusive of the Industrial Funding Fee (IFF). The cumulative value of OLMs in an individual task or delivery order cannot exceed 33.33% of the total value of the order.

1.35. Service Contract Act
The Service Contract Labor Standards (SCLS), also referred to as the Service Contract Act (SCA) is applicable to this contract as it applies to the entire Multiple Award Schedule and all services provided. While no specific labor categories/services have been identified as being subject to SCLS/SCA due to exemptions for professional employees (FAR 22.1101, 22.1102 and 29 CFR 541.300), this contract still maintains the provisions and protections for SCA eligible labor categories. If and / or when the contractor adds SCA labor categories / employees to the contract through the modification process, the contractor must inform the Contracting Officer and establish a SCA matrix identifying the GSA labor category titles, the occupational code, SCA labor category titles and the applicable WD number. Failure to do so may result in cancellation of the contract.



2.0. 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 FAS 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.

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 Schedule / 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.



3.0. Basic Guidelines for Using “Contractor Team Arrangements”

Federal Supply Schedule Contractors may use “GSA Schedule Contractor Team Arrangements” (not to be confused with FAR 9.6 “Contractor Team Arrangements”) to provide solutions when responding to an ordering activity requirement.

These GSA Contractor Team Arrangements can be included under a Blanket Purchase Agreement (BPA). BPAs are permitted under all Federal Supply Schedule contracts. Orders under a GSA Contractor Team Arrangement are subject to terms and conditions of the Federal Supply Schedule Contract.

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

Customers should refer to the GSA Schedules Contractor Team Arrangement (CTA) website [<https://www.gsa.gov/acquisition/purchasing-programs/gsa-schedules/schedules-flexibilities/contractor-team-arrangements>] for specific details on GSA Contractor 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.



4.0. Terms And Conditions Applicable to Term Software Licenses (SIN 511210)

4.1.1. 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.

4.1.2. Enterprise User License Agreements Requirements (EULA)

The Contractor shall provide all Enterprise User License Agreements in an editable Microsoft Office (Word) format.

4.1.3. Guarantee/Warranty

4.1.3.1. Unless specified otherwise in this contract, the Contractor's standard commercial guarantee/warranty as stated in the contract's commercial pricelist will apply to this contract. Quiet Professionals makes no representations or warranties, either express or implied, of any kind with respect to the program. The program is provided "as is" with no warranty. You agree that your use of the program is at your sole risk. to the fullest extent permissible under applicable law, Quiet Professionals expressly disclaims all warranties of any kind, express or implied, with respect to the program, including warranties of merchantability, fitness for a particular purpose, satisfactory quality, and any warranties that may arise out of course of performance, course of dealing or usage of trade. Some states or jurisdictions do not allow the exclusion of implied warranties, so the above exclusions may not apply to you. In that event, any implied warranties are limited in duration to ninety (90) days from the date of access to the program. Quiet Professionals does not warrant that the program will operate in combination with hardware, software, systems, or data not provided by Quiet Professionals, except as expressly specified in the documentation, or that the operation of the program will be uninterrupted or error-free.

4.1.3.2. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract. If no implied warranties are given, an express warranty of at least 60 days must be given in accordance with FAR 12.404(b)(2).

4.1.3.3. 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.

4.1.4. Technical Services: The Contractor, without additional charge to the ordering activity, shall provide a hot line technical support number (1-813-902-3557) for the purpose of providing user assistance and guidance in the implementation of the software. The technical support number is available from 7:00AM to 6:00PM Eastern Standard Time (EST).

4.1.5. Software Maintenance - Software maintenance as it is defined: (select software maintenance type):

4.1.5.1. Software Maintenance as a Product (SIN 511210): 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. Software Maintenance as a product is billed at the time of purchase. Software maintenance as a service is billed in arrears in accordance with 31 U.S.C. 3324.

4.1.5.2. 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.

4.1.6. Periods Of Term Licenses (SIN 511210)

4.1.6.1. The Contractor shall honor orders for periods for the duration of the contract period or a lesser period of time.

4.1.6.2. Term licenses and/or maintenance may be discontinued by the ordering activity on thirty (30) calendar days written notice to the Contractor.

4.1.7. 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 the 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 is to be continued during any remainder of the contract period.

4.1.8. 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.

4.1.9. 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 the continuation of term licenses and/or maintenance will be required if the term licenses and/or maintenance is to be continued during the subsequent period.

4.1.10. Conversion From Term License to Perpetual License: Quiet Professionals does not offer or permit conversion of Term Licenses to Perpetual Licenses.

4.1.11. TERM LICENSE CESSATION: Not offered by Quiet Professionals.

4.1.12. Utilization Limitations - (SIN 511210): Software acquisition is limited to commercial computer software defined in FAR Part 2.101.

4.1.13. When acquired by the ordering activity, commercial computer software and related documentation so legend shall be subject to the following:

4.1.13.1. Title to and ownership of the software and documentation shall remain with the Contractor, unless otherwise specified.

4.1.13.2. 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 agencies have joint projects that can be satisfied by the use of the software placed at one ordering activity's site. This would allow other agencies 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.



4.1.13.3. 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.

4.1.13.4. 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 maybe 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.

4.1.13.5. 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.

4.1.14. Software Conversions - (SIN 511210): Quiet Professionals does not offer or permit conversion of Term Licenses to Perpetual Licenses.

4.1.15. Descriptions 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 which are offered.

4.1.16. Right-To-Copy Pricing: Quiet Professionals does not offer this option.



4.1.17.

4.1. Software Licenses List (SIN 511210)

Part #	MFG	Description	Foot Notes
GIS0202*	Esri	Term Software - ArcGIS Enterprise Creator Annual Subscription	
WEB0306*	Esri	Term Software - ArcGIS Online Viewer Annual Subscription	
WEB0307*	Esri	Term Software - ArcGIS Online Creator Annual Subscription	
WEB0303*	Esri	Term Software - ArcGIS Online GIS Professional Advanced Annual Subscription	
WEB0302*	Esri	Term Software - ArcGIS Online GIS Professional Standard Annual Subscription	
WEB0301*	Esri	Term Software - ArcGIS Online GIS Professional Basic Annual Subscription	
WEB0332	Esri	Term Software - ArcGIS Pro Advanced Online Annual Subscription	
WEB0331	Esri	Term Software - ArcGIS Pro Standard Online Annual Subscription	
WEB0330	Esri	Term Software - ArcGIS Pro Basic Online Annual Subscription	
WEB0400	Esri	Term Software - ArcGIS 3D Analyst for ArcGIS Pro Online Annual Subscription	
WEB0401	Esri	Term Software - ArcGIS Data Interoperability for ArcGIS Pro Online Annual Subscription	
WEB0402	Esri	Term Software - ArcGIS Data Reviewer for ArcGIS Pro Online Annual Subscription	
WEB0403	Esri	Term Software - ArcGIS Geostatistical Analyst for ArcGIS Pro Online Annual Subscription	
WEB0404	Esri	Term Software - ArcGIS Network Analyst for ArcGIS Pro Online Annual Subscription	
WEB0405	Esri	Term Software - ArcGIS Publisher for ArcGIS Pro Online Annual Subscription	
WEB0406	Esri	Term Software - ArcGIS Spatial Analyst for ArcGIS Pro Online Annual Subscription	
WEB0407	Esri	Term Software - ArcGIS Workflow Manager for ArcGIS Pro Standard or Advanced Online Annual Subscription	
WEB0408	Esri	Term Software - ArcGIS Image Analyst for ArcGIS Pro Online Annual Subscription	
WEB0409	Esri	Term Software - ArcGIS LocateXT for ArcGIS Pro Online Annual Subscription	
WEB0410	Esri	Term Software - ArcGIS Pro Online Extensions Annual Subscription	5
WEB0411	Esri	Term Software - ArcGIS Production Mapping for ArcGIS Pro Online Annual Subscription	
WEB0412	Esri	Term Software - ArcGIS Defense Mapping for ArcGIS Pro Online Annual Subscription	
WEB0413	Esri	Term Software - ArcGIS Aviation Airports for ArcGIS Pro Online Annual Subscription	
WEB0414	Esri	Term Software - ArcGIS Maritime for ArcGIS Pro Online Annual Subscription	
WEB0417	Esri	Term Software - ArcGIS Indoors for ArcGIS Pro Online Annual Subscription	3
WEB0650*	Esri	Term Software - ArcGIS Runtime Analysis Extension for ArcGIS Online Annual Subscription	
GIS6200T	Esri	Term Software - ArcGIS Enterprise Advanced (up to 4 Cores) Annual Subscription	
GIS6204T	Esri	Term Software - ArcGIS Enterprise Standard (up to 4 Cores) Annual Subscription	
GIS4201	Esri	Term Software - ArcGIS GIS Server Advanced (up to 4 Cores) Annual Subscription	
GIS2201T	Esri	Term Software - ArcGIS GIS Server Advanced Additional Core Annual Subscription	
GIS4204	Esri	Term Software - ArcGIS GIS Server Standard (up to 4 Cores) Annual Subscription	
GIS2205T	Esri	Term Software - ArcGIS GIS Server Standard Additional Core Annual Subscription	
GIS4207	Esri	Term Software - ArcGIS GIS Server Basic (up to 4 Cores) Annual Subscription	
GIS2209T	Esri	Term Software - ArcGIS GIS Server Basic Additional Core Annual Subscription	
GIS7311T	Esri	Term Software - ArcGIS GeoEvent Server (up to 4 Cores) Annual Subscription	
GIS7312T	Esri	Term Software - ArcGIS GeoEvent Server Additional Core (up to 32 Cores) Annual Subscription	
GIS7315T	Esri	Term Software - ArcGIS GeoEvent Server Additional Core (more than 32 Cores) Annual Subscription	
GIS7326T	Esri	Term Software - ArcGIS Image Server (up to 4 Cores) Annual Subscription	
GIS7327T	Esri	Term Software - ArcGIS Image Server Additional Core (up to 32 Cores) Annual Subscription	
GIS7323T	Esri	Term Software - ArcGIS Image Server Additional Core (more than 32 Cores) Annual	



Part #	MFG	Description	Foot Notes
		Subscription	
APL111T	Esri	Term Software - ArcGIS Monitor for ArcGIS Server (up to 4 Cores) Annual Subscription	
APL112T	Esri	Term Software - ArcGIS Monitor for ArcGIS Server Additional Core Annual Subscription	
GIS4227S	Esri	Term Software - ArcGIS Network Analyst for ArcGIS GIS Server Standard (up to 4 Cores) Annual Subscription	
GIS2255T	Esri	Term Software - ArcGIS Network Analyst for ArcGIS GIS Server Standard Additional Core Annual Subscription	
GIS4224	Esri	Term Software - ArcGIS Workflow Manager (Classic) for ArcGIS GIS Server Standard or Advanced (Windows Only) (up to 4 Cores) Annual Subscription	
GIS2301T	Esri	Term Software - ArcGIS Workflow Manager (Classic) for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Annual Subscription	
GIS4230	Esri	Term Software - ArcGIS Data Reviewer for ArcGIS GIS Server Standard or Advanced (Windows Only) (up to 4 Cores) Annual Subscription	
GIS2315T	Esri	Term Software - ArcGIS Data Reviewer for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Annual Subscription	
GIS4236	Esri	Term Software - ArcGIS Data Interoperability for ArcGIS GIS Server Standard or Advanced (Windows Only) (up to 4 Cores) Annual Subscription	
GIS2268T	Esri	Term Software - ArcGIS Data Interoperability for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Annual Subscription	
GIS4271	Esri	Term Software - ArcGIS Utility Network Management for ArcGIS GIS Server Standard or Advanced (Windows Only) (up to 4 Cores) Annual Subscription	
GIS2351T	Esri	Term Software - ArcGIS Utility Network Management for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Annual Subscription	
GIS4286	Esri	Term Software - ArcGIS LocateXT for ArcGIS GIS Server Standard or Advanced (Windows Only) (up to 4 Cores) Annual Subscription	
GIS4281T	Esri	Term Software - ArcGIS LocateXT for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Annual Subscription	
APL400	Esri	Term Software - ArcGIS Production Mapping for ArcGIS GIS Server Standard or Advanced (Windows Only) (up to 4 Cores) Annual Subscription	
APL054T	Esri	Term Software - ArcGIS Production Mapping for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Annual Subscription	
APL450	Esri	Term Software - ArcGIS Maritime for ArcGIS GIS Server Standard or Advanced (Windows Only) (up to 4 Cores) Annual Subscription	
APL074T	Esri	Term Software - ArcGIS Maritime for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Annual Subscription	
GIS4239	Esri	Term Software - ArcGIS Roads and Highways (Location Referencing) for ArcGIS GIS Server Standard or Advanced (Windows Only) (up to 4 Cores) Annual Subscription	
APL221T	Esri	Term Software - ArcGIS Roads and Highways (Location Referencing) for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Annual Subscription	
GIS0001*	Esri	Perpetual Software - ArcGIS Desktop Advanced Concurrent Use Perpetual License	26
GIS0100*	Esri	Perpetual Software - ArcGIS Desktop Standard Concurrent Use Perpetual License	26
GIS0200*	Esri	Perpetual Software - ArcGIS Desktop Basic Concurrent Use Perpetual License	26
GIS0005*	Esri	Perpetual Software - ArcGIS Desktop Advanced Single Use Perpetual License	26
GIS0105*	Esri	Perpetual Software - ArcGIS Desktop Standard Single Use Perpetual License	26
GIS0205*	Esri	Perpetual Software - ArcGIS Desktop Basic Single Use Perpetual License	26
GIS0300*	Esri	Perpetual Software - ArcGIS 3D Analyst for Desktop Concurrent Use Perpetual License	26 / 29
GIS0400*	Esri	Perpetual Software - ArcGIS Spatial Analyst for Desktop Concurrent Use Perpetual License	26 / 29
GIS0500*	Esri	Perpetual Software - ArcGIS Geostatistical Analyst for Desktop Concurrent Use Perpetual Licenses	26 / 29
GIS0550	Esri	Perpetual Software - ArcGIS Image Analyst for ArcGIS Pro Concurrent Use Perpetual License	26 / 29 / 39



Part #	MFG	Description	Foot Notes
GIS0800*	Esri	Perpetual Software - ArcGIS Publisher for Desktop Concurrent Use Perpetual License	26 /29
GIS1000*	Esri	Perpetual Software - ArcGIS Tracking Analyst for Desktop Concurrent Use Perpetual License	26 /29
GIS1200*	Esri	Perpetual Software - ArcGIS Schematics for Desktop Concurrent Use Perpetual License	26 /29
GIS1400*	Esri	Perpetual Software - ArcGIS Data Reviewer for Desktop Concurrent Use Perpetual License	26 /29
GIS1450*	Esri	Perpetual Software - ArcGIS Workflow Manager (Classic) for Desktop Concurrent Use Perpetual License	26 /29
GIS1800*	Esri	Perpetual Software - ArcGIS Network Analyst for Desktop Concurrent Use Perpetual License	26 /29
GIS2000*	Esri	Perpetual Software - ArcGIS Data Interoperability for Desktop Concurrent Use Perpetual License	26 /29
GIS0910*	Esri	Perpetual Software - ArcGIS LocateXT for Desktop Concurrent Use Perpetual License	26 /29
APL002*	Esri	Perpetual Software - ArcGIS Defense Mapping for ArcGIS Desktop Concurrent Use Perpetual License	26
APL022*	Esri	Perpetual Software - ArcGIS Production Mapping for ArcGIS Desktop Concurrent Use Perpetual License	26
APL031*	Esri	Perpetual Software - ArcGIS Aviation Airports for ArcGIS Desktop Concurrent Use Perpetual License	26
APL035*	Esri	Perpetual Software - ArcGIS Aviation Charting for ArcGIS Desktop Concurrent Use Perpetual License	26
APL040*	Esri	Perpetual Software - ArcGIS Maritime for ArcGIS Desktop Concurrent Use Perpetual License	26
APL044*	Esri	Perpetual Software - ArcGIS Bathymetry for ArcGIS Desktop Concurrent Use Perpetual License	26
APL200*	Esri	Perpetual Software - ArcGIS Roads and Highways (Location Referencing) for Desktop Concurrent Use Perpetual License	26
GIS0305*	Esri	Perpetual Software - ArcGIS 3D Analyst for Desktop Single Use Perpetual License	26 /29
GIS0405*	Esri	Perpetual Software - ArcGIS Spatial Analyst for Desktop Single Use Perpetual License	26 /29
GIS0505*	Esri	Perpetual Software - ArcGIS Geostatistical Analyst for Desktop Single Use Perpetual License	26 /29
GIS0555	Esri	Perpetual Software - ArcGIS Image Analyst for ArcGIS Pro Single Use Perpetual License	26 / 29 / 39
GIS0805*	Esri	Perpetual Software - ArcGIS Publisher for Desktop Single Use Perpetual License	26 /29
GIS1005*	Esri	Perpetual Software - ArcGIS Tracking Analyst for Desktop Single Use Perpetual License	26 /29
GIS1205*	Esri	Perpetual Software - ArcGIS Schematics for Desktop Single Use Perpetual License	26 /29
GIS1405*	Esri	Perpetual Software - ArcGIS Data Reviewer for Desktop Single Use Perpetual License	26 /29
GIS1455*	Esri	Perpetual Software - ArcGIS Workflow Manager for Desktop Single Use Perpetual License	26 /29
GIS1805*	Esri	Perpetual Software - ArcGIS Network Analyst for Desktop Single Use Perpetual License	26 /29
GIS2005*	Esri	Perpetual Software - ArcGIS Data Interoperability for Desktop Single Use Perpetual License	26 /29
GIS0915*	Esri	Perpetual Software - ArcGIS LocateXT for Desktop Single Use Perpetual License	26 /29
GIS0307	Esri	Perpetual Software - ArcGIS Desktop Extensions Bundle Single Use Perpetual License	26 /29 /40
APL003*	Esri	Perpetual Software - ArcGIS Defense Mapping for Desktop Single Use Perpetual License	26 /29
APL023*	Esri	Perpetual Software - ArcGIS Production Mapping for Desktop Single Use Perpetual License	26 /29



Part #	MFG	Description	Foot Notes
		License	
APL032*	Esri	Perpetual Software - ArcGIS Aviation Airports for ArcGIS Desktop Single Use Perpetual License	26 /29
APL036*	Esri	Perpetual Software - ArcGIS Aviation Charting for ArcGIS Desktop Single Use Perpetual License	26 /29
APL041*	Esri	Perpetual Software - ArcGIS Maritime Charting for ArcGIS Desktop Single Use Perpetual License	26 /29
APL045*	Esri	Perpetual Software - ArcGIS Bathymetry for ArcGIS Desktop Single Use Perpetual License	26 /29
APL205*	Esri	Perpetual Software - ArcGIS Roads and Highways (Location Referencing) for Desktop Single Use Perpetual License	26 /29
GIS0209*	Esri	Perpetual Software - ArcGIS Enterprise Creator Perpetual License	
GIS6200	Esri	Perpetual Software - ArcGIS Enterprise Advanced Perpetual License (up to 4 Cores)	36
GIS6204	Esri	Perpetual Software - ArcGIS Enterprise Standard Perpetual License (up to 4 Cores)	
GIS2200	Esri	Perpetual Software - ArcGIS GIS Server Advanced Perpetual License (up to 4 Cores)	35 / 36
GIS2201	Esri	Perpetual Software - ArcGIS GIS Server Advanced Additional Core Perpetual License	35
GIS2204	Esri	Perpetual Software - ArcGIS GIS Server Standard Perpetual License (up to 4 Cores)	35
GIS2205	Esri	Perpetual Software - ArcGIS GIS Server Standard Additional Core Perpetual License	35
GIS2208	Esri	Perpetual Software - ArcGIS GIS Server Basic Perpetual License (up to 4 Cores)	35
GIS2209	Esri	Perpetual Software - ArcGIS GIS Server Basic Additional Core Perpetual License	35
GIS2254	Esri	Perpetual Software -ArcGIS Network Analyst for ArcGIS GIS Server Standard Perpetual License (up to 4 Cores)	
GIS2255	Esri	Perpetual Software -ArcGIS Network Analyst for ArcGIS GIS Server Standard Additional Core Perpetual License	
GIS2300	Esri	Perpetual Software - ArcGIS Workflow Manager (Classic) for ArcGIS GIS Server Standard or Advanced (Windows Only) Perpetual License (up to 4 Cores)	
GIS2301	Esri	Perpetual Software - ArcGIS Workflow Manager (Classic) for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Perpetual License	
GIS2314	Esri	Perpetual Software -ArcGIS Data Reviewer for ArcGIS GIS Server Standard or Advanced (Windows Only) Perpetual License (up to 4 Cores)	
GIS2315	Esri	Perpetual Software -ArcGIS Data Reviewer for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Perpetual License	
GIS2267	Esri	Perpetual Software - ArcGIS Data Interoperability for ArcGIS GIS Server Standard or Advanced (Windows Only) Perpetual License (up to 4 Cores)	
GIS2268	Esri	Perpetual Software - ArcGIS Data Interoperability for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Perpetual License	
GIS2350	Esri	Perpetual Software - ArcGIS Utility Network Management for ArcGIS GIS Server Standard or Advanced (Windows Only) Perpetual License (up to 4 Cores)	
GIS2351	Esri	Perpetual Software - ArcGIS Utility Network Management for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Perpetual License	
GIS4280	Esri	Perpetual Software - ArcGIS LocateXT for ArcGIS GIS Server Standard or Advanced (Windows Only) Perpetual License (up to 4 Cores)	
GIS4281	Esri	Perpetual Software - ArcGIS LocateXT for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Perpetual License	
APL053	Esri	Perpetual Software - ArcGIS Production Mapping for ArcGIS GIS Server Standard or Advanced (Windows Only) Perpetual License (up to 4 Cores)	
APL054	Esri	Perpetual Software - ArcGIS Production Mapping for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Perpetual License	
APL073	Esri	Perpetual Software - ArcGIS Maritime for ArcGIS GIS Server Standard or Advanced (Windows Only) Perpetual License (up to 4 Cores)	
APL074	Esri	Perpetual Software - ArcGIS Maritime for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Perpetual License	
APL220	Esri	Perpetual Software - ArcGIS Roads and Highways (Location Referencing) for ArcGIS GIS Server Standard or Advanced (Windows Only) Perpetual License (up to 4 Cores)	



