FEDERAL SUPPLY SERVICE - AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICE LIST

ALEX

ALEX-ALTERNATIVE EXPERTS, LLC

8390 W. MAIN ST, SUITE B
MARSHALL, VA 20115
(P) 703-502-9700 / (F) 703-502-9705
WWW.ALEXINC.COM

Multiple Award Schedule
Contract Number: 47QTCA18D0041
SIN 54151S: Information Technology Professional Services
Contract Period: December 14, 2017, through December 13, 2022

Price list current as of Modification #PS-0013 effective October 18, 2021

CORPORATE INFORMATION

Points of Contact:
Monica Joseph – Managing Member
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Sarah Holman – Contracts Manager
(p) 703-547-1665 / (f) 703-502-9335
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Orders: gsaorders@alexinc.com

Business Size: Small Business

Business Information:
FED ID#:   65-1306516
DUNS #:   800579554
CAGE Code: 0LAR5
Facility Security Clearance: Top Secret

Certifications:
- Minority Owned Business (Hispanic American)
- Woman Owned Small Business

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 for GSA Advantage! is: GSAAdvantage.gov.

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

CUSTOMER INFORMATION

1.a	**Awarded SINs**	SIN 54151S: Information Technology Professional Services
1.b	**Identification of the lowest priced model number and price for each SIN**	Please reference "Labor Categories and Pricing" on page 3
1.c	**Labor Category Descriptions**	Please reference "Labor Category Descriptions" section
2	**Maximum Order**	$500,000.00
3	**Minimum Order**	$100.00
4	**Geographic Coverage**	48 contiguous States, Washington, DC, and Alaska
5	**Point(s) of Production**	N/A
6	**Discounts**	Government Net Prices
7	**Quantity Discounts**	None
8	**Prompt Payment Terms**	0%, Net 30 Days
9	**Foreign Items**	N/A
10.a	**Time of Delivery**	To be negotiated at the task order level
10.b	**Expedited Delivery**	To be negotiated at the task order level
10.c	**Overnight and 2-day delivery**	To be negotiated at the task order level
10.d	**Urgent Requirements**	To be negotiated at the task order level
11	**FOB Terms**	Destination
12.a	**Ordering Address**	ALEX-Alternative Experts, LLC 8390 W. Main St, Suite B Marshall, VA 20115 gsaorders@alexinc.com
12.b	**Ordering Procedures**	For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPAs) are found in Federal Acquisition Regulation (FAR) 8.405-3.
13	**Payment Address**	ALEX-Alternative Experts, LLC P.O. Box 434 Marshall, VA 20116
14	**Warranty Provisions**	Standard Commercial Warranty
15	**Export packing charges**	N/A
16	**Terms and conditions of rental, maintenance, and repair**	N/A
17	**Terms and conditions of installation**	N/A
18.a	**Terms and conditions of repair parts**	N/A
18.b	**Terms and conditions for any other services**	N/A
19	**List of service and distribution points**	N/A
20	**List of participating dealers**	N/A
21	**Preventive maintenance**	N/A
22.a	**Special attributes**	N/A
22.b	**Section 508**	N/A
23	**Unique Entity Identifier (UEI) Number**	800579554
24	**SAM Registration**	ALEX-Alternative Experts, LLC maintains an active and current registration in www.SAM.gov.

