

# 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 are available through GSA Advantage!®, a menu-driven database system. The INTERNET address GSA Advantage!® is: [GSAAdvantage.gov](http://GSAAdvantage.gov).

Schedule Title- Multiple Award Schedule (MAS)  
Federal Supply Group: Information Technology  
Contract Number: 47QTCA18D00KP

For more information on ordering from Federal Supply Schedules click on the FSS Schedules button at [fss.gsa.gov](http://fss.gsa.gov)

Period Covered by Contract: September 18, 2018 through September 17, 2023  
Pricelist current through Modification: #A812 effective February 28, 2020



**Contractor:** Abaco Strategy LLC  
17 Loudoun St., SE, Suite 200, Leesburg, VA 20175

**Telephone:** 703-231-3403

**FAX Number:** 703-738-7570

**Web Site:** [www.abacostrategy.com](http://www.abacostrategy.com)

**E-mail:** [estefania.arregui@abacostrategy.com](mailto:estefania.arregui@abacostrategy.com)

**Contract Administration:** Estefania Arregui-Gómez, PMP, CSM, CPP, ITILv3

**Business Size:** Small business, Woman Owned business, Women Owned (WOSB), Women Owned (EDWOSB), SBA Certified Small Disadvantaged business, SBA Certified HUBZone Firm

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**I. CUSTOMER INFORMATION**

1a. Table of Awarded Special Item Number:

SIN	Category	SIN Description
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.
OLM		Order Level Materials

1b. LOWEST PRICED MODEL NUMBER AND PRICE FOR EACH SIN:

54151S	HelpDesk Analyst	\$57.58
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1c. HOURLY RATES: See page 5 for hourly rates and descriptions.

2. Maximum order:

SIN Title	Maximum Order
54151S Information Technology Professional Services	\$500,000.00
OLM	\$100,000.00

3. Minimum order: \$100.00

4. Geographic coverage (delivery area): CONUS

5. Points of production: Same as Contractor Address

6. Discount from list prices: GSA Net Prices are shown on the attached GSA Pricelist. Negotiated discount has been applied and the IFF has been added.

7. Quantity discounts: 1.5% for orders greater than \$200,000.00

8. Prompt payment terms: Prompt payment terms must be followed by the statement "Information for Ordering Offices: Prompt payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions." 2% Net 15 Days

9.a Government Purchase Cards must be accepted at or below the micro-purchase threshold.

9.b Government Purchase Cards are accepted above the micro-purchase threshold.

10. FOREIGN ITEMS: None

11a. Time of Delivery: Services Specified on the Task Order

- 11b. Expedited Delivery: Contact Contractor
- 11c. Overnight and 2-day delivery: Contact Contractor
- 11d. Urgent Requirements: Contact Contractor
12. F.O.B Points: Destination
- 13a. Ordering Address: Same as Contractor
- 13b. Ordering procedures: For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's), are found in Federal Acquisition Regulation (FAR) 8.405-3.
14. Payment address: Same as company address
15. Warranty provision: Contractor's standard commercial warranty.
16. Export Packing Charges: N/A
17. Terms and conditions of Government purchase card acceptance (any thresholds above the micropurchase level): Contact Contractor
18. Terms and conditions of rental, maintenance, and repair: N/A
19. Terms and conditions of installation: N/A
20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices: N/A
- 20a. Terms and conditions for any other services: N/A
21. List of service and distribution points: N/A
22. List of participating dealers: N/A
23. Preventive maintenance: N/A
- 24a. Environmental attributes, e.g., recycled content, energy efficiency, and/or reduced pollutants: N/A
- 24b. Section 508 Compliance for EIT: As Applicable
25. Data Universal Number System (DUNS) number. 079410349
26. NOTIFICATION REGARDING REGISTRATION IN SYSTEM FOR AWARD MANAGEMENT (SAM) DATABASE: Contractor has an Active Registration in the SAM database.

