

## 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).

## Multiple Award Schedule

FSC Group: **Professional Services**

FSC Class: **F999**

Contract number: **47QSWA19D006S**

For more information on ordering from Federal Supply Schedules go to the GSA Schedules page at [GSA.gov](http://GSA.gov).

Contract period: **May 8, 2019 – May 7, 2024 (Energy Savings Performance Contract (ESPC))**

**May 5, 2019 – May 4, 2024 (Information Technology Services)**

AECOM Technical Services, Inc.  
300 South Grand Ave Ste 1100  
Los Angeles, CA 90071

<https://aecom.com/contract-vehicles/gsa-schedules/>

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Business size: Other than Small

Price list current as of Modification #PS-A826, effective February 9, 2021  
Prices Shown Herein are Net (discount deducted)

## CUSTOMER INFORMATION:

### 1a. Table of Awarded Special Item Number(s) with appropriate cross-reference to SIN Codes

#### Facilities – Facilities Solutions

[334512 Total Solution Support Products for Facilities Management Systems](#) 334512 includes products to support facilities management systems, such as repair parts, surveillance systems, security functions, energy functions, building comfort systems, etc. This SIN is used for ESPC contracts and the use of the DoE ENABLE Program

NOTE: Subject to Cooperative Purchasing

#### Information Technology - IT Solutions

[518210C Cloud and Cloud-Related IT Professional Services](#) 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 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 labor categories and/or fixed price solutions (e.g. migration services, etc.) 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.

NOTE: Subject to Cooperative Purchasing

[541370GEO Earth Observation Solutions](#) 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, basemaps (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

#### Information Technology – IT Software

[54151 Software Maintenance Services](#) Software maintenance services creates, designs, implements, and/or integrates customized changes to software that solve one or more problems and is not included with the price of the software. Software maintenance services includes person-to-person communications regardless of the medium used to communicate by telephone support, online technical support, customized support, and/or technical expertise which are charged commercially.

NOTE: Subject to Cooperative Purchasing

#### Information Technology - IT Services

[54151S Information Technology Professional Services](#) 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

#### Information Technology - IT Training

[611420 Information Technology Training](#) Includes training on hardware, software, cloud, and other applicable systems.

NOTE: Subject to Cooperative Purchasing

## Miscellaneous - Complementary Special Item Numbers (SINs)

Order-Level Materials (OLM) OLMs are supplies and/or services acquired in direct support of an individual task or delivery order placed against a Schedule contract or BPA. OLM pricing is not established at the Schedule contract or BPA level, but at the order level. Since OLMs are identified and acquired at the order level, the ordering contracting officer (OCO) is responsible for making a fair and reasonable price determination for all OLMs.

OLMs are procured under a special ordering procedure that simplifies the process for acquiring supplies and services necessary to support individual task or delivery orders placed against a Schedule contract or BPA. Using this new procedure, ancillary supplies and services not known at the time of the Schedule award may be included and priced at the order level.

### **OLM SIN-Level Requirements/Ordering Instructions:**

OLMs are:

- Purchased under the authority of the FSS Program
- Unknown until an order is placed
- Defined and priced at the ordering activity level in accordance with GSAR clause 552.238-115 Special Ordering Procedures for the Acquisition of Order-Level Materials. (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)
- Only authorized for use in direct support of another awarded SIN.
- Only authorized for inclusion at the order level under a Time-and-Materials (T&M) or Labor-Hour (LH) Contract Line Item Number (CLIN)
- Subject to a Not to Exceed (NTE) ceiling price

OLMs are not:

- Open Market Items
- Items awarded under ancillary supplies/services or other direct cost (ODC) SINs (these items are defined, priced, and awarded at the FSS contract level)

OLM Pricing:

- Prices for items provided under the Order-Level Materials 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%.

**1b.** Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract. This price is the Government price based on a unit of one, exclusive of any quantity/dollar volume, prompt payment, or any other concession affecting price. Those contracts that have unit prices based on the geographic location of the customer, should show the range of the lowest price, and cite the areas to which the prices apply.

**1c.** If the Contractor is proposing hourly rates, a description of all corresponding commercial job titles, experience, functional responsibility and education for those types of employees or subcontractors who will perform services shall be provided. If hourly rates are not applicable, indicate “Not applicable” for this item.