LABOR CATEGORIES AND PRICING

SIN 54151S Information Technology Professional Services

LABOR CATEGORY	GSA PRICE PER HOUR*
Application Administrator I	$105.61
Application Administrator II	$129.38
Configuration Manager II	$89.59
Configuration Manager IV	$143.69
Data Analyst I	$86.74
Data Analyst II	$95.75
Data Analyst III	$107.90
Data Engineer I	$89.72
Data Engineer II	$120.60
Data Science SME	$178.71
Data Scientist I	$66.50
Data Scientist III	$149.65
Database Architect/Developer	$115.29
Database Engineer II	$102.02
DevOps Engineer I	$134.57
DevOps Engineer II	$165.13
Documentation Specialist III	$94.24
Electronic Records Specialist II	$69.23
Full Stack Python Developer I	$102.25
Full Stack Python Developer II	$111.43
Help Desk Support Specialist I	$63.50
Information Security Engineer	$130.84
IT Analyst I	$85.50
IT Analyst III	$107.68
IT Program Manager II	$204.05
IT Project Manager	$124.27
IT SME II	$131.83
IT Technician I	$52.89
IT Technician III	$94.12
IT Training Specialist I	$62.37
Jr. Programmer	$111.41
Knowledge Management Specialist I	$80.03
Migration Architect	$258.44
Migration SME II	$197.75
Migration SME III	$236.21
Network Engineer II	$104.80
Programmer	$144.50
Software Engineer I	$89.33
Software Engineer II	$107.62
Software Engineer III	$130.29
Systems Administrator I	$84.07
Web Developer	$75.42

Prices Shown Herein are Net (discount deducted)

Application Administrator I
Functional Responsibility: Works with application developers to deploy new custom-built and COTS applications. Supports new and existing applications in the production environment. Contributes to documenting and adhering to technical policies and procedures. Participates in maintenance activities and procedures. Coordinates, monitors, and provides status updates for day to day IT operational concerns to managers, customers, and program stakeholders.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, or technical disciplines. Requires one (1) year of experience participating in related projects.

Application Administrator II
Functional Responsibility: Works with application developers to deploy new custom-built and COTS applications. Supports new and existing applications in the production environment. Contributes to documenting and adhering to technical policies and procedures. Participates in maintenance activities and procedures. Coordinates, monitors, and provides status updates for day to day IT operational concerns to managers, customers, and program stakeholders.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, or technical disciplines. Requires three (3) years of progressive experience participating in related projects.

Configuration Manager II
Functional Responsibility: Provides configuration management planning. Describes provisions for configuration identification, change control, configuration status accounting, and configuration audits. Regulates the change process so that only approved and validated changes are incorporated into product documents and related software.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, or technical disciplines. Requires three (3) years of progressive experience participating in related projects.

Configuration Manager IV
Functional Responsibility: Develops the Configuration Management plan. Reports progress based on change requests. Understands configuration management principles. Responsible for the execution of the CM process, which includes operating the defined and agreed process, ensuring it interfaces with all other relevant IT processes, reviewing the effectiveness and efficiency of the process, performing process audits and managing the process improvement cycle. Audits configuration management activities by validating results against the baseline. Reports findings to change manager for final review and recommendation of revisions as appropriate.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, or technical disciplines. Requires seven (7) years of progressive experience participating in related projects.

Data Analyst I
Functional Responsibility: Collects, reviews, and analyzes technical data sets. Acquires data from primary or secondary data sources. Identifies, analyzes, and interprets trends or patterns in data sets. Reviews raw data sets to identify target entities for follow on analysis. Locates and defines new data-related process improvement opportunities. Performs data mining using state-of-the-art methods. Participates in the testing and evaluation of new technologies.

Assists in collection and analysis of program performance data. Interprets data and analyze results using statistical techniques to support data-based decision-making.

Minimum Education and Years of Experience: Bachelor's degree in Science, Technology, Engineering, Mathematics, or a related field. Requires two (2) years of related experience.

Data Analyst II
Functional Responsibility: Collects, reviews, and analyzes technical data sets. Acquires data from primary or secondary data sources. Identifies, analyzes, and interprets trends or patterns in data sets. Reviews raw data sets to identify target entities for follow on analysis. Locates and defines new data-related process improvement opportunities. Performs data mining using state-of-the-art methods. Participates in the testing and evaluation of new technologies. Assists in collection and analysis of program performance data. Interprets data and analyzes results using statistical techniques to support data-based decision-making. Strong written and oral communications skills are used to compile, analyze, and synthesize large volumes of complex data and simplify it. Communicates analysis via writing and oral briefings. Utilizes MS Office and MS Excel's advanced features for analytics.