Part #	MFG	Description	Foot Notes
APL221	Esri	Perpetual Software - ArcGIS Roads and Highways (Location Referencing) for ArcGIS GIS Server Standard or Advanced (Windows Only) Additional Core Perpetual License	
GIS7311	Esri	Perpetual Software - ArcGIS GeoEvent Server Perpetual License (up to 4 Cores)	
GIS7312	Esri	Perpetual Software - ArcGIS GeoEvent Server Additional Core Perpetual License (up to 32 Cores)	
GIS7315	Esri	Perpetual Software - ArcGIS GeoEvent Server Additional Core Perpetual License (more than 32 Cores)	
GIS7326	Esri	Perpetual Software - ArcGIS Image Server Perpetual License (up to 4 Cores)	
GIS7327	Esri	Perpetual Software - ArcGIS Image Server Additional Core Perpetual License (up to 32 Cores)	
GIS7323	Esri	Perpetual Software - ArcGIS Image Server Additional Core Perpetual License (more than 32 Cores)	
APL111	Esri	Perpetual Software - ArcGIS Monitor for ArcGIS Server Perpetual License (up to 4 Cores)	
APL112	Esri	Perpetual Software - ArcGIS Monitor for ArcGIS Server Additional Core Perpetual License	
ENG101*	Esri	Perpetual Software - ArcGIS CityEngine Concurrent Use Perpetual License	
ENG106*	Esri	Perpetual Software - ArcGIS CityEngine Single Use Perpetual License	

- * **Volume discounts are available for this product. Volume discounts apply on a per order basis and are non-cumulative. The discounted price is offered for the entire quantity purchased for a single product.**

511210 - Software Licenses (Term Software) Footnotes:

- 1 N/A
- 2 N/A
- 3 Compatible with ArcGIS Pro only
- 4 N/A
- 5 Includes the following ArcGIS Online Pro Extensions: ArcGIS 3D Analyst, ArcGIS Data Interoperability, ArcGIS Geostatistical Analyst, ArcGIS Image Analyst, ArcGIS LocateXT, ArcGIS Network Analyst, ArcGIS Publisher, ArcGIS Spatial Analyst, ArcGIS Data Reviewer, ArcGIS Workflow Manager
- 6 N/A
- 7 N/A
- 8 N/A
- 9 N/A
- 10 N/A
- 11 N/A
- 12 N/A
- 13 N/A
- 14 N/A
- 15 N/A
- 16 N/A
- 17 N/A

511210 - Software Licenses (Perpetual Software) Footnotes:

- 26 ArcGIS for Desktop system requirements can be found at <https://desktop.arcgis.com/en/system-requirements/latest/arcgis-desktop-system-requirements.htm>
- 27 N/A
- 28 N/A
- 29 ArcGIS for Desktop extensions will follow the licensing of the core software it is being installed with (i.e. Advanced, Standard, or Basic; single or concurrent use)
- 30 N/A



- 31 N/A
- 32 N/A
- 33 N/A
- 34 N/A
- 35 ArcGIS GIS Server can be deployed on a single machine, distributed across multiple servers, or on cloud infrastructure
- 36 Includes ArcGIS Network Analyst, ArcGIS 3D Analyst, ArcGIS Spatial Analyst, ArcGIS Schematics, and ArcGIS Geostatistical Analyst as no-cost extensions
- 37 N/A
- 38 N/A
- 39 Compatible with ArcGIS Pro only
- 40 Includes ArcGIS 3D Analyst; ArcGIS Data Interoperability; ArcGIS Data Reviewer; ArcGIS Geostatistical Analyst; ArcGIS Image Analyst, ArcGIS LocateXT, ArcGIS Network Analyst; ArcGIS Publisher; ArcGIS Schematics; ArcGIS Spatial Analyst; ArcGIS Tracking Analyst; ArcGIS Workflow Manager Desktop Extensions
- 41 N/A
- 42 N/A
- 43 N/A
- 44 N/A



5.0. Terms and Conditions related to Cloud Computing Services (SIN 518210C)

518210C Includes commercially available cloud computing services such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS) and emerging cloud computing services. IT professional services that are focused on providing the types of services that support the Government's adoption of migration to, or governance/management of cloud computing. Specific cloud related IT professional labor categories and/or fixed-price professional services solutions (e.g., migration services) that support activities associated with assessing cloud solutions, refactoring workloads for cloud solutions, migrating legacy or other systems to cloud solutions, providing management/governance of cloud solutions, DevOps, developing cloud native applications, or other cloud-oriented activities are within scope of this SIN. NOTE: Subject to Cooperative Purchasing Cooperative

Additional SIN Description: This SIN provides access to cloud (e.g., IaaS, PaaS, SaaS) computing services across public, community, and hybrid deployment models. Cloud computing services shall comply with National Institute of Standards and Technology (NIST) Definition of Cloud Computing Essential Characteristics (NIST SP 800-145). Cloud computing that does not meet all NIST essential characteristics are outside the scope of this SIN and shall be assigned to other SINs, where applicable.

Cloud related IT professional labor categories are within scope of this SIN. Cloud related IT professional labor categories are not subject to adherence to the NIST definition of cloud computing; therefore, no technical response is required for a labor proposal. Non-professional labor categories subject to Service Contract Labor Standards (SCLS) (e.g., IT help desk support) that are incidental to and used solely to support specific Cloud related IT professional labor categories and/or fixed-price professional services solutions must be offered under a different SIN that specifically covers the proposed services. Ancillary products and services are not within scope of this SIN. Any items that are not within the scope of this SIN must be offered under a SIN that specifically covers the proposed services. The following are out of scope for this SIN: cloud "token," "gift card," "credit," or other similar types of prepaid offerings: Cloud computing services (e.g., IaaS, PaaS, SaaS) are sometimes offered commercially as a cloud "token," "gift card," "credit," or require purchase of a prepaid offering; these are out of scope for this SIN. The pricing model for these items do not accurately represent the stock-keeping units (SKU) that are awarded at the task-order level. Therefore, non-submission of pricing of underlying IaaS, PaaS, SaaS SKUs is not allowed.

Credits for cloud computing services (e.g., IaaS, PaaS, SaaS) that are paid for in advance and spent or used at a later time are commonly termed commercially as a cloud "token," "gift card," or "credit", and are out of scope for SIN 518210C. Cloud computing services (e.g., IaaS, PaaS, SaaS) must be paid for in arrears in accordance with 31 U.S.C. 3324.

Also out of scope is any payment for cloud computing services which carry a risk to the Government of a "use or lose" situation where a government cloud account may forfeit unexpended credits/deposits towards future cloud computing services charges at the end of a vendor-defined period (e.g., 1, 2 or 3 years). Therefore, pre-payment of products or services prior to delivery of SKUs is not allowed. Payment for these SKUs must be in arrears. Physical hardware, non-cloud software per the NIST definition, and other artifacts acquired to support the physical construction of a private or other cloud are not within the scope of this SIN.

5.1. Specific Instructions for SIN 518210C – Cloud Computing and Cloud Related IT Professional Services

5.1.1. All offerings must be billed as follows:

5.1.1.1. Cloud computing services (e.g., IaaS, PaaS, SaaS) must adhere to the "pay as you go" pricing model and must be billed in arrears in accordance with 31 U.S.C. 3324.

5.1.1.2. Cloud related IT professional services, specific cloud labor categories and/or fixed-price



professional services solutions must also be billed in arrears in accordance with 31 U.S.C.3324.

5.1.2. Offerors shall follow instructions and guidance for cloud computing services available at <http://www.gsa.gov/mascategoryrequirements>.

5.1.3. Offerors may propose:

5.1.3.1. Cloud computing services only (e.g., IaaS, PaaS, SaaS);

5.1.3.2. Cloud related IT professional services and/or fixed-price professional services solutions that are not subject to NIST standards only; or

5.1.3.3. Cloud computing services (e.g., IaaS, PaaS, SaaS); (subject to NIST standards) and cloud related IT professional services and/or fixed-price professional services solutions (not subject to NIST standards).

5.1.3.4. The offeror must state which cloud computing service model(s), if any, is/are being proposed (e.g., IaaS, PaaS, SaaS).

5.1.3.5. The offeror must state which cloud computing deployment model(s), if any, is/are being proposed (e.g., public, community, and hybrid).

5.1.4. Pricing increment of offerings:

5.1.4.1. For all offers of IaaS/PaaS/SaaS the appropriate maximum measured increment of pricing shall be no more than one month per user, or some other equivalent discrete measurement that provides the Government with the advantage of frequent (every month or less) “pay as you go” metering cycles.

5.1.4.2. Cloud For all offers of IaaS/PaaS/SaaS a pricing increment that is greater than one month may be offered under SIN 518210C only if an offer with a pricing increment of one month or less is also made for that particular item.

5.1.5. Acceptance Testing: Acceptance testing shall be performed of the systems for ordering activity approval in accordance with the approved test procedures.

5.1.6. Training

5.1.6.1. If training is provided in accordance with standard commercial practices, the offeror shall provide normal commercial installation, operation, maintenance, and engineering interface training on the system.

5.1.6.2. If there are separate training charges, they should be included in the GSA Price List (I-FSS-600 CONTRACT PRICE LISTS (OCT 2016)).

5.1.7. Information Assurance/Security Requirements: Offerors shall meet information assurance/security requirements in accordance with the ordering activity requirements.

5.1.8. Reporting: Offerors shall provide to the ordering activity any general reporting capabilities available to verify performance, cost and availability. In accordance with commercial standard practice, the offeror may furnish the ordering activity with a monthly summary report.

5.1.9. Cloud related IT professional services may be listed on SIN 54151S - Information Technology Professional Services. The cloud related IT professional services on this SIN (518210C) shall be cloud specific titles and descriptions. At a minimum, the word “cloud” shall appear both in the title and the description of each labor category



or fixed-price professional services solutions proposed for this SIN. The relevant past performance projects must demonstrate that the cloud related IT professional services were utilized in the IaaS, PaaS, and/or SaaS environment. NOTE: Identical labor categories cannot be on both SINs 54151S and 518210C. It is recommended that cloud related IT professional services and/or fixed-price professional services solutions that are not subject to NIST standards should be offered under SIN 518210C.

5.1.10. Offerors may optionally select a single service model that best fits a proposed cloud computing offering. Only one service model may be selected per each proposed cloud computing offering. Offerors may elect to submit multiple cloud computing offerings, each with its own single service model.

5.1.11. Deployment model selection within this SIN is optional for any individual cloud computing offering. Offerings may be included without a deployment model selection so long as they comply with all the essential characteristics of cloud computing as outlined by NIST SP 800-145. The three NIST deployment models within the scope of this SIN are: Public, Community, and Hybrid.

5.1.12. All current pricing requirements in provision SCP-FSS-001 apply. At the current time, there is no provision for reducing or eliminating standard price list posting requirements to accommodate rapid cloud price fluctuations.

5.1.13. All pricing models for cloud computing services must have the core capability to meet the NIST Essential Cloud Characteristics, particularly with respect to on-demand self-service, while allowing alternate variations at the task order level at agency discretion, pursuant to the guidance on NIST Essential Characteristics.

5.1.14. Evaluation factors for cloud related IT professional services, specific cloud labor categories and/or fixed-price professional services solutions are found within this same document under Section II Instructions for all IT Offerors under 6) Relevant Project Experience Evaluation.

5.1.14.1. Specific Evaluation Factor for Cloud Computing Services Adherence to the NIST Essential Cloud Characteristics per NIST SP 800-145. Within a two-page limitation for each cloud computing service (e.g., IaaS, PaaS, SaaS) submitted, provide a description of how the cloud computing service meets each of the five essential cloud computing characteristics as defined in National Institute of Standards and Technology (NIST) Special Publication 800-145 and subsequent versions of this publication. This standard specifies the definition of cloud computing for use by Federal agencies. Each cloud computing service must be capable of satisfying each of the five NIST essential characteristics as follows:

- On-demand self-service
- Broad network access
- Resource pooling
- Rapid elasticity
- Measured service cloud (Pay per use, or pay as you go)

Refer to 518210C. Specific Information for Offerors available at <http://www.gsa.gov/mascategoryrequirements> for guidance on meeting the NIST essential characteristics. For the purposes of the cloud computing and cloud related IT professional services SIN, meeting the NIST essential characteristics is concerned primarily with whether the underlying capability of the commercial service is available, and whether or not an ordering activity actually requests or implements the capability.

5.1.15. Cloud Consumption Offerors must identify in their GSA price List (I-FSS-600 CONTRACT PRICE LISTS) all cloud computing services that are available to be ordered on a consumption basis.



5.2. Cloud Computing and Cloud Related IT Professional Services (518210C) Labor Categories

5.2.1. Cloud Computing Specialist I

Experience: 3 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Design new information technology systems employing the Internet and Cloud technologies. Ensure architectural integrity and consistency across the entire solution. Conceive, experiment with, and present architectural approaches for Cloud based information technology and systems, including software, hardware, and processes, in support of business needs.	

5.2.2. Cloud Computing Specialist II

Experience: 5 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Oversee the development of future Cloud based component architectures and migration plans. Conceive, design, prototype, and test new methods, algorithms, and models. Define and enforce appropriate technical standards and procedures. Lead the research and development of new Cloud-based products and applications. Define system, technical and application architectures for major areas of development.	

5.2.3. Cloud Computing Specialist III

Experience: 8 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Certification: CompTIA Cloud+ or Microsoft Certified Azure Solutions Architect	
Description: Cloud based design, definition and development custom modules, features, and package integration from proposal to product. Document features, modules, requirements, and the risks of each Cloud based initiative. Design system architecture and interface control using requirements.	

5.2.4. Senior Cloud Computing Specialist

Experience: 10 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Certification: CompTIA Cloud+ or Microsoft Certified Azure Solutions Architect	
Description: Cloud based design, definition and development custom modules, features, and package integration from proposal to product. Document features, modules, requirements, and the risks of each Cloud based initiative. Design system architecture and interface control using requirements.	

5.2.5. Cloud Security Specialist I

Experience: 3 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Strong understanding of Cloud information flows and process architecture necessary for implementation of cloud security. Uses information technology to plan, prepare, and execute cloud related security tasks. Prepares and reviews Cloud security architecture. Applies knowledge of security requirements, documentation, and risk mitigation strategies. Develops Cloud design documentation. Implements Cloud security policies and procedures. Conducts Cloud security audits against contractual requirements.	



5.2.6. Cloud Security Specialist II

Experience: 5 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Strong understanding of Cloud information flows and process architecture necessary for implementation of cloud security. Uses information technology to plan, prepare, and execute cloud related security tasks. Prepares and reviews Cloud security architecture. Applies knowledge of security requirements, documentation, and risk mitigation strategies. Develops Cloud design documentation. Implements Cloud security policies and procedures. Conducts Cloud security audits against contractual requirements.	

5.2.7. Cloud Security Specialist III

Experience: 8 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Certification: Certified Cloud Security Professional (CCSP)	
Description: Strong understanding of Cloud information flows and process architecture necessary for implementation of cloud security. Uses information technology to plan, prepare, and execute cloud related security tasks. Prepares and reviews Cloud security architecture. Applies knowledge of security requirements, documentation, and risk mitigation strategies. Develops Cloud design documentation. Implements Cloud security policies and procedures. Conducts Cloud security audits against contractual requirements.	

5.2.8. Senior Cloud Security Specialist

Experience: 10 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Certification: Certified Cloud Security Professional (CCSP)	
Description: Strong understanding of Cloud information flows and process architecture necessary for implementation of cloud security. Uses information technology to plan, prepare, and execute cloud related security tasks. Prepares and reviews Cloud security architecture. Applies knowledge of security requirements, documentation, and risk mitigation strategies. Develops Cloud design documentation. Implements Cloud security policies and procedures. Conducts Cloud security audits against contractual requirements.	

5.2.9. Cloud Systems Engineer I

Experience: 3 Years	Education: Bachelor's degree or Higher in Equivalent Field
Description: Implements and designs server, network, and software configurations for a cloud computing infrastructure and applications with a focus on DevOps principles. Monitors the performance of systems. Familiar with standard concepts, practices, and procedures of cloud technology, including Software as Service (SaaS), Platform as Service (PaaS), or Infrastructure as a Service (IaaS).	

**5.2.10. Cloud Systems Engineer II**

Experience: 5 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Implements and designs server, network, and software configurations for a cloud computing infrastructure and applications with a focus on DevOps principles. Monitors the performance of systems. Familiar with standard concepts, practices, and procedures of cloud technology, including Software as Service (SaaS), Platform as Service (PaaS), or Infrastructure as a Service (IaaS).	

5.2.11. Cloud Systems Engineer III

Experience: 8 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Certification: Microsoft Azure Developer or Microsoft Azure DevOps Engineer Description: Implements and designs server, network, and software configurations for a cloud computing infrastructure and applications with a focus on DevOps principles. Monitors the performance of systems. Familiar with standard concepts, practices, and procedures of cloud technology, including Software as Service (SaaS), Platform as Service (PaaS), or Infrastructure as a Service (IaaS).	

5.2.12. Senior Cloud Systems Engineer

Experience: 10 Years	Education: Bachelor's degree or Higher in Equivalent Field
Description: Implements and designs server, network, and software configurations for a cloud computing infrastructure and applications with a focus on DevOps principles. Monitors the performance of systems. Familiar with standard concepts, practices, and procedures of cloud technology, including Software as Service (SaaS), Platform as Service (PaaS), or Infrastructure as a Service (IaaS).	

5.2.13. Cloud Architect I

Experience: 3 Years	Education: Bachelor's degree or Higher in Equivalent Field
Certification: Microsoft Certified Solutions Architect or equivalent Description: Responsible for new cloud architecture design, development, and integration of new architectural features into existing cloud infrastructures while maintaining the integrity and security of enterprise-wide cyber systems and networks. Lead multi-disciplined teams in the design and implementation of the cybersecurity system architecture. Able to apply cyber security standards, directives, guidance, and policies to a cloud architectural framework. Compile industry best practices and lessons learned into future iterations and new designs for the cloud hosting environment. Some experience in the systems engineering lifecycle and specific cyber security initiatives relating to cloud design and development.	

5.2.14. Cloud Architect II

Experience: 5 Years	Education: Bachelor's degree or Higher in Equivalent Field
Certification: Microsoft Certified Solutions Architect or equivalent Description: Responsible for new cloud architecture design, development, and integration of new architectural features into existing cloud infrastructures while maintaining the integrity and security of enterprise-wide cyber systems and networks. Lead multi-disciplined teams in the design and implementation of the cybersecurity system architecture. Able to apply cyber security standards, directives, guidance, and policies to a cloud architectural framework. Compile industry best practices and lessons learned into future iterations and new designs for the cloud hosting environment. Provide broad based experience in the systems engineering lifecycle and specific cyber security initiatives relating to cloud architectural design and development.	



5.2.15. Cloud Architect III

Experience: 8 Years	Education: Bachelor's degree or Higher in Equivalent Field
Certification: Microsoft Certified Solutions Architect or equivalent Description: Responsible for new cloud architecture design, development, and integration of new architectural features into existing cloud infrastructures while maintaining the integrity and security of enterprise-wide cyber systems and networks. Lead multi-disciplined teams in the design and implementation of the cybersecurity system architecture. Able to apply cyber security standards, directives, guidance, and policies to a cloud architectural framework. Compile industry best practices and lessons learned into future iterations and new designs for the cloud hosting environment. Provide broad based experience in the systems engineering lifecycle and specific cyber security initiatives relating to cloud architectural design and development.	

5.2.16. Senior Cloud Architect

Experience: 10 Years	Education: Bachelor's degree or Higher in Equivalent Field
Certification: Microsoft Certified Solutions Architect or equivalent Description: Responsible for new cloud architecture design, development, and integration of new architectural features into existing cloud infrastructures while maintaining the integrity and security of enterprise-wide cyber systems and networks. Lead multi-disciplined teams in the design and implementation of the cybersecurity system architecture. Able to apply cyber security standards, directives, guidance, and policies to a cloud architectural framework. Compile industry best practices and lessons learned into future iterations and new designs for the cloud hosting environment. Provide broad based experience in the systems engineering lifecycle and specific cyber security initiatives relating to cloud architectural design and development. Resolve cloud architecture implementation issues during integration and test. Interface within internal and external entities for various solution related activities. Ability to develop and deliver end--to-end, complex, enterprise level solutions that meet current and future capability requirements.	

5.2.17. Cloud Infrastructure Consulting Service

Experience: 10 Years	Education: Bachelor's degree or Higher in Equivalent Field
We help you ensure high performance, stability and security of your cloud infrastructure as well as reduce costs of cloud migration, development, and cloud app maintenance.	

5.2.18. Cloud Migration Service

Experience: 10 Years	Education: Bachelor's degree or Higher in Equivalent Field
Cloud migration services are aimed at moving applications and databases to the cloud environment to achieve greater flexibility and cost-effectiveness. QP's cloud migration services span from migration planning and design up to the support of the migrated solution until full migration success.	

5.2.19. Cloud Infrastructure Management Service

Experience: 10 Years	Education: Bachelor's degree or Higher in Equivalent Field
We design, deploy, monitor, support, and optimize your cloud or hybrid IT infrastructure to ensure its high performance, availability, and scalability.	



6.0. Terms and Conditions related to SIN Earth Observation Solutions (541370GEO)

541370GEO Provides geospatial earth observation technologies, products, and services to include, but not limited to ground, satellite and aerial based sensor data and imagery, worldwide digital transmission, internet, data, and video services and products through various networks, platforms, and applications. Offerings include global coverage, imagery, analysis, as a service, change detection, human geography, observation as a service, archive storage and distribution, monitoring, base maps (mosaics), and earth observation solutions for accurate, mission critical information for uses to include, but not limited to, environmental, agriculture, meteorology, forestry, fish & wildlife habitats, disaster response and recovery, defense, maritime, mapping, humanitarian support, transportation, and public safety. NOTE: Subject to Cooperative Purchasing

Additional SIN Description: Includes direct-downlink and delivery services including ground and mobile ground terminals, direct access service, direct to cell phones, ships, and aircraft. Provides solutions based on commercially available dedicated, shared, or on-demand satellite resources and associated terrestrial components and/or airborne constellation/platforms including Unmanned Aerial Systems (UAS). This includes, but not limited to, ground, satellite-based or airborne communications, sensor data, imagery and geospatial collected or derived services and/or products. Sensor data includes electro-optical; synthetic aperture radar; Hyperspectral; LiDAR, geomagnetic field; gravity field, thermal, sonar, and all other current and emerging technologies. Includes remote sensing and analytic software products, software applications, software data management and analysis, and cloud applications. The full range of end-to-end data services are in the scope of this SIN to include, but not limited to, advanced data analytics, crowdsourcing, change detection, alert notification, machine learning, and emerging technologies and solutions.

6.1. Specific Instructions for SIN 541370GEO - Earth Observation Solutions.

6.1.1. Offerings shall comply with cited Department of Defense (DoD) standards, Intelligence Community (IC) standards, Open Geospatial Consortium (OGC) standards (<http://www.opengeospatial.org/standards>), and other standards such as <https://nationalmap.gov/standards> as specified by the ordering activity.

6.1.1.1. Information Assurance/Security Requirements

6.1.1.2. Offerors shall meet information assurance and security requirements in accordance with the ordering activity requirements.

6.1.1.3. Offerors shall be capable of meeting at least the minimum-security requirements assigned against a low-impact information system.

6.1.2. Technical Support: Without additional charge to the ordering activity, shall provide a hot line technical support number for the purpose of providing user assistance and guidance in the implementation of the software. The technical support number is available shall be available during specified hours.

6.1.2.1. At the task or delivery order level, provide a telephone number and hours of operation for technical support hotline; indicate applicable time zone for the hours of operation—i.e., Eastern time, Central, Mountain or Pacific time.