2. Maximum order: **No Maximum**
3. Minimum order: **\$2,000**

4. Geographic coverage (delivery area). **Domestic and Overseas**
5. Point(s) of production (city, county, and State or foreign country). **Same as Company Address**
6. Discount from list prices or statement of net price. **Government Net Prices, on IT Services 1% Discount for DOD**
7. Quantity discounts. **NA**
8. Prompt payment terms. Information for Ordering Offices: Prompt payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions. **Net 30 days**
9. Foreign items (list items by country of origin). **None**
- 10a. Time of delivery. (Contractor insert number of days.) **To Be Determined at the Task Order level**
- 10b. Expedited Delivery. Items available for expedited delivery are noted in this price list. **Contact Contractor**
- 10c. Overnight and 2-day delivery. **Contact Contractor**
- 10d. Urgent Requirements. **Contact Contractor**
11. F.O.B. point(s). **Destination**
- 12a. Ordering address(es). **Same as Contractor**
- 12b. 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.
13. Payment address(es).

**Regular Mail (USPS):**

AECOM Technical Services, Inc.  
1178 Paysphere Circle  
Chicago, IL 606774

**Electronic Funds Transfer / ACH Payment:**

AECOM Technical Services, Inc.  
Bank of America, Bldg. D  
2000 Clayton Rd.  
Concord, CA 94520-2425

**Acct:** 5800937020  
**AVA Routing:** 071000039

**Wire Transfer:**

AECOM Technical Services, Inc.  
Bank of America  
100 W. 33<sup>rd</sup> Street  
New York, NY 10001

**Acct:** 5800937020  
**AVA Routing:** 026009593  
**SWIFT Code:** BOFAUS3N

14. Warranty provision. **Standard Commercial Warranty Terms & Conditions**
15. Export packing charges, if applicable. **Not Applicable**
16. Terms and conditions of rental, maintenance, and repair (if applicable). **Not Applicable**
17. Terms and conditions of installation (if applicable). **TBD by task order**
- 18a. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable). **Not Applicable**
- 18b. Terms and conditions for any other services (if applicable). **Not Applicable**
19. List of service and distribution points (if applicable). **Not Applicable**
20. List of participating dealers (if applicable). **Not Applicable**

- 21.** Preventive maintenance (if applicable). **Not Applicable**
- 22a.** Special attributes such as environmental attributes (e.g., recycled content, energy efficiency, and/or reduced pollutants). **Not Applicable**
- 22b.** If applicable, indicate that Section 508 compliance information is available on Electronic and Information Technology (EIT) supplies and services and show where full details can be found (e.g. contractor's website or other location.) The EIT standards can be found at: [www.Section508.gov/](http://www.Section508.gov/). **Not Applicable**
- 23.** Data Universal Number System (DUNS) number. **003184462**
- 24.** Notification regarding registration in System for Award Management (SAM) database.  
**Contractor registered**

**The rates that follow include the Fully Burdened Labor Rates, inclusive of overhead, profit, and the GSA Industrial Funding Fee (IFF) of 0.75%. All rates for Construction Management and Consulting Services are FFP and T&M. Separate FFP and T&M rates for Environment are provided.**

**AECOM Technical Services, Inc.**  
**MAS 47QSWA19D006S**  
**Contract Price List**

**Energy Savings Performance Contract (ESPC)**

**SIN 334512**

**FULLY BURDENED LABOR RATES SUMMARY**  
Commercial Price List

Contract Labor Category	BASE YR 1	BASE YR 2	BASE YR 3	BASE YR 4	BASE YR 5
	8 May-19 To 7 May-20	8 May-20 To 7 May-21	8 May-21 to 7 May-22	8 May-22 to 7 May-23	8 May-23 to 7 May-24
Business Development	\$221.88	\$228.76	\$235.56	\$242.50	\$249.81
Sr Energy Engineer	\$162.69	\$167.74	\$172.72	\$177.81	\$183.17
Energy Engineer	\$149.01	\$153.63	\$158.19	\$162.85	\$167.76
Executive	\$308.63	\$318.20	\$327.66	\$337.32	\$347.48
FCAP	\$116.94	\$120.56	\$124.15	\$127.81	\$131.66
Sr M&V Engineer	\$196.04	\$202.12	\$208.13	\$214.26	\$220.72
M&V Engineer	\$96.02	\$99.00	\$101.94	\$104.94	\$108.11
Manager	\$350.49	\$361.36	\$372.10	\$383.07	\$394.61
Project Manager	\$197.70	\$203.83	\$209.89	\$216.07	\$222.58
Project Controls	\$87.95	\$90.67	\$93.37	\$96.12	\$99.02
Sr Project Developer	\$217.15	\$223.88	\$230.53	\$237.33	\$244.48
Project Developer	\$180.16	\$185.75	\$191.27	\$196.91	\$202.84
Sr Project Engineer	\$194.31	\$200.33	\$206.29	\$212.37	\$218.76
Project Engineer	\$173.52	\$178.90	\$184.22	\$189.65	\$195.36
Solar Design Engineer	\$113.44	\$116.95	\$120.43	\$123.98	\$127.72
Solar Manager	\$218.42	\$225.19	\$231.88	\$238.72	\$245.91
Sr Water Design Engineer	\$207.74	\$214.18	\$220.54	\$227.04	\$233.88
Water Design Engineer	\$126.03	\$129.94	\$133.80	\$137.74	\$141.89
Sr Technical Writer	\$89.23	\$92.00	\$94.73	\$97.53	\$100.47
Technical Writer	\$80.21	\$82.70	\$85.16	\$87.67	\$90.31
Word Processor	\$68.99	\$71.13	\$73.25	\$75.41	\$77.68