## II. IT PROFESSIONAL SERVICES RATES

Labor Category	Year 1 9.18.18- 9.17.19	Year 2 9.18.19- 9.17.20	Year 3 9.18.20- 9.17.21	Year 4 9.18.21- 9.17.22	Year 5 9.18.22- 9.17.23
.Net Developer	\$101.62	\$103.96	\$106.35	\$108.80	\$111.30
Applications Systems Developer III	\$111.41	\$113.97	\$116.59	\$119.27	\$122.02
Business Consultant	\$109.69	\$112.21	\$114.79	\$117.43	\$120.13
Configuration Manager	\$107.56	\$110.03	\$112.56	\$115.15	\$117.80
Database Architect/Analyst	\$147.67	\$151.07	\$154.55	\$158.10	\$161.74
Document Management Specialist	\$101.59	\$103.93	\$106.32	\$108.76	\$111.26
Enterprise Document Management Architect	\$174.75	\$178.77	\$182.88	\$187.09	\$191.39
Functional Analyst II	\$98.59	\$100.86	\$103.18	\$105.55	\$107.98
HelpDesk Analyst	\$56.28	\$57.58	\$58.90	\$60.26	\$61.64
Middleware Architect	\$129.37	\$132.34	\$135.39	\$138.50	\$141.69
Performance Test Engineer III	\$114.14	\$116.77	\$119.46	\$122.20	\$125.01
Program Manager II	\$147.67	\$151.07	\$154.55	\$158.10	\$161.74
Project Manager	\$118.49	\$121.21	\$124.00	\$126.85	\$129.77
Rational Jazz System Administrator	\$97.75	\$100.00	\$102.30	\$104.65	\$107.06
SAS Administrator	\$97.75	\$100.00	\$102.30	\$104.65	\$107.06
Security Analyst III	\$125.97	\$128.87	\$131.83	\$134.86	\$137.96
Security Architect	\$179.81	\$183.95	\$188.18	\$192.51	\$196.93
Security Technical Writer	\$95.76	\$ 97.96	\$100.21	\$102.52	\$104.88
SharePoint Administrator	\$107.51	\$109.98	\$112.51	\$115.10	\$117.74
Software Developer	\$123.43	\$126.26	\$129.17	\$132.14	\$135.18
Software Tester II	\$105.31	\$107.73	\$110.21	\$112.74	\$115.33
Sr. Management Consultant	\$192.48	\$196.91	\$201.44	\$206.07	\$210.81
Systems Engineer II	\$72.57	\$74.24	\$75.95	\$77.70	\$79.49

**III. LABOR CATEGORY DESCRIPTIONS**

The below services are presented in the same manner that Abaco Strategy, LLC sells to the commercial and other ordering activity customers. Hourly rates are offered and are directly related to Abaco Strategy’s commercial offerings. For each skill available, there is a commercial job title; the minimum/general experience; functional/responsibility; and minimum education.

**Figure 1. Allowable Substitutions of Education and Experience**

The minimum education and experience will be met when the educational equivalencies in the tables below are considered.  
*Additional educational achievements in excess of requirements can be substituted for experience requirements:*

Required Education	Actual Education Obtained	Additional Years of Experience Credited the Employee
MA/MS	Ph.D.	4
BA/BS	Ph. D.	6
BA/BS	MA/MS	4
HS/GED	BA/BS	4

*Additional experience in excess of requirements can be substituted for educational requirements:*

Required Education	Actual Education Obtained	Additional Years of Experience Credited the Employee
None	HS/GED	2
HS/GED	Tech-Inst/Military Training	2
HS/GED	BA/BS	4
HS/GED	MA/MS	6
HS/GED	Ph.D.	No Equivalency
AA/AS	BA/BS	2
AA/AS	MA/MS	4
BA/BS	MA/MS	2
BA/BS	Ph.D.	6
MA/MS	Ph.D.	4