6.1.2.2. All services shall be billed in arrears in accordance with 31 U.S.C. 3324.

6.1.2.3. IT Professional Services are included in this SIN.



6.2. Earth Observation Solutions (541370GEO) Labor Categories

6.2.1. Project Manager

Experience: 10 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Serves as the contractor's contract manager and shall be the contractor's authorized interface with the Government Contracting Officer (CO), the Contracting Officer's Representative (COR), government management personnel and customer agency representatives. Responsible for formulating and enforcing work standards, assigning contractor schedules, reviewing work discrepancies, supervising contractor personnel, and communicating policies, purposes, and goals of the organization to subordinates within a cybersecurity environment. Shall be responsible for the overall contract performance. Ability to manage and ensure the successful completion multiple technical tasks in assigned program(s).	

6.2.2. Imagery Analyst Level A

Experience: 3 Years	Education: Associates Degree or Higher in Equivalent Field
Description: Knowledge of the principles, methods, and techniques used in statistical analysis. Knowledge of the principles, methods, and techniques used in database management. Ability to prepare and present technical research specific certifications or military education/training may be required, depending on job assignment. Provides analysis and research for national security, infrastructure, technology, country, geographic area, biographic and targeted vulnerability. Prepares assessments of current threats and trends based on the sophisticated collection, research, and analysis of classified and open-source information within Earth Observation Services. Assists with development of analytical procedures to meet changing requirements and ensure maximum operational success. Collects data using a combination of standard intelligence methods and business processes. Performs data collection, analysis, interpretation, and management duties. Prepares presentations that reflect the results of the data analysis. Works with scientists and other technical experts to design and develop statistical analyses methodologies. Maintains current knowledge of relevant technologies and subject areas. Participates in special projects as required.	

6.2.3. Imagery Analyst Level B

Experience: 6 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Knowledge of the principles, methods, and techniques used in statistical analysis. Knowledge of the principles, methods, and techniques used in database management. Ability to prepare and present technical research specific certifications or military education/training may be required, depending on job assignment. Provides analysis and research for national security, infrastructure, technology, country, geographic area, biographic and targeted vulnerability. Prepares assessments of current threats and trends based on the sophisticated collection, research, and analysis of classified and open-source information within Earth Observation Services. Assists with development of analytical procedures to meet changing requirements and ensure maximum operational success. Collects data using a combination of standard intelligence methods and business processes. Performs data collection, analysis, interpretation, and management duties. Prepares presentations that reflect the results of the data analysis. Works with scientists and other technical experts to design and develop statistical analyses methodologies. Maintains current knowledge of relevant technologies and subject areas. Participates in special projects as required.	



6.2.4. Imagery Analyst Level C

Experience: 8 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Knowledge of the principles, methods, and techniques used in statistical analysis. Knowledge of the principles, methods, and techniques used in database management. Ability to prepare and present technical research specific certifications or military education/training may be required, depending on job assignment. Provides analysis and research for national security, infrastructure, technology, country, geographic area, biographic and targeted vulnerability. Prepares assessments of current threats and trends based on the sophisticated collection, research, and analysis of classified and open-source information within Earth Observation Services. Assists with development of analytical procedures to meet changing requirements and ensure maximum operational success. Collects data using a combination of standard intelligence methods and business processes. Performs data collection, analysis, interpretation, and management duties. Prepares presentations that reflect the results of the data analysis. Works with scientists and other technical experts to design and develop statistical analyses methodologies. Maintains current knowledge of relevant technologies and subject areas. Participates in special projects as required	

6.2.5. Imagery Analyst Level D

Experience: 10 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Comprehensive knowledge of the principles, methods, and techniques used in statistical analysis. Comprehensive knowledge of the principles, methods, and techniques used in database management. Experience preparing and presenting technical research specific certifications or military education/training may be required, depending on job assignment. Provides analysis and research for national security, infrastructure, technology, country, geographic area, biographic and targeted vulnerability. Prepares assessments of current threats and trends based on the sophisticated collection, research, and analysis of classified and open-source information. Develops and maintains analytical procedures to meet changing requirements and ensure maximum operational success within Earth Observation Services. Collects data using a combination of standard intelligence methods and business processes. Performs and manages data collection, analysis, interpretation, and management duties. Prepares presentations that reflect the results of the data analysis. Provides data-related training to staff. Coordinates with scientists and other technical experts to design and develop statistical analyses methodologies. May provide guidance and work leadership to less-experienced staff. Maintains current knowledge of relevant technologies and subject areas. Participates in special projects as required.	

6.2.6. Imagery Analyst Level E

Experience: 12 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Comprehensive knowledge of the principles, methods, and techniques used in statistical analysis. Comprehensive knowledge of the principles, methods, and techniques used in database management. Experience preparing and presenting technical research specific certifications or military education/training may be required, depending on job assignment. Provides analysis and research for national security, infrastructure, technology, country, geographic area, biographic and targeted vulnerability. Prepares assessments of current threats and trends based on the sophisticated collection, research, and analysis of classified and open-source information. Develops and maintains analytical procedures to meet changing requirements and ensure maximum operational success within Earth Observation Services. Collects data using a combination of standard intelligence methods and business processes. Performs and manages data	



collection, analysis, interpretation, and management duties. Prepares presentations that reflect the results of the data analysis. Provides data-related training to staff. Coordinates with scientists and other technical experts to design and develop statistical analyses methodologies. May provide guidance and work leadership to less-experienced staff. Maintains current knowledge of relevant technologies and subject areas. Participates in special projects as required.

6.2.7. Geospatial Analyst

Experience: 6 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Responsible for performing complex and timely geospatial, topographic, and imagery analysis. Duties include but are not limited to the Processing Exploitation and Dissemination (PED) of ground feature data and remotely sensed data such as Multi- Spectral Imagery (MSI), Light Detection and Ranging (LiDAR), and Electro-Optical Imagery. Shall demonstrate effective written and oral communication skills, with the ability to brief superiors and customers on technical matters.	

6.2.8. Senior Geospatial Analyst

Experience: 10 Years	Education: Bachelor's degree or Higher in Equivalent Field
Description: Highly proficient in integrating with other intelligence disciplines. Demonstrates a superior knowledge of how geospatial techniques are used to support the F3EA targeting cycle. Demonstrates an established capability to interact professionally with senior leaders and partner organizations. Shall demonstrate proficiency in geospatial and intelligence data management within a variety of OGC compliant applications and databases. Demonstrate a capability to act in a project lead role. Shall be highly proficient in utilizing GIS applications and intelligence related automation to support analytical efforts and product development. Performs imagery analysis and production and possess a broad understanding of collection processes and management. Research, trains, documents, and implements geospatial processing methodologies to solve complex tactical intelligence problems.	



6.2.9. ISR Collection Manager

Experience: 5 Years	Education: Associates degree or Higher in Equivalent Field
Description: Responsible for coordinating IMINT/Full-Motion Video collection requirements and ensures all intelligence data is properly disseminated. Monitors various systems for new nominated requirements, validates, and distributes them as required. Develops training tools as required on all aspects of IMINT ISR mission accomplishment. Responsible for giving presentations and briefings when required. Provide written and oral reports and briefings as needed. Must have a thorough understanding of DoD and Service collection techniques, capabilities, and applications. Knowledge of communication and dissemination architectures is desired. Proficient in using manned / unmanned full motion video (FMV) imagery platforms to collect intelligence. Proficient using basic computer applications to include Microsoft Office and intelligence related automation to include Falconview, C2PC and experience with Intelligence Community Collection management systems (e.g., Coliseum) mission applications, and communications capabilities within JWICS, INTELINK, and SIPRNET (e.g., MIRC, Jabber Chat etc.). possess writing and briefing skills and be capable of effectively operating as a member team. Provides analysis and research for industry, infrastructure, technology, country, geographic area, biographic and targeted vulnerability. Prepares assessments of current events based on the sophisticated collection, research, and analysis of classified and open-source information. Develops and maintains analytical procedures to meet changing requirements and ensure maximum operations. Collects data using a combination of standard intelligence methods and business processes.	

6.2.10. Imagery Analyst Trainer

Experience: 8 Years	Education: Bachelor's degree or Higher in Equivalent Field
Description: Delivers in-resident and distance learning instructional programs in accordance with course requirements. Uses instructional methods such as, guided discussions, lectures, demonstrations, small group exercises, seminars, workshops, and laboratories. Uses Instructional technology, including but not limited to Blackboard. Conducts assessment strategy in accordance with the course design, including instructor observation, testing, and grading. Provides formal and informal student feedback. Provides subject matter expertise throughout the curriculum creation process, including content review and feedback to development staff. Relevant instructional experience includes, but is not limited to, experience developing and delivering technical training and educational courses in academic, commercial, government, or industrial organizations.	

6.2.11. Principal GIS Consultant / Program Manager

Experience: 15 Years	Education: Bachelor's degree or Higher in Equivalent Field
Description: Staff members in this labor category work as program directors or project advisers, providing project vision, strategic consulting, and program management activities for GIS/IT and IT projects. These staff members apply market/application domain expertise using extensive experience in GIS/IT and related geospatial technologies to support the successful completion of the program. Consulting activities may include strategic planning, review and oversight of requirements definitions, application and database design, and system integration. Management activities may include defining program requirements and objectives, establishing budgets and schedules, allocating staff and other resources, and managing and overseeing subcontractor activities. Staff members in this labor category work with senior client staff in coordination with QP senior management to resolve issues and support successful project completion.	

6.2.12. Senior GIS Consultant / Project Manager



Experience: 7 Years	Education: Bachelor's degree or Higher in Equivalent Field
Description: Staff members in this labor category work as project managers or project advisers, providing strategic consulting and project management activities for GIS/IT and information technology (IT) projects. These staff members have market/application domain expertise using extensive experience in GIS/IT and related geospatial technologies to support the successful completion of a project. Consulting activities may include strategic planning, GIS/IT workshops and seminars development, requirements definition, application and database design, and system integration. Management activities may include defining project requirements and objectives, establishing budgets and schedules, allocating staff and other resources, and managing and overseeing subcontractor activities. These individuals may also design comprehensive work plans that employ standard system methodologies that define project deliverables and milestones and realistic schedules.	

6.2.13. GIS Consultant / Site Lead

Experience: 5 Years	Education: Bachelor's degree or Higher in Equivalent Field
Description: Staff members in this labor category provide day-to-day consulting and management for contracted projects within QP. These individuals work under the guidance of senior QP managers described herein and support the design and implementation of project work plans. These staff members may provide consulting services to several aspects of GIS/IT implementation. They may also conduct detailed requirements interviews, document application requirements, develop logical and physical database designs using standard engineering diagramming methodologies, design software and database QA/QC programs, and provide management oversight of daily technical activities. These staff members work with senior consulting and technical staff to design comprehensive work plans that employ standard system methodologies that define project deliverables, milestones, and realistic schedules. These individuals work with QP administrative staff to ensure that progress and financial reporting is provided according to contract requirements. This category of staff may also consult and manage training development and delivery project	

6.2.14. Senior GIS System / Software Architect

Experience: 7 Years	Education: Bachelor's degree or Higher in Equivalent Field
Description: Staff members in this labor category provide the overall technical vision and system architecture for large, complex systems. They support the application of sound software engineering principles and life cycle methodologies to programs/projects. These individuals are actively involved in systems architecture design, application software design, database process design, and the directing of coding development including the supervision of design and code reviews. These staff members may serve as principal investigators in focused studies or research and development projects. Individuals in this labor category have broad technical knowledge of geographic information system (GIS/IT) applications and related information technologies and may also provide specific expertise in areas such as web-based software applications, service-oriented architectures, data warehousing, spatial analysis, and modeling. As a group, these staff members are proficient in QP COTS software products; software and database design methodologies; web, desktop, and server software development languages; geospatial data formats; and other technologies	

6.2.15. GIS Systems / Software Developer

Experience: 7 Years	Education: Bachelor's degree or Higher in Equivalent Field
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Description: Staff members in this labor category support the design of technical project specifications for the implementation of application software projects and database development projects. They support the day-to-day technical activities of the project team and ensure that standard system methodologies are employed. They also perform detailed software design and detailed database conversion design and are directly involved in the coding and implementation of complex and strategic portions of application software and database conversion projects. As a group, these staff members are proficient in QP COTS software products; web, desktop, and server software development languages; geospatial data formats; and other technologies. These staff members design and develop QA/QC programs and support design and code reviews, database reviews, and other QA/QC activities throughout the project life cycle. This category of staff includes senior staff who apply subject-matter expertise to design, develop, and deliver training content and supporting technologies, leveraging adult learning methodologies.

6.2.16. GIS Technical Specialist / Engineer

Experience: 5 Years	Education: Bachelor's degree or Higher in Equivalent Field
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Description: Staff members in this labor category work collaboratively with software designers to perform software coding and the writing of software documentation according to design specifications developed by senior technical staff described below. As a group, these staff members are experienced in the coding of software and the creation of digital databases, as well as in software development associated with QP's commercial off-the-shelf (COTS) software products; web, desktop, or server software development languages; geospatial data formats; and other technologies. These individuals also develop effective database designs, implement data conversion processes and procedures, and perform software and database quality control. This category also includes staff involved in the development and delivery of training and those with expertise in creating, editing, and teaching training content.

6.2.17. GIS Database Specialist / Analyst

Experience: 3 Years	Education: Bachelor's degree or Higher in Equivalent Field
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Description: Staff members in this labor category provide database development support in creating cartographic and digital data products. These staff members have expertise that includes the performance of hard copy to digital data conversion tasks, data migration, and translation activities utilizing advanced processing techniques in ArcGIS/IT. These individuals design, develop, and implement efficient production tools and workflows in accordance with approved project plans and design parameters.

6.2.18. Junior Cartographer / GIS Analyst

Experience: 2 Years	Education: High School diploma, technical degree or formal certification in CAD or GIS map making.
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Description: Creates and prepares maps and graphics for inclusion in foundation geospatial systems, technical reports and provides technical assistance in cartography to project staff. Assists production staff in the compilation and production of technical reports and proposals. Prepares draft maps and manipulates databases to reformat fields, remove duplicates, and provide other services as needed.

6.2.19. Mid Cartographer / GIS Analyst

Experience: 5 Years	Education: Associate Degree, technical degree or formal certification in CAD or GIS map making.
Description: Creates and prepares maps and graphics for inclusion in foundation geospatial systems technical reports and provides technical assistance in cartography to project staff. Assists production staff in the compilation and production of technical reports and proposals. Manages daily workflow. Prepares clear and accurate maps, manipulates databases to reformat fields, remove duplicates, and provide other services as needed. Participates in data and software maintenance.	

6.2.20. Senior Cartographer / GIS Analyst

Experience: 10 years	Education: Bachelor's degree, technical degree or formal certification in CAD or GIS map making.
Description: Creates and prepares maps and graphics for inclusion in foundation geospatial systems, technical reports and provides supervision and technical oversight of project staff. Manage daily workflow. Prepares clear and accurate maps from written or electronic mapping requests with quality and accuracy. Manipulates databases to reformat fields, remove duplicates and provide other services as needed. Participates in data and software maintenance. Consults with personnel to determine how mapping and geographic data is best incorporated into technical documents. Participate in presentation and strategy sessions in support of GIS technical sessions.	

6.2.21. Junior Information Technology Forensics Media Examiner

Experience: 3 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst	
Description: Demonstrate an understanding of the technical fundamentals and core forensic principles required to perform all the aforementioned tasks with competency and accuracy. Demonstrate fluency in at least one, but preferably multiple, core commercial forensic imaging tools such as: DD (or DC3dd), FTK Imager, EnCase Imager, AXIOM Acquire, Imaging for Operations (IO). Demonstrate fluency in at least one, but preferably multiple, core commercial forensic analysis platform such as: EnCase (Opentext), X-Ways Forensics (X-Ways Software Technology AG), Forensic Toolkit [FTK] (ACCESSDATA), MAGNET Axiom (Magnet Forensics). Possess at least one active industry or DoD standard forensic certification (i.e., EnCE, ACE, CCE, GIAC, CFCE, DC3/DCITA Certified Digital Forensic Examiner). Possess experience conveying highly technical information effectively and concisely to a wide range of audiences via both briefings and technical reports. Possess the ability to thrive in a mission-critical and time-sensitive environment.	



6.2.22. MID Information Technology Forensics Media Examiner

Experience: 5 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Demonstrate an understanding of the technical fundamentals and core forensic principles required to perform all the aforementioned tasks with competency and accuracy. Demonstrate fluency in at least one, but preferably multiple, core commercial forensic imaging tools such as: DD (or DC3dd), FTK Imager, EnCase Imager, AXIOM Acquire, Imaging for Operations (IO). Demonstrate fluency in at least one, but preferably multiple, core commercial forensic analysis platform such as: EnCase (opentext), X-Ways Forensics (X-Ways Software Technology AG), Forensic Toolkit [FTK] (ACCESSDATA), MAGNET Axion (Magnet Forensics). Possess at least one active industry or DoD standard forensic certification (i.e., EnCE, ACE, CCE, GIAC, CFCE, DC3/DCITA Certified Digital Forensic Examiner). Possess experience conveying highly technical information effectively and concisely to a wide range of audiences via both briefings and technical reports. Possess the ability to thrive in a mission-critical and time-sensitive environment.	

6.2.23. Senior Information Technology Forensics Media Examiner

Experience: 8 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Demonstrate an understanding of the technical fundamentals and core forensic principles required to perform all the aforementioned tasks with competency and accuracy. Demonstrate fluency in at least one, but preferably multiple, core commercial forensic imaging tools such as: DD (or DC3dd), FTK Imager, EnCase Imager, AXIOM Acquire, Imaging for Operations (IO). Demonstrate fluency in at least one, but preferably multiple, core commercial forensic analysis platform such as: EnCase (opentext), X-Ways Forensics (X-Ways Software Technology AG), Forensic Toolkit [FTK] (ACCESSDATA), MAGNET Axion (Magnet Forensics). Possess at least one active industry or DoD standard forensic certification (i.e., EnCE, ACE, CCE, GIAC, CFCE, DC3/DCITA Certified Digital Forensic Examiner). Possess experience conveying highly technical information effectively and concisely to a wide range of audiences via both briefings and technical reports. Possess the ability to thrive in a mission-critical and time-sensitive environment.	

6.2.24. Junior Forensic Software Developer \ Reverse Engineer

Experience: 3 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Demonstrate an understanding of the technical fundamentals and core software development principles required to perform all of the aforementioned tasks with competency and accuracy. Demonstrate fluency in both high- and low-level programming languages, to include specifically C# and Python. Demonstrate proficiency with debuggers. Demonstrate fluency with a Hex editor. Possess the ability to gather testable software requirements and to participate in the design of new applications. Execute with maintainable software processes, including software documentation, source code versioning, and unit testing. Be able to quickly adapt to new situations and problems. Be familiar with assembly languages. Possess the aptitude for reverse engineering windows and mobile binaries. Possess the ability to thrive in a mission-critical and time-sensitive environment. Ideally candidates are also familiar with the Windows API and with IDA pro	



6.2.25. MID Forensic Software Developer \ Reverse Engineer

Experience: 5 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Demonstrate an understanding of the technical fundamentals and core software development principles required to perform all of the aforementioned tasks with competency and accuracy. Demonstrate fluency in both high- and low-level programming languages, to include specifically C# and Python. Demonstrate proficiency with debuggers. Demonstrate fluency with a Hex editor. Possess the ability to gather testable software requirements and to participate in the design of new applications. Execute with maintainable software processes, including software documentation, source code versioning, and unit testing. Be able to quickly adapt to new situations and problems. Be familiar with assembly languages. Possess the aptitude for reverse engineering windows and mobile binaries. Possess the ability to thrive in a mission-critical and time-sensitive environment. Ideally candidates are also familiar with the Windows API and with IDA pro	

6.2.26. Senior Forensic Software Developer \ Reverse Engineer

Experience: 8 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Demonstrate an understanding of the technical fundamentals and core software development principles required to perform all the aforementioned tasks with competency and accuracy. Demonstrate fluency in both high- and low-level programming languages, to include specifically C# and Python. Demonstrate proficiency with debuggers. Demonstrate fluency with a Hex editor. Possess the ability to gather testable software requirements and to participate in the design of new applications. Execute with maintainable software processes, including software documentation, source code versioning, and unit testing. Be able to quickly adapt to new situations and problems. Be familiar with assembly languages. Possess the aptitude for reverse engineering windows and mobile binaries. Possess the ability to thrive in a mission-critical and time-sensitive environment. Ideally candidates are also familiar with the Windows API and with IDA pro	

6.2.27. Information Technology Computer Forensics Engineer

Experience: 8 Years	Education: Bachelor's or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform all engineering-related tasks of new and existing assignments, meeting project requirements and producing high quality and client-ready work products. Provide engineering services on new and existing assignments as part of a multi-disciplinary team; tasks to include preparing work papers and drafting client deliverables, while working within established time frames and budget. Engage in engineering investigations and studies: Conduct site visits to monitor work in progress; audit payment requisitions for completed contract work; perform quality assurance and quality control audits for inspections; review change orders for contract compliance, accuracy, and completeness; inappropriate material submission or substitution; procurement reviews; prevailing wage interviews. Interact with clients, client representatives and personnel from construction management firms/general contractors. Conduct interviews to support investigation activities.	

Experience: 3 Years	Education: Bachelor's or higher relevant degree
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Certification: None

Description: Manage priorities and assignments for the team, ensuring appropriate work distribution and reporting, and performing regular metrics reporting. Three years of experience in intelligence analysis Nine plus years of professional experience. Capable of managing priorities and task assignments. Experience with report writing and report editing

6.2.28. Information Technology Workflow Coordinator / Data Manager

6.2.29. Information Technology Mobile Computer Forensic Analyst

Experience: 8 Years	Education: Bachelor's or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform full-scope forensic examinations which include: Demonstrated experience in the field of digital media forensics, Demonstrated experience in mobile device data extraction and analysis, Understanding of computer file systems, In-depth experience with file system forensics, In-depth experience with registry analysis, In-depth experience with Internet history analysis, Understanding of steganography and encryption detection and analysis, Understanding of managing complex large data set analysis, In-depth experience with timeline analysis, Experience with forensic media imaging, In-depth experience with email analysis, In-depth experience with signature and hash analysis, Demonstrated experience with forensics tools such as EnCase, Forensic Toolkit, and X-ways, Strong documentation and written communication skills with technical report writing experience.	

6.2.30. Senior Information Technology Digital Forensic Analyst

Experience: 10 Years	Education: Bachelor's or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform full-scope forensic examinations which include: Demonstrated experience in the field of digital media forensics, Demonstrated experience in mobile device data extraction and analysis, Understanding of computer file systems, In-depth experience with file system forensics, In-depth experience with registry analysis, In-depth experience with Internet history analysis, Understanding of steganography and encryption detection and analysis, Understanding of managing complex large data set analysis, In-depth experience with timeline analysis, Experience with forensic media imaging, In-depth experience with email analysis, In-depth experience with signature and hash analysis, Demonstrated experience with forensics tools such as EnCase, Forensic Toolkit, and X-ways, Strong documentation and written communication skills with technical report writing experience	



7.0. Terms and Conditions Related to SIN 54151S Information Technology Professional Services

54151S IT Professional Services and/or labor categories for database planning and design; systems analysis, integration, and design; programming, conversion, and implementation support; network services, data/records management, and testing. NOTE: Subject to Cooperative Purchasing.