*NOTE: Fully burdened labor rates include overhead, profit, and the GSA Industrial Funding Fee (IFF).*

**AECOM Technical Services, Inc.**  
**MAS 47QSWA19D006S**  
**Contract Price List**

**Information Technology Services****SINS 518210C, 541370GEO, 54151, 54151S, 611420, OLM**

Contract Labor Category	BASE YR 1	BASE YR 2	BASE YR 3	BASE YR 4	BASE YR 5
	5 May-19 to 4 May-20	5 May-20 to 4 May-21	5 May-21 to 4 May-22	5 May-22 to 4 May-23	5 May-23 to 4 May-24
Administrative Support - Senior	\$109.83	\$112.26	\$115.24	\$118.59	\$122.15
Administrative Support - Intermediate	\$96.68	\$98.82	\$101.45	\$104.39	\$107.53
Administrative Support - Junior	\$72.52	\$74.12	\$76.09	\$78.30	\$80.65
Helpdesk Manager - Senior	\$109.58	\$112.00	\$114.98	\$118.31	\$121.87
Helpdesk Manager - Intermediate	\$99.03	\$101.22	\$103.91	\$106.92	\$110.14
Helpdesk Manager - Junior	\$72.52	\$74.12	\$76.09	\$78.30	\$80.65
Helpdesk Specialist - Senior	\$98.90	\$101.08	\$103.77	\$106.78	\$109.99
Helpdesk Specialist - Intermediate	\$81.15	\$82.95	\$85.15	\$87.62	\$90.26
Helpdesk Specialist - Junior	\$66.23	\$67.69	\$69.50	\$71.51	\$73.66
GIS Analyst - Senior	\$158.07	\$161.56	\$165.86	\$170.67	\$175.80
GIS Analyst - Intermediate	\$116.05	\$118.61	\$121.77	\$125.30	\$129.07
GIS Analyst - Junior	\$89.03	\$91.00	\$93.42	\$96.13	\$99.02
GIS Technician - Senior	\$112.95	\$115.45	\$118.52	\$121.95	\$125.62
GIS Technician - Intermediate	\$89.03	\$91.00	\$93.42	\$96.13	\$99.02
GIS Technician - Junior	\$72.63	\$74.23	\$76.20	\$78.42	\$80.77
Geodatabase Designer - Senior	\$146.76	\$150.01	\$153.99	\$158.46	\$163.22
Geodatabase Designer - Intermediate	\$122.83	\$125.54	\$128.88	\$132.62	\$136.61
Geodatabase Designer - Junior	\$96.79	\$98.93	\$101.56	\$104.50	\$107.64
Geodatabase Administrator - Senior	\$112.95	\$115.45	\$118.52	\$121.95	\$125.62
Geodatabase Administrator - Intermediate	\$97.80	\$99.97	\$102.63	\$105.60	\$108.78
Geodatabase Administrator - Junior	\$86.75	\$88.67	\$91.03	\$93.67	\$96.49

NOTE: Fully burdened labor rates include overhead, profit, and the GSA Industrial Funding Fee (IFF).