<p><b>Commercial Job Title: .Net Developer</b></p> <p><b>Minimum/General Experience:</b>                  Three (3) years of experience developing software. Knowledge in .NET related technologies and development environments. Knowledge of system analysis, design, and or maintenance. Excellent understanding of requirements gathering, design and development of custom applications. Excellent understanding of object-oriented design concepts.</p> <p><b>Functional Responsibility:</b>                  Creates technical solutions by designing, implementing, testing, deploying, and maintaining software applications. Core duties include defining solution objectives by analyzing user requirements, mapping the requirements to design options, evaluating the options and recommending a solution based on the customer priorities, and implementing the agreed upon solution. Applies basic knowledge of programming techniques and best practices around developing custom programs using .Net or other programming languages. Develops program specifications for writing and testing applications. Develops test data, performs thorough testing and corrections to ensure compliance with requirements. Documents applications according to Government standards and procedures</p> <p><b>Minimum Education:</b>                  BS degree in Computer science, Information science or related scientific field. Waiver for degree can be allowed with five years experience in this field.</p>
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<p><b>Commercial Job Title: Applications Systems Developer III</b></p> <p><b>Minimum/General Experience:</b></p>
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Five (5) years of experience developing software. Knowledge in .NET related technologies and development environments. Knowledge of system analysis, design, and or maintenance. Excellent understanding of requirements gathering, design and development of custom applications. Excellent understanding of object-oriented design concepts.

**Functional Responsibility:**

Creates technical solutions by designing, implementing, testing, deploying, and maintaining software applications. Core duties include defining solution objectives by analyzing user requirements, mapping the requirements to design options, evaluating the options and recommending a solution based on the customer priorities, and implementing the agreed upon solution. Applies basic knowledge of programming techniques and best practices around developing custom code. Develops program specifications for writing and testing applications. Oversees development of test data, performs thorough testing and corrections to ensure compliance with requirements. Documents applications according to Government standards and procedures. Extensive experience in J2EE or .NET related technologies and development environments. Excellent understanding of software development lifecycle. Extensive experience in system analysis, requirements gathering, design and development of custom programs. Experience includes a broad range of assignments in technical tasks.

**Minimum Education:**

Bachelor's Degree in Computer Science, Information Systems, Engineering, Business, Science or other technically related discipline.

**Commercial Job Title: Business Consultant**

**Minimum/General Experience:**

Five (5) years of experience as a business analyst, functional analyst, or related field.

**Functional Responsibility:**

Gather and analyze requirements under the direction of project manager or Senior Business Consultant/Analyst. Ability to recommend new business processes, guide organizations to enterprise process change, and facilitate organizational change. Is able to Gather and analyze requirements and works independently with little direction. Designs and documents requirements use cases and business processes in a consistent and uniformed manner. Ability to recommend new business processes, guide organizations to enterprise process change, and facilitate organizational change.

**Minimum Education:**

Bachelors degree in IT or business disciplines.

**Commercial Job Title: Configuration Manager**

**Minimum/General Experience:**

Five (5) years of related experience in and be able to document and implement plans for ensuring configuration control for IT programs, projects, and tasks.

**Functional Responsibility:**

Develops, implements, and maintains configuration management programs in support of a variety of software, hardware, and services. Enforces or meets standards for configuration management life cycle and documentation. Participates in the development and definition of major and minor characteristics of configuration management and determines requisite configuration management resources for projects. Conducts or participates in formal and informal reviews at predetermined points throughout the system life cycle. Reviews and evaluates software products and services for adherence to government directives, standards, and guidelines.

**Minimum Education:**

Bachelor's degree in Computer science, Information science or related scientific field.

**Commercial Job Title: Database Architect/Analyst**

**Minimum/General Experience:**

Eight (8) years of related experience, including five (5) years as a database administrator or database developer.

**Functional Responsibility:**

Designs databases to support the development of application solutions and is responsible for the design of the data used, updated, and produced by the application. Uses data modeling to help generate application solutions. Provides competent leadership, and highly specialized and technical guidance, to complex data architectural challenges. Simultaneously plans, manages, and provides technical

oversight for data architecture activities. Directs completion of tasks within estimated time frames and budget constraints. Schedules and as-signs duties to subordinates, and formulates and enforces work standards. Coordinates with the Program Manager, Deputy Program Manager, or Project Manager to ensure problem resolution and customer satisfaction. May serve as Task Order Manager for one or more task orders. Has extensive experience in project management and data architecture discipline(s).

**Minimum Education:**

Bachelor's degree in Computer science, Information science or related scientific field.