7.1. Instructions: Specific Instructions for SIN 54151S - Information Technology Professional Services

7.1.1. * All services shall be billed in arrears in accordance with 31 U.S.C. 3324.

7.1.2. F04. IT Software Subcategory Instructions: *****Best-in-Class (BIC) Designation***** Offerors submitting an offer for a SIN(s) under the "IT Software Sub-category" must also comply with the following:

7.1.3. Technical Support: Without additional charge to the ordering activity, shall provide a hot line technical support number for the purpose of providing user assistance and guidance in the implementation of the software. The technical support number is available shall be available during specified hours.

7.1.3.1. At the task or delivery order level, provide a telephone number and hours of operation for technical support hotline; indicate applicable time zone for the hours of operation—i.e., Eastern time, Central, Mountain or Pacific time.

7.1.4. Descriptions and Equipment Compatibility: Offerors shall include as an attachment to the GSA Price List (I-FSS-600 CONTRACT PRICE LISTS (OCT 2016) a complete description of each software product including the operating systems on which the software can be used. Also included shall be a brief, introductory explanation of the modules and documentation which are offered.

7.1.5. Right-to-Copy Pricing: Offerors shall insert the discounted pricing for right-to-copy licenses, if commercially available, in an attachment to the GSA Price List (I-FSS-600 CONTRACT PRICE LISTS (OCT 2016).

7.1.6. Utilization Limitations

7.1.6.1. Software acquisition is limited to commercial computer software defined in FAR Part 2.101.

7.1.6.2. When acquired by the ordering activity, commercial computer software and related documentation shall be subject to the following:

7.1.6.3. Title to and ownership of the software and documentation shall remain with the Contractor, unless otherwise specified.

7.1.6.4. 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 agencies have joint projects that can be satisfied by the use of the software placed at one ordering activity's site. This would allow other agencies 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.

7.1.6.5. Except as provided 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.

7.1.6.6. The ordering activity shall have the right to use the software and documentation with the run-time computing environment (e.g. operating system, virtual machine, mobile operating system, processor etc.) to be specifically identified for which it is acquired at any other facility/user device to which that time computing environment may be transferred, or in cases of Disaster Recovery, the ordering activity has the right to transfer the software to another site/user device if the ordering activity site for which it is acquired is deemed to be unsafe for ordering activity personnel; to use the software and documentation with a backup time computing environment when the primary is inoperative; to copy computer programs for safekeeping (archives) or backup purposes; to transfer a copy of the software to another site/user 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.

7.1.6.7. "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.

7.1.6.8. Licensee Data belongs exclusively to Licensee, regardless of where the Data may reside at any moment in time including, but not limited to Licensor hardware, networks or other infrastructure and facilities where Data may reside, transit through or be stored from time to time. Licensor makes no claim to a right of ownership in Licensee Data. Licensor agrees to keep the Licensee Data Confidential as that term is defined in the relevant FAR and DFARS provisions pertaining to Confidential Information and Confidentiality. Licensor is not permitted to use Licensee's data for a purpose that is not explicitly granted in writing by Licensee. Upon Licensee request, for any reason whatsoever, Licensor must promptly return all Licensee Data in Licensor's possession in a format as may be designated at the time of request by Licensee.

7.1.6.9. Licensee may create or hire others (including Licensor) to create modifications, customizations or other enhancements to the Software which might be classified as "Derivative Works" of the software. Unless otherwise negotiated and mutually agreed upon at the order level, the intellectual property (IP) rights to the Derivative Works shall be owned by the owner of the underlying intellectual property. The Derivative Work[s] shall be made available to the Licensee through a royalty free, perpetual worldwide, no charge license to the Licensee.

7.1.7. Continuous Diagnostics and Mitigation (CDM) Approved Products GSA has partnered with the Cybersecurity and Infrastructure Security Agency (CISA) to showcase CISA approved CDM tools. The CISA CDM Program's Approved Products List (APL) is the authoritative catalog for all approved CDM Tools and associated services. CDM APL Tools will carry the CDM tools symbol. The full complement of CDM subcategories includes tools, associated maintenance, and other related activities such as training. The CDM products and associated services undergo a DHS CISA product qualification process in order to be added to the CDM Approved Products List (APL). The APL features high-quality cybersecurity vendors offering products and related services to Federal, State, and Local Governments. CISA only accepts submissions to modify the CDM APL monthly. Offerors can submit updates to the APL on the first Monday of the first full or partial week of the month, with submissions being accepted through Friday of that week. A full submission calendar can be found on our website. For technical and CDM APL related questions, please contact the CISA CD Program Office at (csd_cb.acqbudg@cisa.dhs.gov).



7.2. Information Technology Professional Services (SIN 54151S) Labor Categories

7.2.1. Web Software Developer

Experience: 5 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Provide support to develop Web based applications including online customer service to transform government agencies to be able to deliver their services online. Provide support in developing the site concept, interface design, and architecture of the website. Provide support for the implementation of interfaces to applications. Working knowledge and experience coding in Java is required. Knowledge of several of the following areas is desirable: Active Server Pages, JavaScript, Visual Basic, JavaScript, Access, HTML, DBMS's (ex. - Oracle, Sybase, etc.) and knowledge of SQL in SQL server.	

7.2.2. Testing Engineer

Experience: 5 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Possesses and applies expertise on multiple complex work assignments. Assignments may be broad in nature, requiring originality and innovation in determining how to accomplish tasks. Operates with appreciable latitude in developing methodology and presenting solutions to problems. Contributes to deliverables and performance metrics where applicable. Evaluates, recommends, and implements automated test tools and strategies. Designs, implements, and conducts test and evaluation procedures to ensure system requirements are met. Develops, maintains, and upgrades automated test scripts and architectures for application products. Also writes, implements, and reports status for system test cases for testing. Analyzes test cases and provides regular progress reports. Serves as subject matter specialist providing testing know-how for the support of user requirements of complex to highly complex software/hardware applications. Directs and/or participates in all phases of risk management assessments and software/hardware development with emphasis on analysis of user requirements, test design and test tools selection.	

7.2.3. IT Systems Engineer

Experience: 10 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Possesses and applies expertise on multiple complex work assignments. Assignments may be broad in nature, requiring originality and innovation in determining how to accomplish tasks. Operates with appreciable latitude in developing methodology and presenting solutions to problems. Contributes to deliverables and performance metrics where applicable. Provides analysis related to the design, development, and integration of hardware, software, man-machine interfaces, and all system level requirements to provide an integrated IT solution. Develops integrated system test requirement, strategies, devices, and systems. Directs overall system level testing.	

7.2.4. Network Engineer

Experience: 5 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Resolves complex network problems. Addresses network security issues. Interfaces with all client levels. Presents recommendations on network interfaces and configurations. Participates in and may lead aspects of major network installations and upgrades. Works with vendors and network analysts as appropriate to resolve unusually complex network problems. Provides guidance to less experienced network administrators. Performs complex assignments with little guidance level testing.	

7.2.5. SharePoint Developer

Experience: 5 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Possesses and applies expertise on multiple complex work assignments. Assignments may be broad in nature, requiring originality and innovation in determining how to accomplish tasks. Operates with appreciable latitude in developing methodology and presenting solutions to problems. Contributes to deliverables and performance metrics where applicable. Primary responsibility will be to work with the team to design and build new solutions. Serve as a second or third level support resource for existing SharePoint sites. Advise team- members and developers of governance and policies around SharePoint and the intranet platform. Collaborate closely with the SharePoint and intranet technical team, as well as business partners on successful integration of sites and applications. Estimate effort to build no-code solutions for a specific set of business and technical requirements.	



7.2.6. Senior SharePoint Developer

Experience: 5 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Possesses and applies a comprehensive knowledge across key tasks and high impact assignments. Plans and leads major technology assignments. Evaluates performance results and recommends major changes affecting short-term project growth and success. Functions as a technical expert across multiple project assignments. May supervise others. Demonstrated experience with the installation, configuration, and administration of current and future MS SharePoint Portal Environments (including portal design, creating Web Parts, and document libraries), Internet Explorer 7.0 or later, and SharePoint Designer software application. Must be capable of interacting with Senior Staff, conduct briefings as required, gather Information Sharing and Collaboration technical requirements, conduct training as required and have high level technical writing skills. Expert, In-depth and functional knowledge of HTML5, JavaScript (JS), JS-Based frameworks, jQuery, Mashups, RSS, KML, XML, XSL/XSLT, web services, CAML, XPATH, AJAX, HTML, CSS, and object models to include CSOM, REST and JSON, in order to customize critical enhancements of the existing web environment Personnel will Experience with XML integration, InfoPath, SharePoint services, and the integration of other services and products with a structured query language database server.	

7.2.7. Systems Integration Specialist

Experience: 5 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Responsibilities include assisting in monitoring and adjusting network constraints to ensure optimum performance. Works with operation management and client in aiding implementation of specific technology approach. Installs and supports LAN. Creates documentation for system support and users. Supports the evaluation of hardware and software. Assists in testing of system and application software.	

7.2.8. Network Integration Specialist

Experience: 5 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Responsibilities include assisting in monitoring and adjusting network constraints to ensure optimum performance. Works with operation management and client in aiding implementation of specific technology approach. Installs and supports LAN and configures networks. Analyzes network characteristics (e.g., traffic, transmission speeds, throughput, etc.). Also assists in troubleshooting fiber transmission facilities and over-all maintenance of network equipment. Creates documentation for system support and users. Supports the evaluation of hardware and software. Assists in testing of system and application software	

7.2.9. Data Base Manager

Experience: 5 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Responsible for ensuring the design, maintenance, and implementation of database management systems, which provides the organization with orderly methods of data storage and controlled access to data. Possesses the technical expertise to provide leadership and manage the design and development of the organization's database environment. Ensures the design and installation of database management system applications and the establishment of the appropriate linkages to existing database applications and to other data processing systems. Ensures the development of a backup and recovery scheme for the database environment and the development and implementation of disaster recovery and business continuance procedures. Works under general direction. Manages and mentors' staff and/or more junior management staff.	

7.2.10. Database Administrator

Experience: 5 Years	Education: Bachelor's Degree or Higher in Equivalent Field
Description: Manages and maintains all production and non-production databases. Responsible for standards and design of physical data storage, maintenance, access, and security administration. Performs backup and recovery on Database Management Systems, configures database parameters, and prototype designs against logical data models, defines data repository requirements, data dictionaries and warehousing requirements. This position optimizes database access and allocates/re-allocates database resources for optimum configuration, database performance and cost. Works independently or as a part of a team under general supervision. May coach more junior technical staff.	

**7.2.11. Help Desk Specialist - Junior**

Experience: 2 Years	Education: Associates Degree or Higher in Equivalent Field
Certifications: CompTIA (A+ or Network+ or Security+ or Linux+) Description: Responds to and diagnoses problems through discussion with users, ensures a timely process through which problems are controlled. Includes problem, recognition, research, isolation, resolution, and follow-up steps, supervises operation of help desk and serves as focal point for customer concerns.	

7.2.12. Help Desk Specialist - Intermediate

Experience: 5 Years	Education: Associates Degree or Higher in Equivalent Field
Certifications: CompTIA (A+ or Network+ or Security+ or Linux+) Description: Responds to and diagnoses problems through discussion with users Ensures a timely process through which problems are controlled. Includes problem recognition, research, isolation, resolution, and follow-up steps Supervises operation of help desk and serves as focal point for customer concerns.	

7.2.13. Help Desk Specialist - Senior

Experience: 7 Years	Education: Associates Degree or Higher in Equivalent Field
Certifications: CompTIA (A+ or Network+ or Security+ or Linux+) Description: Responds to and diagnoses problems through discussion with users, ensures a timely process through which problems are controlled. Includes problem recognition, research, isolation, resolution, and follow-up steps Supervises operation of help desk and serves as focal point for customer concerns.	

7.2.14. Help Desk Manager

Experience: 10 Years	Education: Associates Degree or Higher in Equivalent Field
Certifications: CompTIA (A+ or Network+ or Security+ or Linux+) Description: Provides daily supervision and direction to staff who 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. These personnel serve as the first point of contact for troubleshooting hardware/software PC and printer problems. Significant equivalent experience, training and/or certifications may be substituted in lieu of degree.	

7.2.15. Data Entry Clerk

Experience: 0 Years	Education: High School/GED or Higher in Equivalent Field
Description: Responsibilities include keying data from hard copy into electronic medium; proofing information and making edits as necessary; performing quality control and filing hard copy information upon completion.	

7.2.16. Information Systems Training Specialist

Experience: 5 Years	Education: Bachelor's degree or Higher in Equivalent Field
Description: Responsibilities include providing support for coordinating, developing, and delivering computer-related training to the user community. Provide second level support and coordinate training with help desks. Provide standards, services, and guidance on IT related training programs that are designed to enable government agency personnel to use information technologies and systems more productively. Services include the development, delivery, and/or coordination of training courses and materials that address specific agency needs. Possess thorough knowledge of appropriate hardware and software (ex. - PCs, Microsoft (MS) Windows, MS Office, and applications such as from SAP and Peoplesoft). Understand computer functions and related technical terminology and how they are applied in everyday business situations. Possess exceptional interpersonal skills and superior oral and written communication skills.	

7.2.17. Information Security Analyst I

Experience: 3 Years	Education: Bachelor's Degree
Description: Designs, develops, or recommends integrated security system and physical control solutions that will ensure proprietary/confidential data and systems are protected. Provides technical engineering services for the support of integrated security systems and solutions to manage information-related risks. Participates with the client in the strategic design process to translate security and business requirements into technical designs. Configures and validates secure systems and physical controls, and tests security products and systems to detect security weakness. Works on tasks where analysis of data requires an evaluation of various factors. Works within broadly defined practices and policies. Normally receives no instruction on routine work but will receive general instruction on new assignments.	

**7.2.18. Information Security Analyst II**

Experience: 5 Years	Education: Bachelor's Degree
Certification: CompTIA (A+ or Network+ or Security+ or Linux+) Description: Designs, develops, or recommends integrated security system and physical control solutions that will ensure proprietary/confidential data and systems are protected. Provides technical engineering services for the support of integrated security systems and solutions to manage information-related risks. Participates with the client in the strategic design process to translate security and business requirements into technical designs. Configures and validates secure systems and physical controls, and tests security products and systems to detect security weakness. May provide guidance to others to achieve goals in accordance with established policies. Works on problems of moderate scope where analysis of data requires an evaluation of various factors. Works	

7.2.19. Information Security Analyst III

Experience: 8 Years	Education: Bachelor's Degree
Certification: CompTIA (A+ or Network+ or Security+ or Linux+) Description: Designs, develops, or recommends integrated security system and physical control solutions that will ensure proprietary/confidential data and systems are protected. Provides technical engineering services for the support of integrated security systems and solutions to manage information-related risks. Participates with the client in the strategic design process to translate security and business requirements into technical designs. Configures and validates secure systems and physical controls, and tests security products and systems to detect security weakness. Provides guidance to others to achieve goals in accordance with established policies. Works on problems of diverse scope where analysis of client's data requires an evaluation of various factors. May determine methods and procedures on new assignments and provide guidance to nonexempt personnel.	

7.2.20. Information Security Analyst IV

Experience: 10 Years	Education: Bachelor's Degree
Certification: CompTIA (A+ or Network+ or Security+ or Linux+) Description: Designs, develops, or recommends integrated security system and physical control solutions that will ensure proprietary/confidential data and systems are protected. Provides technical engineering services for the support of integrated security systems and solutions to manage information-related risks. Participates with the client in the strategic design process to translate security and business requirements into technical designs. Configures and validates secure systems and physical controls, and tests security products and systems to detect security weakness. Provides guidance to others to achieve goals in accordance with established policies. Works on complex problems where analysis of situation or data requires an in-depth evaluation of various factors. May be responsible for the technical direction, leadership, and training of less related experienced staff. Acts independently to determine methods and procedures on new assignments.	

7.2.21. Program/Project Manager I

Experience: 3 Years	Education: Bachelor's Degree
Description: Responsible for managing the implementation of a project or program. Plans, coordinates, and manages the actions taken by an organization to acquire and execute a specific piece of business, either competitively or non-competitively. Integrates all functions and activities necessary to perform the project/program to meet the client or customer requirements. Plans and implements actions by the program/project team to define and implement technical baselines and meet quality requirements for project/program products and services. Directs project/program team personnel, manages cost and schedule, ensures contract compliance, and serves as project/program interface. Responsible for managing many tasks or functions of a single project/program. Manages technical, cost, and schedule of assigned tasks or functions and has frequent interface with task leaders, subcontractors, support personnel and customer(s). Responsible for managing small to moderate risk project/program.	

**7.2.22. Program/Project Manager II**

Experience: 5 Years	Education: Bachelor's Degree
Certification: PMP or PgMP Description: Responsible for managing the implementation of projects or programs. Plans, coordinates, and manages the actions taken by an organization to acquire and execute a specific piece of business, either competitively or non-competitively. Integrates all functions and activities necessary to perform the project/program to meet the client or customer requirements. Plans and implements actions by the program/project team to define and implement technical baseline and meet quality requirements for project/program products and services. Directs project/program team personnel, manages cost and schedule, ensures contract compliance, and serves as program interface. Responsibilities include planning, organizing, directing, and tracking all aspects of the project/program, including technology, schedule, cost, contract, and customer satisfaction. Interfaces with task and functional leaders, subcontractors, support personnel, customer, and upper management. Responsible for managing small to moderate risk project/program with responsibility for managing many tasks or functions of a single project/program.	

7.2.23. Program/Project Manager III

Experience: 8 Years	Education: Bachelor's Degree
Certification: PMP or PgMP Description: Responsible for managing the implementation of projects or programs. Plans, coordinates, and manages the actions taken by an organization to acquire and execute a specific piece of business, either competitively or non-competitively. Integrates all functions and activities necessary to perform the project/program to meet the client or customer requirements. Plans and implements actions by the program/project team to define and implement technical baseline and meet quality requirements for project/program products and services. Directs project/program team personnel, manages cost and schedule, ensures contract compliance, and serves as project/program interface. Responsible for planning, organizing, directing, executing, monitoring, and controlling major aspects of the project/program, including technology, schedule, cost, contract, and customer satisfaction. Interfaces with project managers, task and functional leaders, subcontractors, support personnel, and other stakeholders. Responsible for managing a small to moderate risk project/program (composed of either a single project or a coordinated effort of multiple related projects with a common technical or customer objective).	

7.2.24. Senior Program/Project Manager

Experience: 10 Years	Education: Bachelor's Degree
Certification: PMP or PgMP Description: Responsible for managing the implementation of projects or programs. Plans, coordinates, and manages the actions taken by an organization to acquire and execute a specific piece of business, either competitively or non-competitively. Integrates all functions and activities necessary to perform the project/program to meet the client or customer requirements. Plans and implements actions by the program/project team to define and implement technical baseline and meet quality requirements for project/program products and services. Directs project/program team personnel, manages cost and schedule, ensures contract compliance, and serves as project/program interface. Responsible for planning, organizing, directing, executing, monitoring, and controlling all aspects of the project/program, including technology, schedule, cost, contract, and customer satisfaction. Interfaces with project managers, task and functional leaders, subcontractors, support personnel, and other stakeholders. Responsible for managing a moderate to high-risk project/program (composed of either a single project or a coordinated effort of multiple related projects with a common technical or customer objective).	

**7.2.25. Software Developer I**

Experience: 3 Years	Education: Bachelor's Degree
Description: Under general supervision, designs and develops software systems through the implementation of structured techniques and appropriate standards and executes software development life cycle phases of computing systems. Provides design, coding, testing, and validating programs that solve engineering related problems. Works closely with end- users and/or internal project teams to develop detailed technical requirements and specifications for the development of the software element for complex systems. Works closely with other engineers, systems analysts, and system end-users for the development of appropriate system architecture and implementation of system designs. Develops the architecture, detailed system design, coding, testing, integration, and configuration management schemes for software systems.	

7.2.26. Software Developer II

Experience: 5 Years	Education: Bachelor's Degree
Description: Responsible for software engineering tasks, including software implementation, testing, operations, debugging and configuration management; apply principles consistent with industry best practices, Agile Software Development, Agile Methodologies, and Scrum. Expertise with Microsoft SharePoint development and implementation, and knowledge of visualization software such as Microsoft Bing (Virtual Earth), Google Maps, or Google Earth integrated with Autonomy search software.	

7.2.27. Software Developer III

Experience: 8 Years	Education: Bachelor's Degree
Description: Responsible for software engineering tasks, including software implementation, testing, operations, debugging and configuration management; apply principles consistent with industry best practices, Agile Software Development, Agile Methodologies, and Scrum. Expertise with Microsoft SharePoint development and implementation, and knowledge of visualization software such as Microsoft Bing (Virtual Earth), Google Maps, or Google Earth integrated with Autonomy search software.	

7.2.28. Senior Software Developer

Experience: 10 Years	Education: Bachelor's Degree
Certification: C++, ISEE, Or Microsoft Certified Solutions Developer certification	
Description: Responsible for software engineering tasks, including software implementation, testing, operations, debugging and configuration management; apply principles consistent with industry best practices, Agile Software Development, Agile Methodologies, and Scrum. Expertise with Microsoft SharePoint development and implementation, and knowledge of visualization software such as Microsoft Bing (Virtual Earth), Google Maps, or Google Earth integrated with Autonomy search software.	

7.2.29. Database Administrator I

Experience: 3 Years	Education: Bachelor's Degree
Description: Assists with planning and coordinated administration of one or more large, centralized databases. Reviews database design and integration of host systems and makes recommendations for enhancements and improvements. Ensures accurate, appropriated, and effective use of data, including database structure, documentation, and operational guidelines. Performs audits to ensure accuracy and proper use of data in tables, applications, and supporting dictionaries. Has knowledge of commonly used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision and guidance.	

7.2.30. Database Administrator II

Experience: 5 Years	Education: Bachelor's Degree
Description: Assists with planning and coordinated administration of one or more large, centralized databases. Reviews database design and integration of host systems and makes recommendations for enhancements and improvements. Ensures accurate, appropriated, and effective use of data. Performs audits to ensure accuracy and proper use of data. Matches user requirements with system capabilities. Develops and formulates standards, procedures, and conventions for database use. Works with technical/programming staff to ensure database security. Determines file organization, indexing methods, and security procedures for specific user applications. Familiar with standard concepts, practices, and procedures within a particular field. Relies on limited experience and judgment to plan and accomplish goals. Works under general supervision.	