Minimum Education and Years of Experience: Bachelor's degree in Science, Technology, Engineering, Mathematics, or a related field. Requires four (4) years of related experience.

Data Analyst III
Functional Responsibility: Collects, reviews, and analyzes technical data sets. Acquires data from primary or secondary data sources. Identifies, analyzes, and interprets trends or patterns in data sets. Reviews raw data sets to identify target entities for follow on analysis. Locates and defines new data-related process improvement opportunities. Performs data mining using state-of-the-art methods. Participates in the testing and evaluation of new technologies. Assists in collection and analysis of program performance data. Interprets data and analyzes results using statistical techniques to support data-based decision-making. Strong written and oral communications skills are used to compile, analyze, and synthesize large volumes of complex data and simplify it. Communicates analysis via writing and oral briefings. Utilizes MS Office and MS Excel's advanced features for analytics.

Minimum Education and Years of Experience: Bachelor's degree in Science, Technology, Engineering, Mathematics, or a related field. Requires eight (8) years of related experience.

Data Engineer I
Functional Responsibility: Contributes to building data pipelines to support the data science team including ingesting data from various sources such as web pages, application programming interfaces (APIs), and databases at scheduled times. Supports the aggregation and transformation of ingested data to meet the requirements of downstream tasks. Contributes to database schema to store the clean data in an efficient and reliable fashion. Supports development of the API for internal teams to conveniently access the stored data. Monitors and reports on the health and performance of the data pipeline.

Minimum Education and Years of Experience: Bachelor's degree in Science, Technology, Engineering, Mathematics, or a related field. Requires two (2) years of related experience

Data Engineer II
Functional Responsibility: Contributes to building data pipelines to support the data science team including ingesting data from various sources such as web pages, application programming interfaces (APIs), and databases at scheduled times. Supports the aggregation and transformation of ingested data to meet the requirements of downstream tasks. Contributes to database schema to store the clean data in an efficient and reliable fashion. Supports development of

the API for internal teams to conveniently access the stored data. Monitors and reports on the health and performance of the data pipeline.

Minimum Education and Years of Experience: Bachelor's degree in Science, Technology, Engineering, Mathematics, or a related field. Requires four (4) years of related experience.

Data Science SME
Functional Responsibility: Leads a team building Artificial Intelligence (AI) Natural Language Processing (NLP) models using Machine Learning (ML) and Deep Learning (DL) technologies. Understands the situational application of different sources of data and types of metrics and applies expertise in AI/ML to solve specific problems. Data Science languages may include Python, R and Excel VBA. Experienced with database architectures and structures including SQL, NoSQL and MS Access Databases.

Minimum Education and Years of Experience: Master's degree in Computer Science, Engineering, or a related technical field. Requires twelve (12) years of related experience.

Data Scientist I
Functional Responsibility: Participates in developing Artificial Intelligence (AI) Natural Language Processing (NLP) models using Machine Learning (ML) and Deep Learning technologies to provide targeted analytics solutions through techniques such as modeling, data visualization, data system development. Knowledgeable about Data Science languages and database architectures and structures.

Minimum Education and Years of Experience: Bachelor's degree Computer Science, Engineering, or a related technical field. Requires two (2) years of related experience.

Data Scientist III
Functional Responsibility: Leads the development of Artificial Intelligence (AI) Natural Language Processing (NLP) models using Machine Learning (ML) and Deep Learning technologies. to provide targeted analytics solutions through techniques such as modeling, data visualization, data system development. Knowledge and familiarity with numerous Data Science languages and database architectures and structures.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Engineering, or a related technical field. Requires eight (8) years of related experience.