**Commercial Job Title: Document Management Specialist**

**Minimum/General Experience:**

Three (3) or more years of experience assisting the design, development, and support of document management applications for Documentum or other platforms.

**Functional Responsibility:**

Works as part of a team that supports and develops applications for use against document management or information system platforms in production, test, and development environments. Writes, reviews, or executes plans for testing new or established document management or information systems. Assists in leading the design, development, and support of applications. Provides operations support of the production, test, and development of environments, including off hours support as needed. Reviews and updates project documents to ensure program standards are met and technical content is complete. Ensures Content Management (CM) and other information system standards are met. Provides custom integration implementation support on products involving software including pre-site inspection, initial installation, implementation, customization, integration and outline orientation for the customer.

**Minimum Education:**

Bachelor's Degree in Computer Science, Information Systems, Engineering, Business, Science or other technically related discipline.

**Commercial Job Title: Enterprise Document Management Architect**

**Minimum/General Experience:**

Eight (8) years of experience with a minimum of three (3) years specialized experience as an architect. Excellent understanding of infrastructure, development processes, scope and requirements processes. Extensive experience with designing technical solutions in various business processes.

**Functional Responsibility:**

Acts as the main point of contact for technical customer inquiries. Is responsible for developing project plans, justifications, guidelines and controls. Applies knowledge of computer concepts and techniques to develop and implement automated solutions to engineering, scientific, or business data acquisition and management problems. Leads in implementation, design and development of software applications. Reviews and manages system design to ensure it covers system requirements and/or system requirements are updated. Reviews and manages system implementation to ensure it covers system design and/or system requirements and designs are updated. Responsible for technical roadmaps and system infrastructure including infrastructure design, implementation, and maintenance. Ability to perform system analysis and technology recommendations. Reviews team designs and implementation deliverables. Applies advanced knowledge of computer concepts, techniques and Documentum's product suite or other information platforms to design, develop and implement automated solutions to imaging, content/document management, engineering, and management problems. Is responsible for enterprise architecture planning, capacity planning, logical and physical architecture specifications, justifications guidelines, and controls. Develops alternative approaches to design, test, and evaluation techniques for solving automation problems. Ability to perform enterprise system analysis and technology recommendations.

**Minimum Education:**

Bachelor's Degree in Computer Science, Information Systems, Engineering, Business, Science or other technically related discipline.

**Commercial Job Title: Functional Analyst II**

**Minimum/General Experience:**

Six (6) years of specialized experience in functional decomposition of primary system functions and sub functions to determine actions/tasks required to satisfy client needs. Ability to identify all internal and external functional interfaces, special knowledge and skills, or unique requirements associated with system development and performance.

**Functional Responsibility:**



Guides users in defining actions or tasks and chronology of events associated with systems development or integration. Participates in Business Process Reengineering functions. Performs tradeoff studies and identification of deficiencies and solution candidates for problem areas. Develops risk and configuration management plans. Supports integration of new workflow management systems. Directs junior or Functional Analyst I efforts. Can serve as liaison between the contractual staff and the customer.

**Minimum Education:**

Bachelor's degree in IT, Management, Business, Administration, or related field.

**Commercial Job Title: HelpDesk Analyst**

**Minimum/General Experience:**

Two (2) years of experience in computer technology environment utilizing interpersonal skills.

**Functional Responsibility:**

Provides support to end users on a variety of issues. Identifies, researches, and resolves technical problems. Responds to telephone calls, email, trouble tickets and personal requests for technical support. Documents, tracks, and monitors the problem to ensure a timely resolution and communication with end users. Familiar with a variety of the field's concepts, practices, and procedures regarding problem/incident identification and documentation, trouble ticket escalation, tiered technical resources, error/problem resolution, and knowledge/database repositories. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complicated tasks. May lead and direct the work of others.

**Minimum Education:**

Associate Degree in related area or comparable experience.

**Commercial Job Title: Middleware Architect**

**Minimum/General Experience:**

Five (5) years of experience with a minimum of three (3) years specialized experience as an architect. Excellent understanding of infrastructure, development processes, scope and requirements processes. Extensive experience with designing technical solutions and data mining.