**7.2.31. Database Administrator III**

Experience: 8 Years	Education: Bachelor's Degree
Certification: Microsoft SQL Server Description: Reviews, evaluates, designs, implements, and maintains company database[s]. Identifies data sources, constructs data decomposition diagrams, provides data flow diagrams and documents the process. Writes codes for database access, modifications, and constructions including stored procedures. Develops and formulates standards, procedures, and conventions for database use. Works with technical/programming staff to ensure database security. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complicated tasks. May lead and direct the work of others. Typically reports to a project leader or manager. A wide degree of creativity and latitude is expected.	

7.2.32. Senior Database Administrator

Experience: 10 Years	Education: Bachelor's Degree
Certification: Microsoft SQL Server Description: Reviews, evaluates, designs, implements, and maintains company database[s]. Identifies data sources, constructs data decomposition diagrams, provides data flow diagrams and documents the process. Writes codes for database access, modifications, and constructions including stored procedures. Develops and formulates standards, procedures, and conventions for database use. Works with technical/programming staff to ensure database security. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complicated tasks. May lead and direct the work of others. Typically reports to a project leader or manager. A wide degree of creativity and latitude is expected.	

7.2.33. System Architect I

Experience: 3 Years	Education: Bachelor's Degree
Description: Assists with designing IT architecture for an organization on an enterprise level. Helps defines IT system and application architecture and provides vision, problem anticipation, and problem-solving ability to organization. Demonstrates expertise in a variety of the field's concepts, practices, and procedures. Has knowledge of commonly used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision and guidance.	

7.2.34. System Architect II

Experience: 5 Years	Education: Bachelor's Degree
Description: Assists with designing IT architecture for an organization on an enterprise level. Helps defines system and application architecture and provides vision, problem anticipation, and problem-solving ability to organization. Demonstrates expertise in a variety of the field's concepts, practices, and procedures. Familiar with standard concepts, practices, and procedures within a particular field. Relies on limited experience and judgment to plan and accomplish goals. Works under general supervision.	

7.2.35. System Architect III

Experience: 8 Years	Education: Bachelor's Degree
Certification: Microsoft Certified Solutions Architect or equivalent Description: Responsible for designing IT architecture for an organization on an enterprise level. Defines system and application architecture and provides vision, problem anticipation, and problem-solving ability to organization. Demonstrates expertise in a variety of the field's concepts, practices, and procedures. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complicated tasks. May lead and direct the work of others. Typically reports to a project leader or manager. A wide degree of creativity and latitude is expected.	

**7.2.36. System Architect IV**

Experience: 10 Years	Education: Bachelor's Degree
Certification: Microsoft Certified Solutions Architect or equivalent Description: Responsible for designing IT architecture for an organization on an enterprise level. Defines system and application architecture and provides vision, problem anticipation, and problem-solving ability to organization. Demonstrates expertise in a variety of the field's concepts, practices, and procedures. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complicated tasks. May lead and direct the work of others. Typically reports to a project leader or manager. A wide degree of creativity and latitude is expected.	

7.2.37. Software Engineer I

Experience: 3 Years	Education: Bachelor's Degree
Description: Assists in design and coding of software product components, units, and modules according to detailed specifications. Participates in analysis and development of test plans. Tests assigned components and units. Provides test results and recommends corrections to senior developers. Requires practical knowledge of one or more platforms and operating systems, and of programming languages. Typically requires knowledge of one or more systems architectures. Has knowledge of commonly used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision and guidance.	

7.2.38. Software Engineer II

Experience: 5 Years	Education: Bachelor's Degree
Description: Assist in the design and coding of software products. Prepares comprehensive test plans. Conducts tests. Identifies and debugs relatively simple problems. Provides test results and recommends more complex corrections to senior developers. Codes enhancements and supports features. Participates in writing product and user documentation. Requires extensive knowledge of one or more platforms and operating systems, and of programming languages. Typically requires knowledge of one or more systems architectures. Familiar with standard concepts, practices, and procedures within a particular field. Relies on limited experience and judgment to plan and accomplish goals. Works under general supervision.	

7.2.39. Software Engineer III

Experience: 8 Years	Education: Bachelor's Degree
Certification: C++, ISEEE, Or Microsoft Certified Solutions Developer certification Description: Designs and codes software components, units, and modules that meet product specification and development schedules. Tests and debugs assigned components and units. Participates in large system and subsystem planning. Adheres to product build and release schedules and strategies. Acts as a technical resource for lower-level developers. Requires comprehensive knowledge of one or more platforms and operating systems, and of programming languages. Typically requires knowledge of one or more systems architectures. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complicated tasks. A wide degree of creativity and latitude is expected. Works under general supervision. Typically reports to a manager or head of a unit/department	

7.2.40. Senior Software Engineer

Experience: 10 Years	Education: Bachelor's Degree
Certification: C++, ISEEE, Or Microsoft Certified Solutions Developer certification Description: Develops technical designs and specifications for software products. Researched and integrated design strategies, product specifications, development schedules, and user expectations into product capabilities. Uses software development technologies and tools to build, test, and maintain product modules, components, and subsystems. Provides technical leadership to lower-level developers. May provide product demonstrations and participate in trade shows and seminars. May require interaction with customers, vendors and external development partners. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complicated tasks. A wide degree of creativity and latitude is expected. Typically reports to a manager or head of a unit/department.	

**7.2.41. Web Designer/Developer I**

Experience: 3 Years	Education: Bachelor's Degree
Description: Assists with website design and creation. Helps plan, design, develop, test, edit, maintain, and document look and flow of websites. Interviews clients to help them clarify their goals for establishing a website. Designs or supervises design of digitized images, banners, bullets, charts, image maps and other graphics to enhance appearance of site. May require knowledge of programming techniques and computer internet systems. Has knowledge of commonly used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision and guidance.	

7.2.42. Web Designer/Developer II

Experience: 5 Years	Education: Bachelor's Degree
Description: Assists with website design and creation. Helps plan, design, develop, test, edit, maintain, and document look and flow of websites. Interviews clients to help them clarify their goals for establishing a website. Designs or supervises design of digitized images, banners, bullets, charts, image maps and other graphics to enhance appearance of site. May require knowledge of programming techniques and computer internet systems. Familiar with standard concepts, practices, and procedures within a particular field. Relies on limited experience and judgment to plan and accomplish goals. Works under general supervision.	

7.2.43. Web Designer/Developer III

Experience: 8 Years	Education: Bachelor's Degree
Certification: Adobe Certified Expert (ACE), Certified Web Development Professional, Microsoft MCSD, Microsoft MTA, or equivalent Description: Performs website design and creation. Plans, designs, develops, tests, edits, maintains, and documents look and flow of websites. Interviews clients to help them clarify their goals for establishing a website. Designs or supervises design of digitized images, banners, bullets, charts, image maps and other graphics to enhance appearance of site. Requires knowledge of programming techniques and computer internet systems. Performs a variety of tasks. Works under general supervision; typically reports to a project leader or manager. A certain degree of creativity and latitude is required. Familiar with standard concepts, practices, and procedures within a particular field. May lead or direct others.	

7.2.44. Senior Web Designer/Developer

Experience: 10 Years	Education: Bachelor's Degree
Certification: Adobe Certified Expert (ACE), Certified Web Development Professional, Microsoft MCSD, Microsoft MTA, or equivalent Description: Performs website design and creation. Plans, designs, develops, tests, edits, maintains, and documents look and flow of websites. Interviews clients to help them clarify their goals for establishing a website. Designs or supervises design of digitized images, banners, bullets, charts, image maps and other graphics to enhance appearance of site. Requires knowledge of programming techniques and computer internet systems. Performs a variety of tasks. Works under general supervision; typically reports to a project leader or manager. A certain degree of creativity and latitude is required. Familiar with standard concepts, practices, and procedures within a particular field. May lead or direct others.	

7.2.45. Web Programmer I

Experience: 3 Years	Education: Bachelor's Degree
Description: Assists with planning, designing, developing, testing, editing, maintaining, and documenting web programs. Applies knowledge of programming techniques and computer internet systems. Formulates plans outlining steps required to develop program, using structured analysis and design. Has knowledge of commonly used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision and guidance.	

**7.2.46. Web Programmer II**

Experience: 5 Years	Education: Bachelor's Degree
Certifications: Adobe Certified Expert (ACE), Certified Web Development Professional, Microsoft MCSD, Microsoft MTA, or equivalent Description: Assists with planning, designing, developing, testing, editing, maintaining, and documenting web programs. Applies knowledge of programming techniques and computer internet systems. Formulates plans outlining steps required to develop program, using structured analysis and design. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complicated tasks. Typically reports to a project leader or manager. A wide degree of creativity and latitude is expected.	

7.2.47. Web Programmer III

Experience: 8 Years	Education: Bachelor's Degree
Certifications: Adobe Certified Expert (ACE), Certified Web Development Professional, Microsoft MCSD, Microsoft MTA, or equivalent Description: Plans, designs, development, tests, edits, maintains, and documents web programs. Applies knowledge of programming techniques and computer internet systems. Formulates plan outlining steps required to develop program, using structured analysis and design. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complicated tasks. May lead and direct the work of others. Typically reports to a project leader or manager. A wide degree of creativity and latitude is expected.	

7.2.48. Senior Web Programmer

Experience: 10 Years	Education: Bachelor's Degree
Certifications: Adobe Certified Expert (ACE), Certified Web Development Professional, Microsoft MCSD, Microsoft MTA, or equivalent Description: Plans, designs, development, tests, edits, maintains, and documents web programs. Applies knowledge of programming techniques and computer internet systems. Formulates plan outlining steps required to develop program, using structured analysis and design. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complicated tasks. May lead and direct the work of others. Typically reports to a project leader or manager. A wide degree of creativity and latitude is expected.	

7.2.49. System Engineer I

Experience: 3 Years	Education: Bachelor's Degree
Description: Possesses and applies expertise on multiple complex work assignments. Assignments may be broad in nature, requiring originality and innovation in determining how to accomplish tasks. Operates with appreciable latitude in developing methodology and presenting solutions to problems. Contributes to deliverables and performance metrics where applicable. Provides analysis related to the design, development, and integration of hardware, software, man-machine interfaces, and all system level requirements to provide an integrated IT solution. Develops integrated system test requirement, strategies, devices, and systems. Directs overall system level testing	

7.2.50. System Engineer II

Experience: 5 Years	Education: Bachelor's Degree
Description: Possesses and applies expertise on multiple complex work assignments. Assignments may be broad in nature, requiring originality and innovation in determining how to accomplish tasks. Operates with appreciable latitude in developing methodology and presenting solutions to problems. Contributes to deliverables and performance metrics where applicable. Provides analysis related to the design, development, and integration of hardware, software, man-machine interfaces, and all system level requirements to provide an integrated IT solution. Develops integrated system test requirement, strategies, devices, and systems. Directs overall system level testing.	

**7.2.51. System Engineer III**

Experience: 8 Years	Education: Bachelor's Degree
Certification: Microsoft Certified System Engineer or INCOSE ASEP Description: Possesses and applies expertise on multiple complex work assignments. Assignments may be broad in nature, requiring originality and innovation in determining how to accomplish tasks. Operates with appreciable latitude in developing methodology and presenting solutions to problems. Contributes to deliverables and performance metrics where applicable. Provides analysis related to the design, development, and integration of hardware, software, man-machine interfaces, and all system level requirements to provide an integrated IT solution. Develops integrated system test requirement, strategies, devices, and systems. Directs overall system level testing.	

7.2.52. Senior System Engineer

Experience: 10 Years	Education: Bachelor's Degree
Certification: Microsoft Certified System Engineer or INCOSE ASEP Description: Possesses and applies expertise on multiple complex work assignments. Assignments may be broad in nature, requiring originality and innovation in determining how to accomplish tasks. Operates with appreciable latitude in developing methodology and presenting solutions to problems. Contributes to deliverables and performance metrics where applicable. Provides analysis related to the design, development, and integration of hardware, software, man-machine interfaces, and all system level requirements to provide an integrated IT solution. Develops integrated system test requirement, strategies, devices, and systems. Directs overall system level testing.	

7.2.53. Network Engineer I

Experience: 3 Years	Education: Bachelor's Degree
Certification: CompTIA A+, Microsoft Certified Solutions Associate or Solutions Expert or equivalent Description: Resolves complex network problems. Addresses network security issues. Interfaces with all client levels. Presents recommendations on network interfaces and configurations. Participates in and may lead aspects of major network installations and upgrades. Works with vendors and network analysts as appropriate to resolve unusually complex network problems. Provides guidance to less experienced network administrators. Performs complex assignments with little guidance.	

7.2.54. Network Engineer II

Experience: 5 Years	Education: Bachelor's Degree
Certification: CompTIA A+, Microsoft Certified Solutions Associate or Solutions Expert or equivalent Description: Resolves complex network problems. Addresses network security issues. Interfaces with all client levels. Presents recommendations on network interfaces and configurations. Participates in and may lead aspects of major network installations and upgrades. Works with vendors and network analysts as appropriate to resolve unusually complex network problems. Provides guidance to less experienced network administrators. Performs complex assignments with little guidance.	

7.2.55. Network Engineer III

Experience: 8 Years	Education: Bachelor's Degree
Certification: CompTIA A+, Microsoft Certified Solutions Associate or Solutions Expert or equivalent Description: Resolves complex network problems. Addresses network security issues. Interfaces with all client levels. Presents recommendations on network interfaces and configurations. Participates in and may lead aspects of major network installations and upgrades. Works with vendors and network analysts as appropriate to resolve unusually complex network problems. Provides guidance to less experienced network administrators. Performs complex assignments with little guidance.	

**7.2.56. Senior Network Engineer**

Experience: 10 Years	Education: Bachelor's Degree
Certification: CompTIA A+, Microsoft Certified Solutions Associate or Solutions Expert or equivalent Description: Resolves complex network problems. Addresses network security issues. Interfaces with all client levels. Presents recommendations on network interfaces and configurations. Participates in and may lead aspects of major network installations and upgrades. Works with vendors and network analysts as appropriate to resolve unusually complex network problems. Provides guidance to less experienced network administrators. Performs complex assignments with little guidance.	

7.2.57. Network Architect I

Experience: 3 Years	Education: Bachelor's Degree
Certification: CompTIA A+ Description: Provides technical and administrative direction for personnel responsible for network design, implementation, and operations tasks, including the review of work products for correctness, adherence to the design concept, and to user standards and progress in accordance with schedules. Makes recommendations, if needed, for approval of major network installations. Prepares milestone status reports and deliveries/presentations on network progress to colleagues, subordinates, and end-user representatives. Provides daily supervision and direction to support staff for the analysis and design of voice networks, LAN and WAN data networks, wireless networks, and/or network management systems to support voice and data services. Provides technical analysis engineering and direction of RF (radio frequency) information system development and testing. Defines requirements, technical guidance and direction, system testing, and appraising and presenting solutions.	

7.2.58. Network Architect II

Experience: 5 Years	Education: Bachelor's Degree
Certification: CompTIA Network+ or Microsoft Certified Solutions Architect Description: Provides technical and administrative direction for personnel responsible for network design, implementation, and operations tasks, including the review of work products for correctness, adherence to the design concept, and to user standards and progress in accordance with schedules. Makes recommendations, if needed, for approval of major network installations. Prepares milestone status reports and deliveries/presentations on network progress to colleagues, subordinates, and end-user representatives. Provides daily supervision and direction to support staff for the analysis and design of voice networks, LAN and WAN data networks, wireless networks, and/or network management systems to support voice and data services. Provides technical analysis engineering and direction of RF (radio frequency) information system development and testing. Defines requirements, technical guidance and direction, system testing, and appraising and presenting solutions.	

7.2.59. Network Architect III

Experience: 8 Years	Education: Bachelor's Degree
Certification: CompTIA Network+ or Microsoft Certified Solutions Architect or equivalent Description: Provides technical and administrative direction for personnel responsible for network design, implementation, and operations tasks, including the review of work products for correctness, adherence to the design concept, and to user standards and progress in accordance with schedules. Makes recommendations, if needed, for approval of major network installations. Prepares milestone status reports and deliveries/presentations on network progress to colleagues, subordinates, and end-user representatives. Provides daily supervision and direction to support staff for the analysis and design of voice networks, LAN and WAN data networks, wireless networks, and/or network management systems to support voice and data services. Provides technical analysis engineering and direction of RF (radio frequency) information system development and testing. Defines requirements, technical guidance and direction, system testing, and appraising and presenting solutions.	

**7.2.60. Senior Network Architect**

Experience: 10 Years	Education: Bachelor's Degree
Certification: Com CompTIA Network+, ITIL Master, RHCA, Microsoft Certified Solutions Architect, or equivalent Description: Provides technical and administrative direction for personnel responsible for network design, implementation, and operations tasks, including the review of work products for correctness, adherence to the design concept, and to user standards and progress in accordance with schedules. Makes recommendations, if needed, for approval of major network installations. Prepares milestone status reports and deliveries/presentations on network progress to colleagues, subordinates, and end-user representatives. Provides daily supervision and direction to support staff for the analysis and design of voice networks, LAN and WAN data networks, wireless networks, and/or network management systems to support voice and data services. Provides technical analysis engineering and direction of RF (radio frequency) information system development and testing. Defines requirements, technical guidance and direction, system testing, and appraising and presenting solutions	

7.2.61. Trainer I

Experience: 3 Years	Education: Bachelor's Degree
Description: Functional Responsibilities: Responsibilities include performing various tasks in the development of training materials, tailoring of training classes and the delivery of off-the-shelf and customized training classes. Conducts research necessary to develop and revise training courses. Develops all instructor and student materials to include course outline, background material, and training aids, course manuals, workbooks, handouts, completion certificates, and course critique forms. Provides support to senior trainers. Identifies critical training and educational topics, develops, and manages timely responses to all identified training needs, ensures a high standard of training and facilitation and maintains accurate records of training and certification.	

7.2.62. Trainer II

Experience: 5 Years	Education: Bachelor's Degree
Description: Functional Responsibilities: Responsibilities include performing various tasks in the development of training materials, tailoring of training classes and the delivery of off-the-shelf and customized training classes. Conducts research necessary to develop and revise training courses. Develops all instructor and student materials to include course outline, background material, and training aids, course manuals, workbooks, handouts, completion certificates, and course critique forms. Provides support to senior trainers. Identifies critical training and educational topics, develops, and manages timely responses to all identified training needs, ensures a high standard of training and facilitation and maintains accurate records of training and certification.	

7.2.63. Trainer III

Experience: 8 Years	Education: Bachelor's Degree
Description: Functional Responsibilities: Responsibilities include performing various tasks in the development of training materials, tailoring of training classes and the delivery of off-the-shelf and customized training classes. Conducts research necessary to develop and revise training courses. Develops all instructor and student materials to include course outline, background material, and training aids, course manuals, workbooks, handouts, completion certificates, and course critique forms. Provides support to senior trainers. Identifies critical training and educational topics, develops, and manages timely responses to all identified training needs, ensures a high standard of training and facilitation and maintains accurate records of training and certification.	

**7.2.64. Senior Trainer**

Experience: 10 Years	Education: Bachelor's Degree
Description: Directs and oversees training in specialized content areas offered in formal and non-formal educational settings, including concepts and definitions of curriculum and instruction. Leads instructional development process, focusing on design issues, clarification of learning tasks, selection of instructional strategies and tactics, and construction of prototype materials. Demonstrated experience and ability to develop, plan, and provide training materials and end user training on a wide variety of subjects. Conducts the research necessary to develop and revise training courses and prepares appropriate training catalogs. May serve in advisory role, consulting with upper management to assist in development and oversight of appropriate training policy and	

7.2.65. Junior Information Technology Forensics Media Examiner

Experience: 3 Years	Education: Bachelor's Degree or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Demonstrate an understanding of the technical fundamentals and core forensic principles required to perform all the aforementioned tasks with competency and accuracy. Demonstrate fluency in at least one, but preferably multiple, core commercial forensic imaging tools such as: DD (or DC3dd), FTK Imager, EnCase Imager, AXIOM Acquire, Imaging for Operations (IO). Demonstrate fluency in at least one, but preferably multiple, core commercial forensic analysis platform such as: EnCase (opentext), X-Ways Forensics (X-Ways Software Technology AG), Forensic Toolkit [FTK] (ACCESSDATA), MAGNET Axiom (Magnet Forensics). Possess at least one active industry or DoD standard forensic certification (i.e., EnCE, ACE, CCE, GIAC, CFCE, DC3/DCITA Certified Digital Forensic Examiner). Possess experience conveying highly technical information effectively and concisely to a wide range of audiences via both briefings and technical reports. Possess the ability to thrive in a mission-critical and time-sensitive environment.	

7.2.66. MID Information Technology Forensics Media Examiner

Experience: 5 Years	Education: Bachelor's Degree or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Demonstrate an understanding of the technical fundamentals and core forensic principles required to perform all the aforementioned tasks with competency and accuracy. Demonstrate fluency in at least one, but preferably multiple, core commercial forensic imaging tools such as: DD (or DC3dd), FTK Imager, EnCase Imager, AXIOM Acquire, Imaging for Operations (IO). Demonstrate fluency in at least one, but preferably multiple, core commercial forensic analysis platform such as: EnCase (opentext), X-Ways Forensics (X-Ways Software Technology AG), Forensic Toolkit [FTK] (ACCESSDATA), MAGNET Axiom (Magnet Forensics). Possess at least one active industry or DoD standard forensic certification (i.e., EnCE, ACE, CCE, GIAC, CFCE, DC3/DCITA Certified Digital Forensic Examiner). Possess experience conveying highly technical information effectively and concisely to a wide range of audiences via both briefings and technical reports. Possess the ability to thrive in a mission-critical and time-sensitive environment.	

**7.2.67. Senior Information Technology Forensics Media Examiner**

Experience: 8 Years	Education: Bachelor's Degree or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Demonstrate an understanding of the technical fundamentals and core forensic principles required to perform all the aforementioned tasks with competency and accuracy. Demonstrate fluency in at least one, but preferably multiple, core commercial forensic imaging tools such as: DD (or DC3dd), FTK Imager, EnCase Imager, AXIOM Acquire, Imaging for Operations (IO). Demonstrate fluency in at least one, but preferably multiple, core commercial forensic analysis platform such as: EnCase (opentext), X-Ways Forensics (X-Ways Software Technology AG), Forensic Toolkit [FTK] (ACCESSDATA), MAGNET Axiom (Magnet Forensics). Possess at least one active industry or DoD standard forensic certification (i.e., EnCE, ACE, CCE, GIAC, CFCE, DC3/DCITA Certified Digital Forensic Examiner). Possess experience conveying highly technical information effectively and concisely to a wide range of audiences via both briefings and technical reports. Possess the ability to thrive in a mission-critical and time-sensitive environment.	