Database Architect/Developer
Functional Responsibility: Designs and builds relational databases for data storage or processing. Develops strategies for warehouse implementation, data acquisition, and archive recovery. Cleans and maintains the database by removing and deleting old data. May evaluate new data sources for adherence to the organization's quality standards and ease of integration.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, or technical disciplines. Requires four (4) years of progressive experience in participating in related projects.

Database Engineer II
Functional Responsibility: Designs, models, documents, and guides the logical and conceptual relationship of data and database changes for complex applications. Analyzes needs and requirements of existing and proposed systems, and develops technical, structural, and organizational specifications. May create standards and/or perform modeling

to monitor and enhance capacity and performance.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Engineering, or a related technical field. Requires four (4) years of related experience.

DevOps Engineer I

Functional Responsibility: Provides development pipeline support and infrastructure management across a cutting-edge Artificial Intelligence Machine Learning/Deep Learning (AI ML/DL) tool set. Understands the Software Development lifecycle and understands various automation tools for developing digital Continuous Integration/ Continuous Delivery (CI/CD) pipelines. Responsible for achieving automation and orchestration of tools. Ensures the quality of the product and monitors security and health of the product.

Minimum Education and Years of Experience: Bachelor's degree in Engineering, Computer Science, or a related technical field. Requires two (2) years of related experience.

DevOps Engineer II

Functional Responsibility: Provides development pipeline support and infrastructure management across a cutting-edge Artificial Intelligence Machine Learning/Deep Learning (AI ML/DL) tool set. Understands the Software Development lifecycle and understands various automation tools for developing digital pipelines (Continuous Integration/ Continuous Delivery (CI/CD) pipelines). Responsible for achieving automation and orchestration of tools. Ensures the quality of the product and monitors security and health of the product.

Minimum Education and Years of Experience: Bachelor's degree in Engineering, Computer Science, or a related technical field. Requires four (4) years of related experience.

Documentation Specialist III

Functional Responsibility: Responsible for preparing and/or maintaining systems, programming, and operations documentation, procedures, and methods including user manuals and reference manuals related to IT. Maintains a current internal documentation library. Provides or coordinates special documentation services as required. Competent to work at high level of all phases of documentation. May act as project leader.

Minimum Education and Years of Experience: Associates degree. Requires five (5) years of progressive experience in participating in related projects.

Electronic Records Specialist II

Functional Responsibility: Performs day-to-day records management duties. Develops long range objectives, plans and records management feasibility studies for overall program and specialized components of the program. Identifies procedures and methodologies that improve the effectiveness and efficiency in the life cycle management (creations, retention, maintenance, processing, use, access, release, safeguarding, declassification, and final disposition) of records and documentation. Reviews and approves records disposition actions. Provide authoritative guidance on, and technical oversight over, compliance with records and information management laws. Lead projects to strengthen compliance with records and information management laws. Independently monitor, track, and assess compliance with records and information management program(s). relevant specialized experience in records and document management program implementation and supporting information technology. In depth knowledge of electronic documents and tracking tools, and Records Management (RM) support systems such as ARCIS and ERA. Researches, evaluates, interprets, and applies Federal RM laws, regulations, policies, and procedures accurately and effectively.

Minimum Education and Years of Experience: Bachelor's degree in management or business fields. Eight (8) years of

related experience.

Full Stack Python Developer I
Functional Responsibility: Using Python, designs, codes, tests and deploys software in all layers of the development life cycle and provides the necessary documentation. Identifies and implements system improvements. Builds operational tools using Agile and Scrum methods. Analyzes the needs and the environment to ensure the solution considers the current architecture and operating environment as well as future functionality and enhancements. Performs programming and software development. Performs analysis, design, development, implementation, testing, maintenance, quality assurance, troubleshooting and/or upgrading of software systems. Utilizes data engineering and metadata processing experience.