**Functional Responsibility:**

Designs, implements and supports data warehousing projects. Implements business rules via stored procedures, middleware, or other technologies. Defines user interfaces and functional specifications. Responsible for verifying accuracy of data, and the maintenance and support of the data warehouse. Experienced in database design, particularly in the integration of multiple data sources into a single repository. Experienced in applying data analysis and statistical techniques on large data sets, to develop predictive models that address and targeted problems. Experienced in utilizing data that is multichannel (web, email, direct mail and call center) in origin and application. Ability to perform sophisticated statistical analysis and also interpret the data and communicate results to technical and non-technical audiences.

**Minimum Education:**

Bachelor's Degree in Computer Science, Information Systems, Engineering, Business, Science or other technically related discipline.

**Commercial Job Title: Performance Test Engineer III**

**Minimum/General Experience:**

Six (6) years' of intensive and progressive experience in a computer related field with three years' within the last six calendar years' of intensive and progressive experience in performing software testing for complex to highly complex software hardware applications and/or systems.

**Functional Responsibility:**

Performs analysis of documented user requirements and directs or assists in the design of test plans in support of user requirements for moderately complex-to-complex software/hardware applications. Reviews user application system requirements documentation; designs, defines and documents unit and application test plans; Transforms test plans into test scripts and executes those scripts. May participate in all phases of risk management assessment and software/hardware development under the direction of a Senior Test Engineer. Responsible for ensuring proper execution of test scripts and documentation of test results in test logs or defect tracking systems. Responsible for ensuring that the test designs and documentation support all applicable client, agency or industry standards, time lines and budgets. Responsible for the development of test data to be used in performing the required tests. Responsible that testing

conclusions and recommendations are fully supported by test results, and those project managers are fully informed of testing status and application deviations from documented user requirements. Responsible for/or assists in the analysis of test results, documents conclusions and makes recommendations as supported by such analysis.

**Minimum Education:**

Bachelor's degree from an accredited college or university in computer science, mathematics, or engineering or a mathematics-intensive discipline, or an applicable certificate of training from an accredited institution.

**Commercial Job Title: Program Manager II**

**Minimum/General Experience:**

Ten (10) years experience including complete project development from inception to deployment with a demonstrated ability to provide guidance and direction in tasks of similar scope and complexity.

**Functional Responsibility:**

Serves as the contract manager and administrator over the entire contract effort. Acts as the primary interface and point of contact with Government project authorities and representatives on technical and contract administration issues. Supervises project operations by developing management procedures, planning and directing project execution, monitoring and reporting progress. Manages and controls financial and administrative aspects of the project with respect to contract requirements, enforces work standards, and assigns schedules.

**Minimum Education:**

Bachelor's Degree in a recognized technical, engineering, scientific, managerial, business, or other related discipline. PMP Certification (or equivalent)

**Commercial Job Title: Project Manager**

**Minimum/General Experience:**

Seven (7) years experience including complete project development from inception to deployment with a demonstrated ability to provide guidance and direction in tasks of similar scope and complexity.

**Functional Responsibility:**

Serves as the central point of contact for delivery orders and interfaces with the Contracting Officers Technical Representatives. Establishes and enforces procedures to assure that all tasks are performed in accordance with applicable standards, quality requirements, estimated costs, and schedules. Coordinates development, quality assurance, configuration management, documentation support, software maintenance, and daily supervision of subordinates. Prepares reports and delivers briefings on the status of task assignments to contract management personnel and technical points of contact. Reviews work of subordinates, resolves discrepancies, prioritizes work, and accommodates changes.

**Minimum Education:**

Bachelor's Degree in a recognized technical, engineering, scientific, managerial, business, or other related discipline. PMP certification or equivalent preferred, but not required.

**Commercial Job Title: Rational Jazz System Administrator**

**Minimum/General Experience:**

Three (3) years experience installing and deploying Rational Jazz and other software applications on Windows and/or UNIX-based platforms, Rational Jazz Administration, network administration, Operating System administration, software configurations, and/or performance evaluations.