7.2.68. Junior Forensic Software Developer \ Reverse Engineer

Experience: 3 Years	Education: Bachelor's Degree or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Demonstrate an understanding of the technical fundamentals and core software development principles required to perform all the aforementioned tasks with competency and accuracy. Demonstrate fluency in both high- and low-level programming languages, to include specifically C# and Python. Demonstrate proficiency with debuggers. Demonstrate fluency with a Hex editor. Possess the ability to gather testable software requirements and to participate in the design of new applications. Execute with maintainable software processes, including software documentation, source code versioning, and unit testing. Be able to quickly adapt to new situations and problems. Be familiar with assembly languages. Possess the aptitude for reverse engineering windows and mobile binaries. Possess the ability to thrive in a mission-critical and time-sensitive environment. Ideally candidates are also familiar with the Windows API and with IDA pro	

7.2.69. MID Forensic Software Developer \ Reverse Engineer

Experience: 5 Years	Education: Bachelor's Degree or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Demonstrate an understanding of the technical fundamentals and core software development principles required to perform all of the aforementioned tasks with competency and accuracy. Demonstrate fluency in both high- and low-level programming languages, to include specifically C# and Python. Demonstrate proficiency with debuggers. Demonstrate fluency with a Hex editor. Possess the ability to gather testable software requirements and to participate in the design of new applications. Execute with maintainable software processes, including software documentation, source code versioning, and unit testing. Be able to quickly adapt to new situations and problems. Be familiar with assembly languages. Possess the aptitude for reverse engineering windows and mobile binaries. Possess the ability to thrive in a mission-critical and time-sensitive environment. Ideally candidates are also familiar with the Windows API and with IDA pro.	

**7.2.70. Senior Forensic Software Developer \ Reverse Engineer**

Experience: 10 Years	Education: Bachelor's Degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Demonstrate an understanding of the technical fundamentals and core software development principles required to perform all of the aforementioned tasks with competency and accuracy. Demonstrate fluency in both high- and low-level programming languages, to include specifically C# and Python. Demonstrate proficiency with debuggers. Demonstrate fluency with a Hex editor. Possess the ability to gather testable software requirements and to participate in the design of new applications. Execute with maintainable software processes, including software documentation, source code versioning, and unit testing. Be able to quickly adapt to new situations and problems. Be familiar with assembly languages. Possess the aptitude for reverse engineering windows and mobile binaries. Possess the ability to thrive in a mission-critical and time-sensitive environment. Ideally candidates are also familiar with the Windows API and with IDA pro.	

7.2.71. Information Technology Computer Forensics Engineer

Experience: 7 Years	Education: Bachelor's Degree or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform all engineering-related tasks of new and existing assignments, meeting project requirements and producing high quality and client-ready work products. Provide engineering services on new and existing assignments as part of a multi-disciplinary team; tasks to include preparing work papers and drafting client deliverables, while working within established time frames and budget. Engage in engineering investigations and studies: Conduct site visits to monitor work in progress; audit payment requisitions for completed contract work; perform quality assurance and quality control audits for inspections; review change orders for contract compliance, accuracy, and completeness; inappropriate material submission or substitution; procurement reviews; prevailing wage interviews. Interact with clients, client representatives and personnel from construction management firms/general contractors. Conduct interviews to support investigation activities.	

7.2.72. Information Technology Workflow Coordinator / Data Manager

Experience: 3 Years	Education: Bachelor's Degree or higher relevant degree
Certification: None Description: Manage priorities and assignments for the team, ensuring appropriate work distribution and reporting, and performing regular metrics reporting. Three years of experience in intelligence analysis Nine plus years of professional experience. Capable of managing priorities and task assignments. Experience with report writing and report editing	

7.2.73. Information Technology Mobile Computer Forensic Analyst

Experience: 8 Years	Education: Bachelor's Degree or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform full-scope forensic examinations which include: Demonstrated experience in the field of digital media forensics, Demonstrated experience in mobile device data extraction and analysis, Understanding of computer file systems, In-depth experience with file system forensics, In-depth experience with registry analysis, In-depth experience with Internet history analysis, Understanding of steganography and encryption detection and analysis, Understanding of managing complex large data set analysis, In-depth experience with timeline analysis, Experience with forensic media imaging, In-depth experience with email analysis, In-depth experience with signature and hash analysis, Demonstrated experience with forensics tools such as EnCase, Forensic Toolkit, and X-ways, Strong documentation and written communication skills with technical report writing experience.	

**7.2.74. Senior Information Technology Digital Forensic Analyst**

Experience: 12 Years	Education: Bachelor's Degree or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform full-scope forensic examinations which include: Demonstrated experience in the field of digital media forensics, Demonstrated experience in mobile device data extraction and analysis, Understanding of computer file systems, In-depth experience with file system forensics, In-depth experience with registry analysis, In-depth experience with Internet history analysis, Understanding of steganography and encryption detection and analysis, Understanding of managing complex large data set analysis, In-depth experience with timeline analysis, Experience with forensic media imaging, In-depth experience with email analysis, In-depth experience with signature and hash analysis, Demonstrated experience with forensics tools such as EnCase, Forensic Toolkit, and X-ways, Strong documentation and written communication skills with technical report writing experience	

7.2.75. Operations Research Analyst I

Experience: 2 Years	Education: Bachelors or higher in relevant degree
Description: Conducts quantitative analysis using operations research tools, economics, and other quantitative techniques in the areas of procedural implementation, business implications, or performance assessments. Creates analysis procedures and conducts analysis and evaluation. Assists in the definition of data analysis strategies. Creates, deploys, maintains, and refines decision models. Specialist in modeling and simulation functions or operations such as but not limited to planning, coordination, demonstration, and instruction. Conducts research, evaluations, analyses, and studies and presents recommendations/solutions related to short and long-term program planning requirements. Establishes study methods and techniques and analyzes the effectiveness of complex program operations. Applies fundamental concepts, processes, practices, and procedures to assignments and works with others in more senior positions. Performs work under supervision.	

7.2.76. Operations Research Analyst II

Experience: 6 Years	Education: Bachelors or higher in relevant degree
Description: Conducts quantitative analysis using operations research tools, economics, and other quantitative techniques in the areas of procedural implementation, business implications, or performance assessments. Creates analysis procedures and conducts analysis and evaluation. Assists in the definition of data analysis strategies. Creates, deploys, maintains, and refines decision models. Specialist in modeling and simulation functions or operations such as but not limited to planning, coordination, demonstration, and instruction. Conducts research, evaluations, analyses, and studies and presents recommendations/solutions related to short and long-term program planning requirements. Establishes study methods and techniques and analyzes the effectiveness of complex program operations. Assignments may be broad in nature, requiring originality and innovation in determining how to accomplish tasks. Generally, performs work independently and applies expertise to multiple, complex work assignments.	

7.2.77. Operations Research Analyst III

Experience: 11 Years	Education: Bachelors or higher in relevant degree
Description: Conducts quantitative analysis using operations research tools, economics, and other quantitative techniques in the areas of procedural implementation, business implications, or performance assessments. Creates analysis procedures and conducts analysis and evaluation. Assists in the definition of data analysis strategies. Creates, deploys, maintains, and refines decision models. Specialist in modeling and simulation functions or operations such as but not limited to planning, coordination, demonstration, and instruction. Conducts research, evaluations, analyses, and studies and presents recommendations/solutions related to short and long-term program planning requirements. Establishes study methods and techniques and analyzes the effectiveness of complex program operations. Assignments may be broad in nature, requiring originality and innovation in determining how to accomplish tasks. Work is generally independent and collaborative in nature and applies expertise to multiple, complex work assignments.	

**7.2.78. Operations Research Analyst IV**

Experience: 15 Years	Education: Bachelors or higher in relevant degree
Description: Conducts quantitative analysis using operations research tools, economics, and other quantitative techniques in the areas of procedural implementation, business implications, or performance assessments. Creates analysis procedures and conducts analysis and evaluation. Assists in the definition of data analysis strategies. Creates, deploys, maintains, and refines decision models. Specialist in modeling and simulation functions or operations such as but not limited to planning, coordination, demonstration, and instruction. Conducts research, evaluations, analyses, and studies and presents recommendations/solutions related to short and long-term program planning requirements. Establishes study methods and techniques and analyzes the effectiveness of complex program operations. May work on high visibility projects with assignments being broad in nature, requiring originality and innovation in determining how to accomplish tasks. Work is independent and collaborative in nature. May oversee work assignments of less senior staff.	

7.2.79. Operations Research Analyst V

Experience: 20 Years	Education: Bachelors or higher in relevant degree
Description: Conducts quantitative analysis using operations research tools, economics, and other quantitative techniques in the areas of procedural implementation, business implications, or performance assessments. Creates analysis procedures and conducts analysis and evaluation. Assists in the definition of data analysis strategies. Creates, deploys, maintains, and refines decision models. Specialist in modeling and simulation functions or operations such as but not limited to planning, coordination, demonstration, and instruction. Conducts research, evaluations, analyses, and studies and presents recommendations/solutions related to short and long-term program planning requirements. Establishes study methods and techniques and analyzes the effectiveness of complex program operations. May work on high visibility projects with assignments being broad in nature, requiring originality and innovation in determining how to accomplish tasks. Work is independent and collaborative in nature. May oversee work assignments of less senior staff.	

7.2.80. Artificial Intelligence Engineer

Experience: 3 Years	Education: Bachelors or higher in relevant degree
Description: Develop operating software that can be used for robots, artificial intelligence programs or other artificial intelligence applications. Work closely with electrical engineers or robotics engineers and others in order to produce systems that utilize artificial intelligence. Capability to adapt or change operating environments based on adding data. Programming systems to look for or seek out specific conditions and respond based on those factors. Clarify their objectives to others in their team and may be responsible for supervising other programmers as part of their duties.	

7.2.81. Machine Learning Engineer

Experience: 5 Years	Education: Bachelors or higher in relevant degree
Description: The Machine Learning Engineer will build data pipelines. Transform and convert data streams into structures needed for algorithm input. Work with large datasets, both structured and unstructured; Perform Big Data analytics leveraging the Hadoop ecosystem (Apache Hive, Pig, HBase and Kafka) and distributed computing platforms such as Spark; Develop software using Python and or Julia, including packages such as NumPy and pandas. Design, build, and train custom models using deep learning libraries and frameworks such as TensorFlow, Microsoft Cognitive Toolkit, Caffe, Keras and or PyTorch. Follow Agile processes with a focus on delivering production-ready testable code in small iterations; and develop in object-oriented programming languages to include Java and or C++.	



8.0. Terms and Conditions related to SIN 541990L Professional Law Enforcement Services

541990L Includes professional law enforcement services, such as fingerprinting, handwriting analysis, ballistic analysis, forensic artist, etc.

8.1. Law Enforcement Services (541990L) Labor Categories

8.1.1. Analyst I

Experience: 3 Years	Education: Bachelor's or higher relevant degree
Description: Provides intelligence and Law enforcement support for fingerprinting, handwriting analysis, ballistic analysis, forensic artist, etc. contingency operations, battle staff, and operational-level planning, joint and multi-lateral training exercises, and strategic engagement policy throughout the Areas of Operational Responsibility (AOR) and Areas of Interest (AOI) to include analysis and research for industry, infrastructure, technology, country, geographic area, and biographic and targeted vulnerability. Monitors and analyzes all strategic and operational aspects of political, military, and economic developments for the countries in the AORs and AOIs. Assesses future and on-going political-military developments, military capabilities and doctrine, weapons acquisitions, and employment of military forces within each country (including the U.S.). Research, authors, and coordinates threat assessments to support the Commander and the senior leadership as well. May focus on domestic as well as international threats. Considered to be a recognized authority in this area of expertise. Intelligence analysis may include IMINT, SIGINT, ELINT, HUMINT, or MASINT. Develops and maintains analytical procedures to meet changing requirements and ensure maximum operations. May support development and analysis of intelligence products. Presents analysis or products to customers. May support policy and procedures development for agency, interagency, or community wide support.	

8.1.2. Analyst II

Experience: 5 Years	Education: Bachelor's or higher relevant degree
Description: Provides intelligence and Law enforcement support for fingerprinting, handwriting analysis, ballistic analysis, forensic artist, etc. contingency operations, battle staff, and operational-level planning, joint and multi-lateral training exercises, and strategic engagement policy throughout the Areas of Operational Responsibility (AOR) and Areas of Interest (AOI) to include analysis and research for industry, infrastructure, technology, country, geographic area, and biographic and targeted vulnerability. Monitors and analyzes all strategic and operational aspects of political, military, and economic developments for the countries in the AORs and AOIs. Assesses future and on-going political-military developments, military capabilities and doctrine, weapons acquisitions, and employment of military forces within each country (including the U.S.). Research, authors, and coordinates threat assessments to support the Commander and the senior leadership as well. May focus on domestic as well as international threats. Considered to be a recognized authority in this area of expertise. Intelligence analysis may include IMINT, SIGINT, ELINT, HUMINT, or MASINT. Develops and maintains analytical procedures to meet changing requirements and ensure maximum operations. May support development and analysis of intelligence products. Presents analysis or products to customers. May support policy and procedures development for agency, interagency, or community wide support. Receives assignments in the form of objectives with goals and processes to meet goals. Work is reviewed by management to measure meeting objectives	

**8.1.3. Analyst III**

Experience: 8 Years	Education: Bachelor's or higher relevant degree
Description: Provides intelligence and Law enforcement support for fingerprinting, handwriting analysis, ballistic analysis, forensic artist, etc. contingency operations, battle staff, and operational-level planning, joint and multi-lateral training exercises, and strategic engagement policy throughout the Areas of Operational Responsibility (AOR) and Areas of Interest (AOI) to include analysis and research for industry, infrastructure, technology, country, geographic area, and biographic and targeted vulnerability. Monitors and analyzes all strategic and operational aspects of political, military, and economic developments for the countries in the AORs and AOIs. Assesses future and on-going political-military developments, military capabilities and doctrine, weapons acquisitions, and employment of military forces within each country (including the U.S.). Research, authors, and coordinates threat assessments to support the Commander and the senior leadership as well. May focus on domestic as well as international threats. Considered to be a recognized authority in this area of expertise. Intelligence analysis may include IMINT, SIGINT, ELINT, HUMINT, or MASINT. Develops and maintains analytical procedures to meet changing requirements and ensure maximum operations. May support development and analysis of intelligence products. Presents analysis or products to customers. May support policy and procedures development for agency, interagency, or community wide support. Receives assignments in the form of objectives with goals and processes to meet goals. Work is reviewed by management to measure meeting objectives	

8.1.4. Senior Analyst

Experience: 10 Years	Education: Bachelor's or higher relevant degree
Description: Provides intelligence and Law enforcement support for fingerprinting, handwriting analysis, ballistic analysis, forensic artist, etc. contingency operations, battle staff, and operational-level planning, joint and multi-lateral training exercises, and strategic engagement policy throughout the Areas of Operational Responsibility (AOR) and Areas of Interest (AOI) to include analysis and research for industry, infrastructure, technology, country, geographic area, and biographic and targeted vulnerability. Monitors and analyzes all strategic and operational aspects of political, military, and economic developments for the countries in the AORs and AOIs. Assesses future and on-going political-military developments, military capabilities and doctrine, weapons acquisitions, and employment of military forces within each country (including the U.S.). Research, authors, and coordinates threat assessments to support the Commander and the senior leadership as well. May focus on domestic as well as international threats. Considered to be a recognized authority in this area of expertise. Intelligence analysis may include IMINT, SIGINT, ELINT, HUMINT, or MASINT. Develops and maintains analytical procedures to meet changing requirements and ensure maximum operations. May support development and analysis of intelligence products. Presents analysis or products to customers. May support policy and procedures development for agency, interagency, or community wide support. Receives assignments in the form of objectives with goals and processes to meet goals. Work is reviewed by management to measure meeting objectives. Administers client policies that directly affect subordinate employees. Recommends changes to policies	

8.1.5. Open-Source Intelligence Analyst I (OSINT)

Experience: 3 Years	Education: Bachelor's or higher relevant degree
Description: Apply analytical techniques. Gather and analyze data to solve complex problems and/or produce finished reports, e.g., operations research, modeling, threat analysis, logistics procurement, and risk. assessment.	

8.1.6. Open-Source Intelligence Analyst II (OSINT)

Experience: 5 Years	Education: Bachelor's or higher relevant degree
Description: Apply analytical techniques. Gather and analyze data to solve complex problems and/or produce finished reports, e.g., operations research, modeling, threat analysis, logistics procurement, and risk. assessment.	

**8.1.7. Open-Source Intelligence Analyst III (OSINT)**

Experience: 8 Years	Education: Bachelor's or higher relevant degree
Description: Apply analytical techniques. Gather and analyze data to solve complex problems and/or produce finished reports, e.g., operations research, modeling, threat analysis, logistics procurement, and risk. assessment.	

8.1.8. Senior-Open-Source Intelligence Analyst (OSINT)

Experience: 10 Years	Education: Bachelor's or higher relevant degree
Description: Apply analytical techniques. Gather and analyze data to solve complex problems and/or produce finished reports, e.g., operations research, modeling, threat analysis, logistics procurement, and risk. assessment.	

8.1.9. Open-Source Technical Collector (OSINT)

Experience: 3 Years	Education: Bachelor's or higher relevant degree
Description: Apply analytical techniques. Gather and analyze data to solve complex problems and/or produce finished reports, e.g., operations research, modeling, threat analysis, logistics procurement, and risk. assessment.	

8.1.10. Open-Source Media Analyst (OSINT)

Experience: 3 Years	Education: Bachelor's or higher relevant degree
Description: Apply analytical techniques. Gather and analyze data to solve complex problems and/or produce finished reports, e.g., operations research, modeling, threat analysis, logistics procurement, and risk. assessment.	

8.1.11. Forensic Cellular Exploitation Examiner I

Experience: 3 Years	Education: Bachelor's or higher relevant degree
Description: Shall leverage deep preexisting technical knowledge, supported by a variety of commercially available, government-provided, and in-house developed digital forensic tools and techniques to fully exploit mobile devices and report findings. Examiners must possess a thorough understanding of the technical fundamentals behind digital forensics as they relate to CELLEX including: mobile file systems, mobile operating system internals, mobile applications, binary file formats, encryption/encoding/hashing algorithms, Wi-Fi, Bluetooth, nearfield, and cellular communication protocols and artifacts, roots/jailbreaks/vulnerabilities, the inner workings of bootloaders, firmware, the baseband, patches, permissions, and common locations of artifacts of interest. Examiners must be able to display unquestionable proficiency with the process of forensic imaging, being able to reliably produce forensically-sound images using a wide variety of tools, like the ADB shell itself, Cellebrite UFED Touch 2 and 4PC, XRY, AXIOM Acquire, etc. They must be innately familiar with various imaging formats (RAW, E01, Vendor Proprietary) imaging types (Physical, File System, Logical), hashing algorithms (MD5, SHA, etc.), and know what to do when commercial tools fail. They must also be familiar with the principles of chain-of-custody, the importance of following Standard Operating Procedures (SOP)s in a reliable and repeatable manner and taking detailed notes that are courtroom ready in the event that it ever becomes necessary. Further, they must be proficient in handling various types of hardware devices, cables, chargers and associated removable storage (if applicable). They must also be able to identify and assess damaged hardware for escalation to hardware teams without further jeopardizing recovery efforts.	

**8.1.12. Forensics Cellular Exploitation Examiner II**

Experience: 5 Years	Education: Bachelor's or higher relevant degree
Description: Shall leverage deep preexisting technical knowledge, supported by a variety of commercially available, government-provided, and in-house developed digital forensic tools and techniques to fully exploit mobile devices and report findings. Examiners must possess a thorough understanding of the technical fundamentals behind digital forensics as they relate to CELLEX including: mobile file systems, mobile operating system internals, mobile applications, binary file formats, encryption/encoding/hashing algorithms, Wi-Fi, Bluetooth, nearfield, and cellular communication protocols and artifacts, roots/jailbreaks/vulnerabilities, the inner workings of bootloaders, firmware, the baseband, patches, permissions, and common locations of artifacts of interest. Examiners must be able to display unquestionable proficiency with the process of forensic imaging, being able to reliably produce forensically-sound images using a wide variety of tools, like the ADB shell itself, Cellebrite UFED Touch 2 and 4PC, XRY, AXIOM Acquire, etc. They must be innately familiar with various imaging formats (RAW, E01, Vendor Proprietary) imaging types (Physical, File System, Logical), hashing algorithms (MD5, SHA, etc.), and know what to do when commercial tools fail. They must also be familiar with the principles of chain-of-custody, the importance of following Standard Operating Procedures (SOP)s in a reliable and repeatable manner and taking detailed notes that are courtroom ready in the event that it ever becomes necessary. Further, they must be proficient in handling various types of hardware devices, cables, chargers and associated removable storage (if applicable). They must also be able to identify and assess damaged hardware for escalation to hardware teams without further jeopardizing recovery efforts.	

8.1.13. Forensics Cellular Exploitation Examiner III

Experience: 8 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner	
Description: Shall leverage deep preexisting technical knowledge, supported by a variety of commercially available, government-provided, and in-house developed digital forensic tools and techniques to fully exploit mobile devices and report findings. Examiners must possess a thorough understanding of the technical fundamentals behind digital forensics as they relate to CELLEX including: mobile file systems, mobile operating system internals, mobile applications, binary file formats, encryption/encoding/hashing algorithms, Wi-Fi, Bluetooth, nearfield, and cellular communication protocols and artifacts, roots/jailbreaks/vulnerabilities, the inner workings of bootloaders, firmware, the baseband, patches, permissions, and common locations of artifacts of interest. Examiners must be able to display unquestionable proficiency with the process of forensic imaging, being able to reliably produce forensically-sound images using a wide variety of tools, like the ADB shell itself, Cellebrite UFED Touch 2 and 4PC, XRY, AXIOM Acquire, etc. They must be innately familiar with various imaging formats (RAW, E01, Vendor Proprietary) imaging types (Physical, File System, Logical), hashing algorithms (MD5, SHA, etc.), and know what to do when commercial tools fail. They must also be familiar with the principles of chain-of-custody, the importance of following Standard Operating Procedures (SOP)s in a reliable and repeatable manner and taking detailed notes that are courtroom ready in the event that it ever becomes necessary. Further, they must be proficient in handling various types of hardware devices, cables, chargers and associated removable storage (if applicable). They must also be able to identify and assess damaged hardware for escalation to hardware teams without further jeopardizing recovery efforts.	