Minimum Education and Years of Experience: Bachelor's degree in computer science, engineering, or information systems or related analytical, scientific, or technical fields. Requires two (2) years of related experience.

Full Stack Python Developer II
Functional Responsibility: Using Python, designs, codes, tests and deploys software in all layers of the development life cycle and provides the necessary documentation. Identifies and implements system improvements. Builds operational tools using Agile and Scrum methods. Analyzes the needs and the environment to ensure the solution considers the current architecture and operating environment as well as future functionality and enhancements. Performs analysis, design, development, implementation, testing, maintenance, quality assurance, troubleshooting and/or upgrading of software systems. Utilizes data engineering and metadata processing experience.

Minimum Education and Years of Experience**:** Bachelor's degree in computer science, engineering, or information systems or related analytical, scientific, or technical fields. Requires four (4) years of related experience.

Help Desk Support Specialist I
Functional Responsibility: Provides first contact and incident resolution to users with hardware, software, and application problems. Includes both customer telephone support as well as electronically submitted requests. Respond to queries either in person or over the phone. Install, modify, and repair computer hardware and software both in person and through the use of remote access tools. Provides end-user software and hardware troubleshooting. Applies basic diagnostic techniques to identify problems, investigate causes, and recommend solutions. Participates in the administration of e-mail, Microsoft office, etc. Maintains current knowledge of relevant technology as assigned. Identify, investigate, resolve, and follow-up problems brought to the helpdesk by users.

Minimum Education and Years of Experience: Associates degree. Requires two (2) years of related experience.

Information Security Engineer
Functional Responsibility: Establishes and satisfies complex IT system-wide information security requirements based upon the analysis of user, policy, regulatory, and resource demands. Supports customers at the highest levels in the development and implementation of doctrine and policies. Applies know-how to government and commercial common user systems, as well as to dedicated special purpose systems requiring specialized security features and procedures.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, or technical disciplines. Requires three (3) years of progressive experience participating in related projects.

IT Analyst I
Functional Responsibility: Provides technical support to other IT analysts to ensure that information systems, products, and services meet minimum organizational standards and end-user requirements. Performs IT system workflow analysis and recommends quality improvements. Analytically and systematically evaluates problems of workflows, organization, and planning, and develops appropriate corrective action. Documents and works to resolve problems. Prepares technical analysis reports and other related technical documentation. Supports more senior analysts on their projects where necessary.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, or technical disciplines. Requires one (1) years of progressive experience participating in related projects.

IT Analyst III
Functional Responsibility: Applies experience to the system development life cycle management activities of complex IT system deployments. Leads technical working groups. Responsible for integrating and implementing approved task and project recommendations. Establishes system development and integration methodologies and standards. Develops user requirements and ensures that solutions are consistent with customer's strategic goals. Applies process improvement practices to reengineer IT processes, principles and methodologies. Establishes and maintains security, integrity, and IT continuity controls and documentation. Reviews deliverables of junior IT Analyst staff.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, or technical disciplines. Requires five (5) years of progressive experience participating in related projects.

IT Program Manager II
Functional Responsibility: Provides IT program and/ or project management support to Mid-to-large size efforts. Can manage more complex IT programs with no supervision. Serves as focal point-of-contact with client regarding program activities; ensuring that all required resources including manpower, production standards, computer time, and facilities are available for program implementation; managing program consisting of multiple IT projects including project identification, design, development, and delivery. Provide technical advice to junior staff to assist with problem resolution. Identifies and mitigates risk to the program. Performs day-to-day management of overall contract support operations, possibly involving multiple projects and groups of personnel at multiple locations.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, or technical disciplines. Requires five (5) years of progressive experience participating in related projects.