**Functional Responsibility:**

Administers Rational Jazz and/or other platforms/software to ensure balanced activity and secure environment. Makes recommendations for optimizing system operations. Ability to perform network administration tasks, perform Operation System administration, install hardware and software solutions, and execute performance evaluations.

**Minimum Education:**

Bachelor's degree in Computer science, Information science or related scientific field. Waiver for degree can be allowed with five years experience in this field.

**Commercial Job Title: SAS Administrator**

**Minimum/General Experience:**  
Two (2) years experience installing and deploying software applications on Windows and/or UNIX-based platforms, SAS Administration, network administration, Operating System administration, software configurations, and/or performance evaluations.

**Functional Responsibility:**  
Administers SAS and/or other platforms/software to ensure balanced activity and secure environment. Makes recommendations for optimizing system operations. Ability to perform network administration tasks, perform Operation System administration, install hardware and software solutions, and execute performance evaluations.

**Minimum Education:**  
Bachelor's degree in Computer science, Information science or related scientific field. Waiver for degree can be allowed with five years experience in this field.

**Commercial Job Title: Security Analyst III**

**Minimum/General Experience:**  
Five (5) years of IT experience, with two (2) years of specialized experience in the areas of IT Systems security, cybersecurity, or equivalent.

**Functional Responsibility:**  
Conduct assessments of threats and vulnerabilities, determines deviations from acceptable configurations, enterprise or local policy, assesses the level of risk, and develops and/or recommends appropriate mitigation countermeasures in operational and non-operational situations, including Network Mapping, Vulnerability Scanning, Phishing Assessment, Wireless Assessment, Web Application Assessment, Operating System Security Assessment (OSSA), and Database Assessment.

**Minimum Education:**  
Bachelor's degree in Computer science, Information science or related scientific field. Security+, CASP, or equivalent certification preferred.

**Commercial Job Title: Security Architect**

**Minimum/General Experience:**  
Eight (8) years of IT experience, with three (3) years of specialized experience in the areas of IT Systems security, cybersecurity architecture, or equivalent.

**Functional Responsibility:**  
Designs, develops, engineers, and implements integrated security system solutions that will ensure proprietary/confidential data and systems are protected. Gathers and organizes technical information about an organization's mission goals and needs, existing security products, and ongoing programs in computer security in the strategic design process to translate security and business requirements into technical designs. Configures and validates secure systems; tests security products and systems to detect security weakness. Conducts regular audits to ensure that systems are being operated securely, and computer security policies and procedures are being implemented as defined in security plans. Duties include architecture design, system/network analysis, vulnerability and risk assessments, and security assessment of hardware and software. Performs duties on tasks that require expertise in firewall, cyber, cloud computing, implementation/configuration, physical security analysis of facilities, security assessment/risk analysis, security design of local area networks and wide area networks, security analysis of network operating systems and applications, continuity of operations, planning, policy development and disaster recovery.

**Minimum Education:**  
BS degree in Computer science, Information science or related scientific field. Security+, CASP, or equivalent certification required.

**Commercial Job Title: Security Technical Writer**

**Minimum/General Experience:**  
Five (5) years of experience as a Technical Writer. Knowledge of security standards such as FISMA, SOX, National Institute of Standards and Technology (NIST) guidelines.

**Functional Responsibility:**

Analyzes and documents technical and procedural controls, including implementation statements and SOPs in accordance with the format and structure security documentation such as System Security Plan (SSP).  
Explains in simple language technical ideas and concepts that are difficult for the average reader to understand. Writes technical materials, such as equipment software manual, appendices, or operating and maintenance instructions. Writes white papers, Requests for Proposals, Requests for Information, and authors online content. May assist in layout work Possesses excellent research skills, mastery of written English grammar and syntax, and superior spelling skills. Must demonstrate the ability to write and edit different styles of documents (e.g., persuasive, instructional, informative, blogs, etc.).

**Minimum Education:**

Bachelor’s Degree in English, Liberal Arts, or technical field.

**Commercial Job Title: SharePoint Administrator**

**Minimum/General Experience:**

Four (4) years experience installing and deploying SharePoint and other software applications on Windows and/or UNIX-based platforms, SharePoint or O365 Administration, network administration, Operating System administration, software configurations, and/or performance evaluations.