**8.1.14. Senior Forensics Cellular Exploitation Examiner**

Experience: 10 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner Description: Shall leverage deep preexisting technical knowledge, supported by a variety of commercially available, government-provided, and in-house developed digital forensic tools and techniques to fully exploit mobile devices and report findings. Examiners must possess a thorough understanding of the technical fundamentals behind digital forensics as they relate to CELLEX including: mobile file systems, mobile operating system internals, mobile applications, binary file formats, encryption/encoding/hashing algorithms, Wi-Fi, Bluetooth, nearfield, and cellular communication protocols and artifacts, roots/jailbreaks/vulnerabilities, the inner workings of bootloaders, firmware, the baseband, patches, permissions, and common locations of artifacts of interest. Examiners must be able to display unquestionable proficiency with the process of forensic imaging, being able to reliably produce forensically-sound images using a wide variety of tools, like the ADB shell itself, Cellebrite UFED Touch 2 and 4PC, XRY, AXIOM Acquire, etc. They must be innately familiar with various imaging formats (RAW, E01, Vendor Proprietary) imaging types (Physical, File System, Logical), hashing algorithms (MD5, SHA, etc.), and know what to do when commercial tools fail. They must also be familiar with the principles of chain-of-custody, the importance of following Standard Operating Procedures (SOP)s in a reliable and repeatable manner and taking detailed notes that are courtroom ready in the event that it ever becomes necessary. Further, they must be proficient in handling various types of hardware devices, cables, chargers and associated removable storage (if applicable). They must also be able to identify and assess damaged hardware for escalation to hardware teams without further jeopardizing recovery efforts	

8.1.15. Forensics Media Exploitation Examiner I

Experience: 3 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner Description and Experience: Technical exploitation (or directly related) experience. Examples of qualifying experience includes, but is not limited to, conducting digital forensic investigations, providing technical MEDEX/CELLEX/VIDEX/I2/DOMEX/TECHEX services, targeted forensic software development, binary file or application reverse engineering. If a candidate has no prior experience, they must be able to clearly demonstrate an understanding of the fundamental principles and possess the aptitude, drive, motivation and ability to learn new skills and techniques quickly., Demonstrate an understanding of the technical fundamentals and core forensic principles required to perform all the aforementioned tasks with competency and accuracy, Demonstrate fluency in at least one, but preferably multiple, core commercial forensic imaging tools such as: DD (or DC3dd), FTK Imager, EnCase Imager, AXIOM Acquire, Imaging for Operations (IO), Demonstrate fluency in at least one, but preferably multiple, core commercial forensic analysis platform such as: EnCase (opentext), X-Ways Forensics (X-Ways Software Technology AG), Forensic Toolkit [FTK] (ACCESSDATA), MAGNET Axion (Magnet Forensics), Possess at least one active industry or DoD standard forensic certification (i.e. EnCE, ACE, CCE, GIAC, CFCE, DC3/DCITA Certified Digital Forensic Examiner), Possess experience conveying highly technical information effectively and concisely to a wide range of audiences via both briefings and technical reports. Possess the ability to thrive in a mission-critical and time-sensitive environment.	

**8.1.16. Forensics Media Exploitation Examiner II**

Experience: 5 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner Description and Experience: Technical exploitation (or directly related) experience. Examples of qualifying experience includes, but is not limited to, conducting digital forensic investigations, providing technical MEDEX/CELLEX/VIDEX/I2/DOMEX/TECHEX services, targeted forensic software development, binary file or application reverse engineering, Demonstrate an understanding of the technical fundamentals and core forensic principles required to perform all the aforementioned tasks with competency and accuracy, Demonstrate fluency in at least one, but preferably multiple, core commercial forensic imaging tools such as: DD (or DC3dd), FTK Imager, EnCase Imager, AXIOM Acquire, Imaging for Operations (IO), Demonstrate fluency in at least one, but preferably multiple, core commercial forensic analysis platform such as: EnCase (opentext), X-Ways Forensics (X-Ways Software Technology AG), Forensic Toolkit [FTK] (ACCESSDATA), MAGNET Axiom (Magnet Forensics), Possess at least one active industry or DoD standard forensic certification (i.e. EnCE, ACE, CCE, GIAC, CFCE, DC3/DCITA Certified Digital Forensic Examiner), Possess experience conveying highly technical information effectively and concisely to a wide range of audiences via both briefings and technical reports, Possess the ability to thrive in a mission-critical and time-sensitive environment	

8.1.17. Forensics Media Exploitation Examiner III

Experience: 8 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner Description and Experience: Technical exploitation (or directly related) experience. Examples of qualifying experience includes, but is not limited to, conducting digital forensic investigations, providing technical MEDEX/CELLEX/VIDEX/I2/DOMEX/TECHEX services, targeted forensic software development, binary file or application reverse engineering, Demonstrate an understanding of the technical fundamentals and core forensic principles required to perform all the aforementioned tasks with competency and accuracy, Demonstrate fluency in at least one, but preferably multiple, core commercial forensic imaging tools such as: DD (or DC3dd), FTK Imager, EnCase Imager, AXIOM Acquire, Imaging for Operations (IO), Demonstrate fluency in at least one, but preferably multiple, core commercial forensic analysis platform such as: EnCase (opentext), X-Ways Forensics (X-Ways Software Technology AG), Forensic Toolkit [FTK] (ACCESSDATA), MAGNET Axiom (Magnet Forensics), Possess at least one active industry or DoD standard forensic certification (i.e. EnCE, ACE, CCE, GIAC, CFCE, DC3/DCITA Certified Digital Forensic Examiner), Possess experience conveying highly technical information effectively and concisely to a wide range of audiences via both briefings and technical reports, Possess the ability to thrive in a mission-critical and time-sensitive environment	

8.1.18. Senior Forensics Media Exploitation Examiner

Experience: 10 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner Description and Experience: Technical exploitation (or directly related) experience. Examples of qualifying experience includes, but is not limited to, conducting digital forensic investigations, providing technical MEDEX/CELLEX/VIDEX/I2/DOMEX/TECHEX services, targeted forensic software development, binary file or application reverse engineering, Demonstrate an understanding of the technical fundamentals and core forensic principles required to perform all the aforementioned tasks with competency and accuracy, Demonstrate fluency in at least one, but preferably multiple, core commercial forensic imaging tools such as: DD (or DC3dd), FTK Imager, EnCase Imager, AXIOM Acquire, Imaging for Operations (IO), Demonstrate fluency in at least one, but preferably multiple, core commercial forensic analysis platform such as: EnCase (opentext), X-Ways Forensics (X-Ways Software Technology AG), Forensic Toolkit [FTK] (ACCESSDATA), MAGNET Axiom (Magnet Forensics), Possess at least one active industry or DoD standard forensic certification (i.e. EnCE, ACE, CCE, GIAC, CFCE, DC3/DCITA Certified Digital Forensic Examiner), Possess experience conveying highly technical information effectively and concisely to a wide range of audiences via both briefings and technical reports, Possess the ability to thrive in a mission-critical and time-sensitive environment	

**8.1.19. Forensic Software / Developer Reverse Engineer I**

Experience: 3 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description and Experience: Software development experience, to include some direct experience writing targeted digital forensic tools, working at the byte-level, and or reverse engineering files and applications. If a candidate has no prior experience, they must be able to clearly demonstrate an understanding of the fundamental principles and possess the aptitude, drive, motivation and ability to learn new skills and techniques quickly, Demonstrate an understanding of the technical fundamentals and core software development principles required to perform all of the aforementioned tasks with competency and accuracy, Demonstrate fluency in both high- and low-level programming languages, to include specifically C# and Python, Demonstrate proficiency with debuggers, Demonstrate fluency with a Hex editor, Possess the ability to gather testable software requirements and to participate in the design of new applications, Execute with maintainable software processes, including software documentation, source code versioning, and unit testing, Be able to quickly adapt to new situations and problems, Be familiar with assembly languages, Possess the aptitude for reverse engineering windows and mobile binaries, Possess the ability to thrive in a mission-critical and time-sensitive environment, ideally candidates are also familiar with the Windows API and with IDA pro	

8.1.20. Forensic Software Developer / Reverse Engineer II

Experience: 5 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description and Experience: Software development experience, to include some direct experience writing targeted digital forensic tools, working at the byte-level, and or reverse engineering files and applications. If a candidate has no prior experience, they must be able to clearly demonstrate an understanding of the fundamental principles and possess the aptitude, drive, motivation and ability to learn new skills and techniques quickly, Demonstrate an understanding of the technical fundamentals and core software development principles required to perform all of the aforementioned tasks with competency and accuracy, Demonstrate fluency in both high- and low-level programming languages, to include specifically C# and Python, Demonstrate proficiency with debuggers, Demonstrate fluency with a Hex editor, Possess the ability to gather testable software requirements and to participate in the design of new applications, Execute with maintainable software processes, including software documentation, source code versioning, and unit testing, Be able to quickly adapt to new situations and problems, Be familiar with assembly languages, Possess the aptitude for reverse engineering windows and mobile binaries, Possess the ability to thrive in a mission-critical and time-sensitive environment, ideally candidates are also familiar with the Windows API and with IDA pro	

8.1.21. Forensic Software Developer / Reverse Engineer III

Experience: 8 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description and Experience: Software development experience, to include some direct experience writing targeted digital forensic tools, working at the byte-level, and or reverse engineering files and applications. If a candidate has no prior experience, they must be able to clearly demonstrate an understanding of the fundamental principles and possess the aptitude, drive, motivation and ability to learn new skills and techniques quickly, Demonstrate an understanding of the technical fundamentals and core software development principles required to perform all of the aforementioned tasks with competency and accuracy, Demonstrate fluency in both high- and low-level programming languages, to include specifically C# and Python, Demonstrate proficiency with debuggers, Demonstrate fluency with a Hex editor, Possess the ability to gather testable software requirements and to participate in the design of new applications, Execute with maintainable software processes, including software documentation, source code versioning, and unit testing, Be able to quickly adapt to new situations and problems, Be familiar with assembly languages, Possess the aptitude for reverse engineering windows and mobile binaries, Possess the ability to thrive in a mission-critical and time-sensitive environment, ideally candidates are also familiar with the Windows API and with IDA pro	

**8.1.22. Senior Forensic Developer / Reverse Engineer**

Experience: 10 Years	Education: Bachelor's or higher relevant degree
Certification: GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description and Experience: Software development experience, to include some direct experience writing targeted digital forensic tools, working at the byte-level, and or reverse engineering files and applications. If a candidate has no prior experience, they must be able to clearly demonstrate an understanding of the fundamental principles and possess the aptitude, drive, motivation and ability to learn new skills and techniques quickly, Demonstrate an understanding of the technical fundamentals and core software development principles required to perform all of the aforementioned tasks with competency and accuracy, Demonstrate fluency in both high- and low-level programming languages, to include specifically C# and Python, Demonstrate proficiency with debuggers, Demonstrate fluency with a Hex editor, Possess the ability to gather testable software requirements and to participate in the design of new applications, Execute with maintainable software processes, including software documentation, source code versioning, and unit testing, Be able to quickly adapt to new situations and problems, Be familiar with assembly languages, Possess the aptitude for reverse engineering windows and mobile binaries, Possess the ability to thrive in a mission-critical and time-sensitive environment, ideally candidates are also familiar with the Windows API and with IDA pro	

8.1.23. Mobile Computer Forensics Analyst I

Experience: 3 Years	Education: Bachelor's or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform full-scope forensic examinations which include: Demonstrated experience in the field of digital media forensics, Demonstrated experience in mobile device data extraction and analysis, Understanding of computer file systems, In-depth experience with file system forensics, In-depth experience with registry analysis, In-depth experience with Internet history analysis, Understanding of steganography and encryption detection and analysis, Understanding of managing complex large data set analysis, In-depth experience with timeline analysis, Experience with forensic media imaging, In-depth experience with email analysis, In-depth experience with signature and hash analysis, Demonstrated experience with forensics tools such as EnCase, Forensic Toolkit, and X-ways, Strong documentation and written communication skills with technical report writing experience.	

8.1.24. Mobile Computer Forensic Analyst II

Experience: 5 Years	Education: Bachelor's or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform full-scope forensic examinations which include: Demonstrated experience in the field of digital media forensics, Demonstrated experience in mobile device data extraction and analysis, Understanding of computer file systems, In-depth experience with file system forensics, In-depth experience with registry analysis, In-depth experience with Internet history analysis, Understanding of steganography and encryption detection and analysis, Understanding of managing complex large data set analysis, In-depth experience with timeline analysis, Experience with forensic media imaging, In-depth experience with email analysis, In-depth experience with signature and hash analysis, Demonstrated experience with forensics tools such as EnCase, Forensic Toolkit, and X-ways, Strong documentation and written communication skills with technical report writing experience.	

**8.1.25. Mobile Computer Forensic Analyst III**

Experience: 8 Years	Education: Bachelor's or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform full-scope forensic examinations which include: Demonstrated experience in the field of digital media forensics, Demonstrated experience in mobile device data extraction and analysis, Understanding of computer file systems, In-depth experience with file system forensics, In-depth experience with registry analysis, In-depth experience with Internet history analysis, Understanding of steganography and encryption detection and analysis, Understanding of managing complex large data set analysis, In-depth experience with timeline analysis, Experience with forensic media imaging, In-depth experience with email analysis, In-depth experience with signature and hash analysis, Demonstrated experience with forensics tools such as EnCase, Forensic Toolkit, and X-ways, Strong documentation and written communication skills with technical report writing experience.	

8.1.26. Senior Mobile Computer Forensic Analyst

Experience: 10 Years	Education: Bachelor's or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform full-scope forensic examinations which include: Demonstrated experience in the field of digital media forensics, Demonstrated experience in mobile device data extraction and analysis, Understanding of computer file systems, In-depth experience with file system forensics, In-depth experience with registry analysis, In-depth experience with Internet history analysis, Understanding of steganography and encryption detection and analysis, Understanding of managing complex large data set analysis, In-depth experience with timeline analysis, Experience with forensic media imaging, In-depth experience with email analysis, In-depth experience with signature and hash analysis, Demonstrated experience with forensics tools such as EnCase, Forensic Toolkit, and X-ways, Strong documentation and written communication skills with technical report writing experience.	

8.1.27. Digital Forensics Analyst I

Experience: 3 Years	Education: Bachelor's or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform full-scope forensic examinations which include: Demonstrated experience in the field of digital media forensics, Demonstrated experience in mobile device data extraction and analysis, Understanding of computer file systems, In-depth experience with file system forensics, In-depth experience with registry analysis, In-depth experience with Internet history analysis, Understanding of steganography and encryption detection and analysis, Understanding of managing complex large data set analysis, In-depth experience with timeline analysis, Experience with forensic media imaging, In-depth experience with email analysis, In-depth experience with signature and hash analysis, Demonstrated experience with forensics tools such as EnCase, Forensic Toolkit, and X-ways, Strong documentation and written communication skills with technical report writing experience	

8.1.28. Digital Forensics Analyst II

Experience: 5 Years	Education: Bachelor's or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform full-scope forensic examinations which include: Demonstrated experience in the field of digital media forensics, Demonstrated experience in mobile device data extraction and analysis, Understanding of computer file systems, In-depth experience with file system forensics, In-depth experience with registry analysis, In-depth experience with Internet history analysis, Understanding of steganography and encryption detection and analysis, Understanding of managing complex large data set analysis, In-depth experience with timeline analysis, Experience with forensic media imaging, In-depth experience with email analysis, In-depth experience with signature and hash analysis, Demonstrated experience with forensics tools such as EnCase, Forensic Toolkit, and X-ways, Strong documentation and written communication skills with technical report writing experience	

**8.1.29. Digital Forensics Analyst III**

Experience: 8 Years	Education: Bachelor's or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform full-scope forensic examinations which include: Demonstrated experience in the field of digital media forensics, Demonstrated experience in mobile device data extraction and analysis, Understanding of computer file systems, In-depth experience with file system forensics, In-depth experience with registry analysis, In-depth experience with Internet history analysis, Understanding of steganography and encryption detection and analysis, Understanding of managing complex large data set analysis, In-depth experience with timeline analysis, Experience with forensic media imaging, In-depth experience with email analysis, In-depth experience with signature and hash analysis, Demonstrated experience with forensics tools such as EnCase, Forensic Toolkit, and X-ways, Strong documentation and written communication skills with technical report writing experience	

8.1.30. Senior Digital Forensic Analyst

Experience: 10 Years	Education: Bachelor's or higher relevant degree
Certification: GCF GCFA: Forensic Analyst, CSFA: Cyber Security Forensic Analyst, CCE: Certified Computer Examiner, CFCE: Certified Forensic Computer Examiner, CREA: Certified Reverse Engineering Analyst Description: Perform full-scope forensic examinations which include: Demonstrated experience in the field of digital media forensics, Demonstrated experience in mobile device data extraction and analysis, Understanding of computer file systems, In-depth experience with file system forensics, In-depth experience with registry analysis, In-depth experience with Internet history analysis, Understanding of steganography and encryption detection and analysis, Understanding of managing complex large data set analysis, In-depth experience with timeline analysis, Experience with forensic media imaging, In-depth experience with email analysis, In-depth experience with signature and hash analysis, Demonstrated experience with forensics tools such as EnCase, Forensic Toolkit, and X-ways, Strong documentation and written communication skills with technical report writing experience	

8.1.31. Technical Report Writer I

Experience: 3 Years	Education: Bachelor's or higher relevant degree
Description: Technical report writing or analysis experience (or other directly related experience). Examples of qualifying experience includes, but is not limited to, all-source intelligence analysis, targeting, fusion analysis, technical report writing. If a candidate has no prior experience, they must be able to clearly demonstrate an understanding of the fundamental principles and possess the aptitude, drive, motivation and ability to learn new skills and techniques quickly, Demonstrate ability to conduct search and/or exploit data from various sources to prepare operational or technical reports in one or more areas of specialization, Demonstrate ability to write reports, based on own analytic initiative and using multi-source intelligence, to include results from digital media exploitation, that lead to supported assessments, Possess training in intelligence analysis techniques or have experience conveying highly technical information effectively and concisely to a wide range of audiences, Possess extremely strong verbal presentation and writing skills, including the demonstrated ability to write clear and concise text and brief audiences of various technical sophistication on highly technical information, demonstrate excellent analytical ability, possess solid interpersonal skills, and thrive under tight deadlines.	

**8.1.32. Technical Report Writer II**

Experience: 5 Years	Education: Bachelor's or higher relevant degree
Description: Technical report writing or analysis experience (or other directly related experience). Examples of qualifying experience includes, but is not limited to, all-source intelligence analysis, targeting, fusion analysis, technical report writing. If a candidate has no prior experience, they must be able to clearly demonstrate an understanding of the fundamental principles and possess the aptitude, drive, motivation and ability to learn new skills and techniques quickly, Demonstrate ability to conduct search and/or exploit data from various sources to prepare operational or technical reports in one or more areas of specialization, Demonstrate ability to write reports, based on own analytic initiative and using multi-source intelligence, to include results from digital media exploitation, that lead to supported assessments, Possess training in intelligence analysis techniques or have experience conveying highly technical information effectively and concisely to a wide range of audiences, Possess extremely strong verbal presentation and writing skills, including the demonstrated ability to write clear and concise text and brief audiences of various technical sophistication on highly technical information, demonstrate excellent analytical ability, possess solid interpersonal skills, and thrive under tight deadlines.	

8.1.33. Technical Report Writer III

Experience: 8 Years	Education: Bachelor's or higher relevant degree
Description: Technical report writing or analysis experience (or other directly related experience). Examples of qualifying experience includes, but is not limited to, all-source intelligence analysis, targeting, fusion analysis, technical report writing. If a candidate has no prior experience, they must be able to clearly demonstrate an understanding of the fundamental principles and possess the aptitude, drive, motivation and ability to learn new skills and techniques quickly, Demonstrate ability to conduct search and/or exploit data from various sources to prepare operational or technical reports in one or more areas of specialization, Demonstrate ability to write reports, based on own analytic initiative and using multi-source intelligence, to include results from digital media exploitation, that lead to supported assessments, Possess training in intelligence analysis techniques or have experience conveying highly technical information effectively and concisely to a wide range of audiences, Possess extremely strong verbal presentation and writing skills, including the demonstrated ability to write clear and concise text and brief audiences of various technical sophistication on highly technical information, demonstrate excellent analytical ability, possess solid interpersonal skills, and thrive under tight deadlines.	

8.1.34. Senior Technical Report Writer

Experience: 10 Years	Education: Bachelor's or higher relevant degree
Description: Technical report writing or analysis experience (or other directly related experience). Examples of qualifying experience includes, but is not limited to, all-source intelligence analysis, targeting, fusion analysis, technical report writing. If a candidate has no prior experience, they must be able to clearly demonstrate an understanding of the fundamental principles and possess the aptitude, drive, motivation and ability to learn new skills and techniques quickly, Demonstrate ability to conduct search and/or exploit data from various sources to prepare operational or technical reports in one or more areas of specialization, Demonstrate ability to write reports, based on own analytic initiative and using multi-source intelligence, to include results from digital media exploitation, that lead to supported assessments, Possess training in intelligence analysis techniques or have experience conveying highly technical information effectively and concisely to a wide range of audiences, Possess extremely strong verbal presentation and writing skills, including the demonstrated ability to write clear and concise text and brief audiences of various technical sophistication on highly technical information, demonstrate excellent analytical ability, possess solid interpersonal skills, and thrive under tight deadlines.	



9.0. Terms and Conditions related to SIN 561611 Background Investigation Services

9.1. 561611 A variety of background investigations of persons for Federal Government purposes (including employment) are provided. Examples of background investigation services include but are not limited to: Provide background investigations (background checks) for potential or existing employees in accordance with applicable Federal, State, and local regulations. Verification of previous employers; salary histories; criminal records checks; education verification; and credit history checks. All investigative activities must be conducted in compliance with the Fair Credit Report Act as amended. Upon request, investigative services offered include Local Agency Check (LAC), National Agency Check with Local Agency Checks and credit checks (NACLC), Single Scope Background Investigations (SSBI), SSBI - Periodic Reinvestigation (SSBI-PR) and Single Scope Background Investigations - Misconduct Investigations (SSBI-MI).

These investigative services can support the authorized Department/Agencies in acquiring Reports of Investigation (ROI) in areas of public trust, national security and suitability investigations conducted by the Federal Government in compliance with appropriate sections of the United States Code (i.e. Title 5, Title 15), Executive Orders and requesting Department/Agency Directives, Policies and Procedures. Service providers must operate from a facility approved in accordance with the provisions of the National Industrial Security Program Operating Manual (NISPOM). Investigative Support Personnel and the Field Investigator staff must have active security clearances to the appropriate level as required by the customer Agency/Department.

9.2. Instructions: A variety of background investigations of persons for Federal Government purposes (including employment). The functions include:

9.2.1. Pre-Employment Screening support

9.2.2. Background Investigations

9.2.3. Verification of previous employers; salary histories, criminal records checks, education verification and credit history.

9.2.4. Investigative Services MUST include:

9.2.4.1. Local Agency Check (LAC)

9.2.4.2. National Agency Check with Local Agency Checks and credit checks (NACLC)

9.2.4.3. Single Scope Background Investigations (SSBI)

9.2.4.4. SSBI-Periodic Reinvestigation (SSBI-PR)

9.2.4.5. Misconduct Investigations (SSBI-MI)

*These investigative services can support the authorized Department/Agencies in acquiring Reports of Investigation (ROI) in areas of public trust, national security and suitability investigations conducted by the Federal Government in compliance with appropriate sections of the United States Code (i.e. Title 5, Title 15), Executive Orders and requesting Department/Agency Directives, Policies and Procedures.

*Service providers must operate from a facility approved in accordance with the provisions of the National Industrial Security Program Operating Manual (NISPOM).

*Investigative Support Personnel and the Field Investigator staff must have active security clearances to the appropriate level as required by the customer Agency/Department.

NOTE: Offerors MUST confirm they are NISPOM compliant.