IT Project Manager
Functional Responsibility: Responsible for all aspects of the development and implementation of assigned IT projects and provides a single point of contact for those projects. Takes projects from original concept through final implementation. Interfaces with all areas affected by the project including end users, computer services, and client services. Defines project scope and objectives. Develops detailed work plans, schedules, project estimates, resource plans, and status reports. Conducts project meetings and is responsible for project tracking and analysis. Ensures adherence to quality standards and reviews project deliverables. Manages the integration of vendor tasks and tracks and reviews vendor deliverables. Provides technical and analytical guidance to project team. Recommends and takes action to direct the analysis and solutions of problems.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems,

Engineering, Business, Social Science, or other related analytical, scientific, or technical disciplines. Requires five (5) years of progressive experience participating in related projects.

IT SME II
Functional Responsibility: Provides technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, and implementation advice on exceptionally complex problems that necessitate high-level knowledge of the subject matter for effective implementation. Participates as needed in all phases of software development with emphasis on the planning, analysis, modeling, simulation, testing, integration, documentation, and presentation phases.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, or technical disciplines. Requires eight (8) years of progressive experience participating in related projects.

IT Technician I
Functional Responsibility: Under general supervision, responds to and diagnoses IT problems through discussions with users. Includes problem recognition, research, isolation, and resolution steps. Typically is able to resolve less complex problems immediately, while more complex problems are assigned to senior level support. May involve use of problem management database and help desk systems.

Minimum Education and Years of Experience: Associates degree. Requires one (1) year of experience in a related field.

IT Technician III
Functional Responsibility: Under general direction, responsible for ensuring the timely process through which problems are controlled. Includes problem recognition, research, isolation, resolution, and follow-up steps. Requires experience and understanding of MIS environment. Typically involves use of problem management database and help desk system. May provide guidance/training for less-experienced personnel.

Minimum Education and Years of Experience: Associates degree. Requires three (3) years of experience in a related field.

IT Training Specialist I
Functional Responsibility: Reads all relevant project documents; reviews all available training materials, policies and procedures, and standards of conduct and behavior. Collaborates with Training Manager and senior training staff to design/deliver technical training sessions. Visits training site and coordinates with relevant onsite administrators for the delivery and facilitation of technical training design and implementation. Participates in the training of trainers, develops session designs, and co-facilitates onsite training sessions. Follows principles of hands-on experiential learning in designing technical training and uses agency adopted design and presentation formats throughout the project. Develops working relationships with training and program management staff, where training takes place. Collects, records and documents recommended improvements to training and application enhancements; training materials/session designs, and audio-visual resources. Builds teamwork among fellow training staff and supports training team efforts and decisions. Develops and/or contributes to the development of and submits periodic reports, submits technical training reports, documenting all lessons and activities for use in the future. Contributes to deployment, setup, configuration, and operation of training equipment. Recommends improvements to instructional materials and methods in technical training. Follows policies, procedures, and guidelines for a professional trainer/staff behavior.

Minimum Education and Years of Experience: Bachelor's degree in Communications Technology, Adult Learning,

Business, Computer Science, or Instructional Design, or equivalent work experience. Requires five (5) years of related experience.

Jr. Programmer
Functional Responsibility: Under direct supervision, modifies existing software as well as creates special-purpose software to ensure efficiency and integrity between systems and applications. Creates and/or maintains operating systems, communications software, database packages, compilers, assemblers, and utility programs.

Minimum Education and Years of Experience: Associates Degree. Requires three (3) years of progressive experience participating in related projects.

Knowledge Management Specialist I
Functional Responsibility: Participates in Knowledge Management (KM) and Change Management assessments, planning, and training. Provides recommendations regarding creation, design, and maintenance of web pages, workflows, KM sites, and solutions. Assists with design and fundamental management of portal sites, including sub-sites. Provides technical guidance, advice and assistance based on policies and industry best practices. Performs portal management to ensure current, relevant, and accurate information. Monitors information/data storage location (such as SharePoint) functionality to ensure workflows are employed correctly. Performs ongoing research to determine site's current and future capabilities and liaises regarding site migration when necessary. Provides support to users, including collaborating on training materials, such as reference guides, computer-based tutorials, and briefs. Documents and creates KM processes and Standard Operating Procedures as required.