**Functional Responsibility:**

Administers SharePoint (on premise, O365) to ensure balanced activity and secure environment. Makes recommendations for optimizing system operations. Ability to perform network administration tasks, perform Operation System administration, install hardware and software solutions, and execute performance evaluations.

Configures and manages SharePoint development environments and designs, develops and maintains the target SharePoint architecture.

**Minimum Education:**

Bachelor’s degree in Computer science, Information science or related scientific field. Microsoft certifications desired but not required.

**Commercial Job Title: Software Developer**

**Minimum/General Experience:**

Four (4) years of experience developing software. Knowledge of programming languages and related technologies and development environments. Knowledge of system analysis, design, and or maintenance. Understanding of requirements gathering, design and development of custom applications. Understanding of object-oriented design concepts. Knowledge and experience with different methodologies (e.g., waterfall, agile).

**Functional Responsibility:**

Performs development, design, and programming of applications software. Develops block diagrams and logic flow charts. Translates detailed design into computer software to produce the required product. Prepares required documentation including program-level and technical user-level documentation. Enhances software to reduce operating time or improve efficiency.

**Minimum Education:**

BS degree in Computer science, Information science or related scientific field. Waiver for degree can be allowed with five years experience in this field.

**Commercial Job Title: Software Tester II**

**Minimum/General Experience:**

Two (2) years’ of intensive and progressive experience in a computer related field with one-year experience in performing software testing of simple to moderately complex software hardware applications and/or systems.

**Functional Responsibility:**

Performs formal system testing activities for a particular project or subset of a larger project under supervision of more experienced test personnel. May participate in support of user requirements for simple to moderately complex software/hardware applications under the direction of a Senior Test Engineer. Executes defined test cases and procedures as detailed in the test documentation. Assists with the collection of data and technical information used in the development of test documentation. Assists in the development of test data to be used in performing required tests. Is responsible for documentation of test results in the proper logs and/or tracking systems. May

participate in the development of test scripts and is responsible for ensuring proper execution of those test scripts. Under the direction of more experienced personnel, may be responsible for ensuring that test designs and documentation supports selected client, agency or industry standards, and timelines. Is responsible for ensuring that testing conclusions and recommendations are supported by test results. Assists in the analysis of test results and documents results.

**Minimum Education:**

BS degree in Computer science, Information science or related scientific field. Waiver for degree can be allowed with five years experience in this field.

**Commercial Job Title: Sr. Management Consultant**

**Minimum/General Experience:**

Seven (7) years' of experience in information systems implementation, change management efforts or business process redesign.

**Functional Responsibility:**

Applies advanced skills and experience in systems development, detailed knowledge of business processes, technical background and supervisory skills to implement business solutions. Provides direction to project teams and interacts with clients at the supervisory level. Develops functional and technical information system designs. Supervises junior and mid-level consultants in the development of software designs, computer programming, system testing or training curricula. Leads business process redesign teams in the development of new business process architectures. Designs training programs for information systems users. Participates in quality reviews to ensure work complies with specified standards. Develops team work plans. Performs workflow analyses. Define information systems requirements. Assists in project budget preparation

**Minimum Education:**

BS degree in Computer science, Information science or related scientific field. Waiver for degree can be allowed with five years experience in this field.

**Commercial Job Title: Systems Engineer II**

**Minimum/General Experience:**

Two (2) years specialized experience, which includes analysis, design and installation of computer hardware and software; analysis and installation of application and network systems. It also includes use of engineering documentation, network configuration and topologies. General experience includes increasing responsibilities in the technical field.

**Functional Responsibility:**

Analyzes information requirements. Evaluates analytically and systematically problems of workflow and workload. Develops block diagrams and logic flow charts. Translates detailed design into computer configurations. Designs and integrates software and hardware configurations to meet the objectives and requirements. Tests, debugs, and refines computer product to produce the desired results.

**Minimum Education:**

Bachelor's Degree in Computer Science, Information Systems Engineering, Business or other related discipline, a minimum of two (2) years' specialized experience.