9.1. Background Investigation Services (561611)

9.1.1. Echo Check Background Check (QPBC001)

SIN	Description
561611	Simple background checks (2 to 3 Business Days) are designed to give you more information than you would get through an instant background check company, but not nearly as much as you would get with an in-depth background check. Echo Check arrives in a simple, easy to digest template. The report may include the following if applicable or if information was found: Criminal history (if applicable) - Bankruptcies/liens/judgements (if applicable) - POI's (Person of Interest) social media accounts (Facebook, LinkedIn, Instagram, YouTube, and Pinterest; additional social media accounts are a la carte), history (up to 1 year back), significant activity that poses any risk to client (i.e.: unprofessional behavior) - Employment history, locations (this is not employment verification or resume verification) - POI's business or corporate affiliations (if applicable)

9.1.2. Echo Check Plus Background Check (QPBC002)

SIN	Description
561611	(3 to 4 Business Days) This service is a long-form report that will comprehensively answer your questions and/or concerns. This is a deep-dive research service on an individual, their digital footprint, social media presence, personal relationships, business associations, mentions in media outlets and/or publications, personal information, and potential activity on deep/dark web. In addition to everything provided with Echo Check, Echo Check Plus also includes the following (if applicable or information is readily available): POI's social media activity and history (full history, unprofessional behavior) - Pattern of life analysis on If applicable social media platforms (trend analysis) - Identifying personal habits and interests - POI's corporate or business affiliations, business partners, locations, history of business - Scraping of websites for PDFs and DOCs for significant information - Identifying personal or business relationships - If applicable, potential review of deleted/archived social media activity or website history - Deep/dark web queries - Advanced search engine queries to identify potential information about POI - Complaints about a POI or their business - Lawsuits against a POI - When possible, identify POI's intellectual property or assets - Associations with controversial or extremist groups - Career achievements

9.1.3. Echo Check Premium Background Check (QPBC003)

SIN	Description
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561611	(5 to 7 Business Days) This service includes comprehensive research on companies and C-Suite executives in instances including business acquisition, business competition or deep-dive reporting on the organization. This report will empower you to confidently make informed financial investments, provide you with a complete picture of the target company and/or individuals and highlight any potential threats or areas of concern. The report may include the following if applicable or if information was found: A digital profile on each C-Suite executive, including social media accounts and activity - C-Suite executives' previous work history, other business affiliations, potential judgments, liens, bankruptcies or criminal activity - Reviews or complaints about the company from customers or previous employees - Business revenue -Intellectual property - Size of the company and average salary per position - Products and services the company offers - Potential foreign influence toward the company - A competitive market analysis of the company - Has the company been hacked/breached - Overview of the Board of Directors - Media articles and publications which mention the company. - Deals, mergers or acquisitions the company has made
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9.1.4. Echo Check Threat (Threat Vulnerability Assessment) (QPBC004)

SIN	Description
561611	These Open-Source TVAs are geared toward individuals and organizations and have two perspectives: 1. Informs you or your organization of your own vulnerabilities on social media from a risk mitigation/personal safety/reputation management standpoint. 2. Alerts you or your organization to know what others are saying about you online from that same standpoint (protecting yourself vs mitigating disinformation, threats, etc.). The report may include the following if applicable or if information was found: Disinformation/misinformation directed at a POI or company - Unprofessional behavior that may disqualify a POI from employment or potential business relationships - Ties to controversial or extremist groups - Physical threats directed to people or organizations and/or general threat picture for an event - Indicators of potential for self-harm - Potential for violence or criminal behavior - Identification of unintended personally identifiable information (i.e.: address, make/model of vehicle, housing, vacations, etc.) on social media - Identify if a POI PII [Personally Identifiable Information] is on data broker sites (i.e. fastpeoplesearch.com, thatsthem.com, etc.)



10.0. Information Technology Training (611420) and Security Training (611430ST)

10.1. Terms and Conditions Related to SIN 611420 Information Technology Training

SIN 611420 Information Technology Training 611420 Includes training on hardware, software, cloud, and other applicable systems. NOTE: Subject to Cooperative Purchasing Instructions:

10.2. Specific Instructions for SIN 611420 – Information Technology Training

10.2.1. Prepaid training tokens, credits, etc., shall not be permitted on this SIN.

10.2.2. Offerors shall provide training courses 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 the IT Category.

10.2.3. Cancellation and Rescheduling

10.2.3.1. 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.

10.2.3.2. In the event the ordering activity fails to cancel or reschedule a training course within the time frame specified 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.

10.2.3.3. The ordering activity reserves the right to substitute one student for another up to the first day of class.

10.2.3.4. 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.

10.2.4. Follow-Up Support. The Contractor agrees to provide each student with unlimited telephone support or online 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.

10.2.5. Format And Content of Training

10.2.5.1. Offerors shall provide written materials (i.e., manuals, handbooks, texts, etc.) normally provided with course offerings, printed, and copied two-sided on paper containing 30% postconsumer materials (fiber). Such documentation will become the property of the student upon completion of the training class.

10.2.5.2. If applicable, for hands-on training courses, there must be a one-to-one assignment of IT equipment to students.

10.2.5.3. Offerors shall provide each student with a Certificate of Training at the completion of each training course.



10.2.5.4. Offerors shall provide the following information for each training course offered:

- 10.2.5.4.1.** course title,
- 10.2.5.4.2.** a brief description of the course content, to include the course format (e.g., lecture, discussion, hands-on training);
- 10.2.5.4.3.** length of the course;
- 10.2.5.4.4.** mandatory and desirable prerequisites for student enrollment;
- 10.2.5.4.5.** minimum and maximum number of students per class;
- 10.2.5.4.6.** locations where the course is offered;
- 10.2.5.4.7.** class schedules; and
- 10.2.5.4.8.** price (per student, per class (if applicable)).

10.2.5.5. For 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. The Industrial Funding Fee does NOT apply to travel and per diem charges.

10.2.5.6. For Online Training Courses, a copy of all training material must be available for electronic download by the students.

10.2.6. No Charge" Training

10.2.7. Offerors shall describe any training provided with equipment and/or software provided under this contract, free of charge as an attachment to the GSA Price List (I-FSS-600 CONTRACT PRICE LISTS (OCT 2016)).

10.2.8. If other than the manufacturer, submit proof of authorization to provide training course(s) for manufacturer's software and/or hardware products.

10.3. Terms and Conditions Related to SIN 611430ST Security Training

10.4. 611430ST Includes all security training related to law enforcement, security, emergency preparedness and/or first responders. Examples include instructor-led training, web-based training, pre-set courses, training development, consulting services, Continuity of Operations Planning (COOP) services, etc.



10.1. Information Technology Training (611420) and Security Training (611430ST) Courses and Rates

10.1.1. Open-Source Information Analysis (OSINT) (OSIA) - On Demand Training Course

Training Course Description	TYPE
A basic course on open-source research and analysis. It encompasses foundational knowledge required by students to understand how information is used to produce actionable business insight using EAG's Discover, Develop, Monitor (D2M) methodology.	<i>On-Demand</i>

10.1.2. Open-Source Collection Technician (OSINT) (OSCT) Course - On Demand Training Course

Training Course Description	TYPE
A basic course on open-source research and analysis. It encompasses foundational knowledge required by students to understand how information is used to produce actionable business insight using EAG's Discover, Develop, Monitor (D2M) methodology.	<i>On-Demand</i>

10.1.3. Open Source (OSINT) Analyst Certification Bundle - On Demand Training Course

Training Course Description	TYPE
A basic course on OSINT. It encompasses foundational knowledge required by students to produce actionable business insight using EAG's D2M methodology. Includes 3 technical courses in Adobe, Programming, and Web development.	<i>On-Demand</i>

10.1.4. Certified Open-Source (OSINT) Collection Technician Bundle - Virtual on Demand Training Course

Training Course Description	TYPE
Bundle Includes Open-Source Collection Technician Course; SQL Database for Beginners Course; C++ for Beginners Course; inDesign Building Blocks; Python for Beginners; Bootstrap 4 Essentials; HTML5 Authoring; Javascript ES6; PHP Fundamentals; Mastering CSS	<i>On-Demand</i>

10.1.5. Fundamentals of Open-Source (OSINT) Research and Analysis In-Person Course

Training Course Description	TYPE
A 5-day basic course designed to introduce students to open-source or publicly available information (PAI) and how to use it to reach actionable insights on organization requirements; reinforced with a culminating exercise using relevant real-world events. Course Objectives: 1. Learn to apply D2M™ to conduct analysis; 2. A propriety methodology of Discover, Develop, and Monitor 2. Gain an understanding of the digital landscape 3. Learn about analytic tools used for conducting open-source research and analysis. Pre-requisites: There are none. Students should be in a position where this training is required to do their jobs or to apply for an analyst position requiring this subject matter.	<i>In-Person</i>

10.1.6. Advanced Open-Source (OSINT) Research and Analysis - In-Person Course



Training Course Description	TYPE
A 10-day advanced course designed to arm students with the ability to assess open-source information accurately, rapidly, and effectively in a collaborative training environment, using perspectives-based research methods; reinforced through hands-on practical exercises and a final culminating exercise tailored to fit the student's current operational environment. Course Objectives: 1. Apply knowledge of D2M™; to interpret the PAI landscape 2. Demonstrate the ability to operationalize PAI through numerous specifically designed practical exercises 3. Apply analytic tools toward research and analysis to harness PAI in a live digital environment. Pre-requisites: Echo Academy Fundamental of Open-Source Research and Analysis course or the Echo Academy Open-Source Information Analysis Virtual on-Demand Training Course."	<i>In-Person</i>

10.1.7. Advanced Open-Source Research and Analysis (OSINT) - Virtual Instructor Led Course

Training Course Description	TYPE
A 10-day advanced course designed for intelligence professionals, combining critical thinking with the most optimal open-source analysis tools to develop and deliver relevant OSINT accurately, rapidly, and effectively in a collaborative learning environment. Learn advanced tradecraft, tools, and critical thinking techniques to research, collect, and process PAI in support of OSINT operations.	<i>Virtual Instructor</i>

10.1.8. Advanced Open-Source Intelligence Tradecraft (OSINT) - In-Person Course

Training Course Description	TYPE
A 10-day advanced course designed for intelligence professionals, combining critical thinking with the most optimal open-source analysis tools to develop and deliver relevant OSINT accurately, rapidly, and effectively in a collaborative learning environment. Learn advanced tradecraft, tools, and critical thinking techniques to research, collect, and process PAI in support of OSINT operations.	<i>In-Person</i>

10.1.9. Advanced Open-Source Intelligence Tradecraft (OSINT)- Virtual Instructor Led Course

Training Course Description	TYPE
A 10-day advanced course designed for intelligence professionals, combining critical thinking with the most optimal open-source analysis tools to develop and deliver relevant OSINT accurately, rapidly, and effectively in a collaborative learning environment. Learn advanced tradecraft, tools, and critical thinking techniques to research, collect, and process PAI in support of OSINT operations.	<i>On-Virtual Instructor</i>

**10.1.10. Advanced Publicly Available Research and Public Engagement Course - In Person Course**

Training Course Description	TYPE
Advanced PAI Research and Public Engagement Course is an 80-hour course conducted over a 10-day period. Students who attend this course will be trained and assessed in techniques of utilizing PAI to conduct advanced public engagements in support of the United States and its partner forces. This course provides instruction and hands-on practical exercises with real-world data to reinforce the Learning Outcomes below. Learning Outcomes: Upon completion of this course, students will be able to: 1. Use PAI research techniques to develop investigative leads for: Civil Engagement (CE), Civil Network Development, Civil Knowledge Integration, organization mapping, and vectors of influence. 2. Use critical thinking to develop leads into operational assets. 3. Employ the Discover, Develop, Monitor (D2M) methodology. 4. Manage professional and personal digital footprint while actively mitigating operational risk in a live training scenario."	<i>On-Virtual Instructor</i>



11.0. Terms and Conditions Related to Professional Services (ANCILLARY)

Ancillary Supplies and Services – Ancillary supplies and/or services are support supplies and/or services which are not within the scope of any other SIN on this schedule. These supplies and/or services are necessary to complement a contractor's offerings to provide a solution to a customer requirement. The SIN may be used for orders and blanket purchase agreements that involve work or project that is sole associated with the supplies and/or services purchased under this schedule. NOTE: When used in conjunction with a Cooperative Purchasing eligible SIN, this SIN is Cooperative Purchasing Eligible.

11.1. Ancillary Supplies and/or Services (ANCILLARY)

11.1.1. Information Technology Operation and Maintenance Service

Experience: 5 Years	Education: Bachelor or higher in relevant degree
Description: Monitor, upgrade, and maintain an organization's applications and IT infrastructure on a continuous basis. keep IT systems running smoothly by managing change, monitoring performance, and supporting users. Help Desk support, Network and systems administration, Database administration, Application support, Configuration management, Software maintenance and upgrades, IT infrastructure optimization and Data backups	

11.1.2. Geospatial Software Subject Matter Expert Services

Experience: 5 Years	Education: Bachelor or higher in relevant degree
Description: The Software Subject Matter Expert will be an Esri and ArcGIS Enterprise Subject Matter Expert. He/she will provide onsite software expertise to enhance the workforce's knowledge and use of the ArcGIS Enterprise platform and overall software suite. The SSME will lead onsite innovation to create solutions and data connections using remote sensing technologies and real-time sensors. The SSME will further use the latest system tools and 2D/3D visualization technologies to develop unique data ingest points to support enhanced visualization of briefs and analytical efforts. The SSME tasks shall include writing scripts for ingesting new live feeds, documents, and data; supporting dashboard and application development; customizing and maintaining widgets for use in dashboards, shall coordinate maintenance regularly on current system and data ingest feeds; provide assistance in troubleshooting and technical support when required; provide technical consulting and conceptual solution design. The Software Subject Matter Expert may occasionally be required to provide executive level briefings and presentations. Draw analytical judgements through the utilization of GeoEvent, Insights, and Storymaps analysis tools.	

11.1.3. End to End DevOps Implementation Consulting

Experience: 5 Years	Education: Bachelor or higher in relevant degree
Description: "We can help you leverage connected and automate development, testing and deployment of your applications at any stage of your apps' life cycle by: • Applying the Infrastructure as a Code (IaaC) approach. • Applying app module containerization. • Setting up continuous integration and deployment (CI/CD) pipelines. • Introducing test automation. • Introducing automated application monitoring."	



11.1.4. Professional Support Services - Geospatial

Experience: 5 Years	Education: Bachelor or higher in relevant degree
Description: He/she will provide onsite or offsite software expertise to enhance the workforce's knowledge and use of the ArcGIS Enterprise platform and other geospatial software suites. The SME will lead onsite innovation to create solutions and data connections using remote sensing technologies and real-time sensors. The SSME will further use the latest system tools and 2D/3D visualization technologies to develop unique data ingest points to support enhanced visualization of briefs and analytical efforts. The SSME tasks shall include writing scripts for ingesting new live feeds, documents and data; supporting dashboard and application development; customizing and maintaining widgets for use in dashboards, shall coordinate maintenance regularly on current system and data ingest feeds; provide assistance in troubleshooting and technical support when required; provide technical consulting and conceptual solution design. May occasionally be required to provide executive level briefings and presentations. Draw analytical judgements through the utilization of GeoEvent, Insights, and Storymaps analysis tools. (Travel Expenses are not included in this pricing)	

11.1.5. Professional Support Services - Analytics as a Service (AaaS)

Experience: 5 Years	Education: Bachelor or higher in relevant degree
Description: Quiet Professionals, LLC Analysis-as-a-Service (AaaS) applies both a methodology and framework to provide real-time predictive analytics, artificial intelligence (AI) and machine learning (ML) for data driven decisions. Data is fused and analyzed in real-time from targeted sources to address critical information gaps and provide actionable insight. QP's AaaS provides lightweight web applications and Dashboard solutions that derive context from content to convey information using intuitive and interactive data visualizations on a single screen and on any device.	



12.0. Order-Level Materials (OLMs)

Order-Level Materials (OLMs) are supplies and/or services acquired in direct support of an individual task or delivery order placed against a Federal Supply Schedule (FSS) contract or FSS Blanket Purchase Agreement (BPA). OLMs are not defined, priced, or awarded at the FSS contract level. They are unknown before a task or delivery order is placed against the FSS contract or FSS BPA. OLMs are only authorized for inclusion at the order level under a Time-and-Materials (T&M) or Labor-Hour (LH) Contract Line-Item Number (CLIN) and are subject to a Not To Exceed (NTE) ceiling price.

OLMs include direct materials, subcontracts for supplies and incidental services for which there is not a labor category specified in the FSS contract, other direct costs (separate from those under Other Direct Cost (ODC) SINs), and indirect costs. OLMs are purchased under the authority of the FSS Program and are not "open market items." Items awarded under ancillary supplies/services or ODC SINs are not OLMs. These items are defined, priced, and awarded at the FSS contract level; whereas OLMs are unknown before an order is placed.

Ancillary supplies/services and ODC SINs are for use under all order type CLINs (Fixed-Price (FP), T&M, and LH), whereas the Order-Level Materials SIN is only authorized for use under T&M and LH order CLINs. The OLMs SIN is only authorized for use in direct support of another awarded SIN. Price analysis for OLMs is not conducted when awarding the FSS contract or FSS BPA; therefore, GSAR 538.270 and 538.271 do not apply to OLMs. OLMs are defined and priced at the ordering activity level in accordance with GSAR clause 552.238-82 Special Ordering Procedures for the Acquisition of Order-Level Materials. Prices for items provided under the OLMs SIN must be inclusive of the Industrial Funding Fee (IFF). The value of OLMs in a task or delivery order, or the cumulative value of OLMs in orders against an FSS BPA awarded under an FSS contract, cannot exceed 33.33%.

12.1. 552.238-115 Special Ordering Procedures for the Acquisition of Order Level Materials (APR 2022)

12.1.1. Definition: Order-level materials", as used in this clause, means supplies and/or services acquired in direct support of an individual task or delivery order placed against a Federal Supply Schedule (FSS) contract or FSS blanket purchase agreement (BPA), when the supplies and/or services are not known at the time of Schedule contract or FSS BPA award. The prices of order-level materials are not established in the FSS contract or FSS BPA. Order-level materials acquired following the procedures in paragraph (d) of this clause are done so under the authority of the FSS program, pursuant to 41 U.S.C. 152(3), and are not open market items, which are discussed in FAR 8.402(f).

12.1.2. FAR 8.403(b) provides that GSA may establish special ordering procedures for a particular FSS.

12.1.3. The procedures in FAR subpart 8.4 apply to this contract, with the exceptions listed in this clause. If a requirement in this clause is inconsistent with FAR subpart 8.4, this clause takes precedence pursuant to FAR 8.403(b).

12.2. Procedures for including order-level materials when placing an individual task or delivery order against an FSS contract or FSS BPA.

12.2.1. The procedures discussed in FAR 8.402(f) do not apply when placing task and delivery orders that include order-level materials.

12.2.2. Order-level materials are included in the definition of the term "material" in FAR clause 52.212-4 Alternate I, and, therefore, all provisions of FAR clause 52.212-4 Alternate I that apply to "materials" also apply to order-level materials.

12.2.3. Order-level materials shall only be acquired in direct support of an individual task or delivery order and not as the primary basis or purpose of the order.



12.2.4. The value of order-level materials in a task or delivery order, or the cumulative value of order-level materials in orders against an FSS BPA awarded under a FSS contract, shall not exceed 33.33%.

12.2.5. All order-level materials shall be placed under the Order-Level Materials SIN.

12.2.6. Prior to the placement of an order that includes order-level materials, the Ordering Activity shall follow the procedures in FAR 8.404(h).

12.2.7. To support the price reasonableness of order-level materials–

12.2.7.1. The Contractor proposing order-level materials as part of a solution shall obtain a minimum of three quotes for each order-level material above the simplified acquisition threshold.

12.2.8. One of these three quotes may include materials furnished by the Contractor under paragraph (i)(1)(ii)(A) of FAR clause 52.212-4 Alternate I.

12.2.9. If the Contractor cannot obtain three quotes, the Contractor shall maintain documentation of why three quotes could not be obtained to support their determination.

12.2.10. A Contractor with an approved purchasing system, per FAR subpart 44.3, shall instead follow its purchasing system requirement and is exempt from the requirements in paragraphs (d)(7)(i)(A) through (B) of this clause.

12.2.10.1. The Ordering Activity Contracting Officer must make a determination that prices for all order-level materials are fair and reasonable. The Ordering Activity Contracting Officer may base this determination on a comparison of the quotes received in response to the task or delivery order solicitation or other relevant pricing information available.

12.2.10.2. If indirect costs are approved per paragraph (i)(1)(ii)(D)(2) of FAR clause 52.212-4 Alternate I, the Ordering Activity Contracting Officer must make a determination that all indirect costs approved for payment are fair and reasonable. Supporting data shall be submitted in a form acceptable to the Ordering Activity Contracting Officer.

12.2.11. Prior to an increase in the ceiling price of order-level materials, the Ordering Activity Contracting Officer shall follow the procedures at FAR 8.404(h)(3)(iv).

12.2.12. In accordance with GSAR clause 552.238-83, *Examination of Records by GSA (Federal Supply Schedules)*, GSA has the authority to examine the Contractor's records for compliance with the pricing provisions in FAR clause 52.212-4 Alternate I, to include examination of any books, documents, papers, and records involving transactions related to the contract for overbillings, billing errors, and compliance with the Industrial Funding Fee (IFF) and the Sales Reporting clauses of the contract.

12.2.13. Order-level materials are exempt from the following clauses:

12.2.13.1. 552.216-70 *Economic Price Adjustment - FSS Multiple Award Schedule Contracts.*

12.2.13.2. 552.238-77 *Submission and Distribution of Authorized Federal Supply Schedule (FSS) Price Lists.*

12.2.13.3. 552.238-81 *Price Reductions.*

13.0. Education Substitution



QP offers only personnel who meet or exceed the minimum qualification requirements stated in the Commercial Labor Category Descriptions provided herein. QP does allow experience to substitute for education requirements and education for experience. Also, Professional Certification related to the technology is equivalent to two years of experience or the education requirement. GSA and/or the ordering activities may have access to any QP's employee resume (by request) before, during or after assignment of any GSA order. If for some extenuating reason a person assigned to an order must be replaced or substituted, the ordering activity will be notified in advance, in writing, and the substituting person will have equal or greater qualifications than the departing employee. QP's criteria for substitution of educational degree or experience are as follows:

13.1. Education Substituted for Experience:

13.1.1. Formal education may substitute for experience.

13.1.2. Each formal degree (i.e., Bachelor's, Master's, or Ph.D.) may substitute for four (4) years of experience.

13.2. Experience Substituted for Formal Education:

13.3. Specialized experience may substitute for formal education.

13.4. Four (4) years of experience may substitute for a bachelor's degree.

13.5. Bachelor's Degree plus 2 years of additional general experience and 2 additional years of specific related experience with similar functional responsibilities may substitute for a master's degree.

END OF CATALOG