Minimum Education and Years of Experience: Associates Degree. Requires three (3) years of related experience.

Migration Architect
Functional Responsibility: Design and implement a successful deployment of IT solutions that meet customer objectives. Apply understanding of a wide range of enterprise infrastructure and cloud technologies. Evaluate customer requirements and objectives to build architectural solutions that meet customer application and technology requirements. Explore and implement solutions to integrate legacy and cutting-edge technologies into cloud environments. Support the full life cycle of cloud-based solutions including tools, technologies, and best practices for development, deployment, and maintenance of cloud hosted services. Interpret environment characteristics data, perform necessary analysis, and transcribe to required formats.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, language arts, or technical disciplines. Requires five (5) years of progressive experience participating in related project.

Migration SME II
Functional Responsibility: Provide thought and technical design leadership for cloud services, providers, and platforms. Act as a change agent for technologies and supporting processes to maximize results measured by performance and availability, business agility, technology freshness, and cost optimization. Lead cloud application architecting sessions with business partners evaluating tradeoffs between design, risk, and technology. Execute prototypes and technical feasibility assessments for cloud solutions. Apply advanced technical knowledge and skills in developing solutions or problem solving where complexity, innovation and technical expertise are required.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, language arts, or technical disciplines. Requires eight (8) years of progressive experience participating in related project.

Migration SME III
Functional Responsibility: Provide thought and technical design leadership for cloud services, providers, and platforms. Act as a change agent for technologies and supporting processes to maximize results measured by performance and availability, business agility, technology freshness, and cost optimization. Lead cloud application architecting sessions with business partners evaluating tradeoffs between design, risk, and technology. Execute prototypes and technical feasibility assessments for cloud solutions. Apply advanced technical knowledge and skills in developing solutions or problem solving where complexity, innovation and technical expertise are required.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, language arts, or technical disciplines. Requires ten (10) years of progressive experience participating in related project.

Network Engineer II
Functional Responsibility: Monitors and manages network/telecommunications hardware. Performs system administration tasks such as network and/or system troubleshooting. Installs/maintains patching operating systems and applications and execution of various scripts. May install/maintain Cloud architectures in Cloud computing platforms. Analyzes and provides technical support for data communications network or group. Assists in the maintenance and configuration of Network equipment. Configures, ships and turns-up managed equipment for remote sites. Assists in the development and implementation of cloud architectures/scale out services. Actively monitors and maintains existing managed equipment for remote sites. Identifies technical problems and suitable solutions. Adheres to policies and procedures.

Minimum Education and Years of Experience: Bachelor's degree in a technical discipline (Computer Science, Information Systems, Networking, Information Technology, Computer Information Systems, Engineering, or related field). Requires four (4) years of related experience.

Programmer
Functional Responsibility: Reviews, analyzes, and modifies programming systems including encoding, testing, debugging and installing to support an organization's business applications. Gathers requirements from users and creates specifications and develops code. Designs and writes codes to support existing application.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, language arts, or technical disciplines. Requires two (2) years of progressive experience participating in related project.

Software Engineer I
Functional Responsibility: Designs and develops application software and systems. Collaborates with hardware engineers in the planning, design, development, and utilization of data processing systems for software. Determines computer user needs, analyzes system capabilities to resolve problems on program intent, output requirements, input data acquisition, programming techniques and controls. Designs and develops compilers and assemblers, utility programs, and operating systems.

Minimum Education and Years of Experience: Bachelor's degree in Engineering, Computer Science, or a related technical field. Requires two (2) years of related experience.

Software Engineer II
Functional Responsibility: Designs and develops application software and systems. Collaborates with hardware engineers in the planning, design, development, and utilization of data processing systems for software. Determines

computer user needs, analyzes system capabilities to resolve problems on program intent, output requirements, input data acquisition, programming techniques and controls. Designs and develops compilers and assemblers, utility programs, and operating systems.

Minimum Education and Years of Experience: Bachelor's degree in Engineering, Computer Science, or a related technical field.   Requires four (4) years of related experience.

Software Engineer III

Functional Responsibility: Architects, designs, and implements data and microservices that support the platform. Provides technical leadership on large-scale enhancements, resolves issues, performs appropriate level of research to determine solutions, and prioritizes and suggest technical strategies to achieve the long-term objectives. Creates and analyzes software specifications, and researches, designs, documents, modifies, and supports software throughout the development life cycle. Provides solutions that create value while minimizing negative impact through defects, downtime, or performance degradation. Reviews requirements, generates architecture documents, provides rough order of magnitude estimates, and assists with implementation and unit, integration, and capacity testing. Shares architecture formally and informally with team, ensuring design consistency during development. Writes architecture documentation. Provides technical guidance to other team members. Maintains knowledge of, and proposes, technical advances based on newer technologies. Evaluates hardware and capacity needs related to proposed solutions. Develops programming guidelines/standards and makes them accessible to other programmers.

Minimum Education and Years of Experience: Bachelor's degree in Engineering, Computer Science, or a related technical field.   Requires eight (8) years of related experience.

Systems Administrator I

Functional Responsibility: Under general supervision, responsible for installing, configuring, and maintaining operating system workstations and servers, including web servers, in support of business processing requirements. Performs software installations and upgrades to operating systems and layered software packages. Schedules installations and upgrades and maintains them in accordance with established IT policies and procedures. Monitors and tunes the system to achieve optimum performance levels. Ensures workstation/server data integrity by evaluating, implementing, and managing appropriate software and hardware solutions. Ensures data/media recoverability by implementing a schedule of system backups and database archive operations. Supports media management through internal methods and procedures or through offsite storage and retrieval services. Develops and promotes standard operating procedures. Conducts routine hardware and software audits of workstations and servers to ensure compliance with established standards, policies, and configuration guidelines. May develop and maintains a comprehensive operating system hardware and software configuration database/library of all supporting documentation.

Minimum Education and Years of Experience: Bachelor's degree in Computer Science, Information Systems, Engineering, Business, Social Science, or other related analytical, scientific, language arts, or technical disciplines. Requires three (3) years of progressive experience participating in related project.

Web Developer

Functional Responsibility: Combines front-end web development with back-end programming skills and day-to-day website management. Develops responsive, mobile-first front-end web templates. Develops server-side functionality. Ensures sites maintain optimum performance and security; works with systems administrator to ensure consistent uptime. Creates automated scripts to perform site maintenance tasks such as upgrades and data migration. Provides clear and robust technical documentation for all work performed. Serves as an internal resource for on-the-job training and support to project staff on all aspects of day-to-day site management. Enforces clear and consistent site

governance procedures across all project sites. Supports the development and implementation of enterprise technology solutions, such as content management systems, collaborative websites, or social networking tools. Creates responsive, mobile-first, standards-compliant front-end web templates. Communicates technical knowledge to both technical and non-technical audiences.

Minimum Education and Years of Experience: Bachelor's degree in business, design, communication, marketing, or related field. Requires two (2) years of related experience.

Experience Equivalency:
ALEX applies the industry standard that 1½ years professional experience is equivalent to 1 year of college. Due to the availability or limitation of education, occasionally substitution of experience as referenced below for a professional labor type with additional years of experience will be provided to the Federal Agency when responding to their requirements and it is solely the acquiring agency's determination, if the substitution is considered acceptable prior to an award.

Degree	Associates Degree	Bachelor's Degree	Master's Degree	PhD
Years of Experience	3 years of related professional experience	6 years of related professional experience	9 years of related professional experience	12 years of related professional experience