\*Contractor (Office) or Customer Site (Field)

**AECOM Technical Services, Inc.**  
**MAS 47QSWA19D006S**  
**Labor Category Descriptions**

**Information Technology Services**

SINS 518210C, 541370GEO, 54151, 54151S, 611420, OLM

Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
Executive - Senior	BA or BS  Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<b>Executive</b> Executives have responsibilities delegated to them by their companies and have varying levels of authority to obligate their companies. Their companies more efficient by this delegation, and oftentimes they may be responsible for large client relationships across many geographic areas, programs, or projects.
Executive - Intermediate	BA or BS  Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Consultant - Senior	BA or BS  Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<b>Consultant</b> A Consultant under this proposed Schedule is an expert or experienced professional with a technical or management background in Information Technology (IT). This experience is leveraged to propose or implement business solutions using IT. For example, Consultants may perform tasks such as: <ul style="list-style-type: none"> <li>• Develop functional and technical information</li> <li>• Supervise Business Analysts in the development of software designs, computer programs, system testing, or development of training programs</li> <li>• Lead business process redesign teams in the development of new business processes</li> </ul> Participate in quality reviews to ensure work complies with specified standards
Consultant - Intermediate	BA or BS  Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Consultant - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	

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**Information Technology Services**

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Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
Program Manager - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Program Manager</b> Program Managers plan and manage projects to control overall project scope, budgets and schedules for engagements on multiple projects. Program Managers maintain contractor interface with the senior levels of the customer's organization and consult with customer and contractor personnel to formulate and review task plans and deliverables, provide conformance with program and project task schedules and costs and contractual obligations.</p> <ul style="list-style-type: none"> <li>Facilitates the assignments of Project Managers and Senior Consultants for the client.</li> <li>Monitors client satisfaction.</li> </ul> <p>Supervises, mentors and trains team members that work for clients who he is responsible for.</p>
Program Manager - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Program Manager - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Project Manager - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Project Manager</b> The Project Manager (PM) is responsible for the successful management of assigned projects. The PM accomplishes this by managing, planning and coordinating activities of projects. They review project performance regularly for time and schedule, costs, and adherence to the scope of work. The PM establishes work plans and coordinates staffing for each phase of project and arranges for recruitment or assignment of project personnel, oversees financial management and financial reporting. In addition, they may develop work breakdown structures and prepare charts, tables, graphs, and diagrams to assist in analyzing problems. This position serves as the primary interface between the client and the project team. Essential Duties and Responsibilities include the following, but are not limited to the following:</p>
Project Manager - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Project Manager - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	

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Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
			<ul style="list-style-type: none"> <li>• Prepares the scope of services, detailed project budget, schedule and contract for review and approval.</li> <li>• Conducts interim project status meetings with the project team, and/or the client to discuss tasks, schedules, budgets, etc.</li> </ul> <p>Is responsible for completing each project on time and on budget. Regularly monitors project schedules and budgets throughout the project life.</p>
Task Leader - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Task Leader</b></p> <p>Task Managers apply management skills and technical expertise to guide teams who are responsible for delivering on a focused task. The focused task may be part of a larger project or stand-alone. The Task Manager monitors quality for the focused task. They monitor technical and financial progress of focused tasks to project managers and clients, organizes and assigns responsibilities to subordinates, and oversees the assigned tasks.</p>
Task Leader - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Task Leader - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Business		<5	<b>Business Analyst</b>

**\*Contractor (Office) or Customer Site (Field)**

Analyst - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.		The Business Analyst (BA) analyzes and documents the business processes and systems of organizations. They also assess the business model and how technology may be integrated within the business processes. The BA is essential for translating business process needs into technical requirements and acting as the translator between the business area and technology solutions. In addition, the Business Analyst may
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Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
Business Analyst - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	<ul style="list-style-type: none"> <li>Determine and document user requirements for business processes and abide by those requirements for future projects</li> <li>Conduct Joint Application Development sessions and meetings.</li> <li>Develops wireframes of applications forms and screens.</li> </ul> Develops use cases and other system documentation.
Business Analyst - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Systems Analyst - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<b>Systems Analyst</b> The Systems Analyst specializes in analyzing, designing, and implementing IT systems. Performing this work requires knowledge of required hardware and software components for approved applications. The System Analyst conducts or coordinates tests of application systems to monitor and tune performance, develops diagrams and flow charts for computer programmers to follow. The Systems Analyst may also review, analyze, write system scripts, and automate application installations.
Systems Analyst - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Systems Analyst - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Systems Architect - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<b>Systems Architect</b> Establishes system information requirements using analysis of the information engineer(s) in the development of enterprise-wide or large-scale information systems.

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Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
Systems Architect - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	Designs architecture to include the software, hardware, and communications to support the total requirements as well as provide for present and future cross-functional requirements and interfaces.
Systems Architect - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	Ensures these systems are compatible and in compliance with the standards for open systems architectures, the Open Systems Interconnection (OSI) and International Standards Organization (ISO) reference models, and profiles of standards.
Database Administrator - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<b>Database Administrator</b> Database Administrators administer enterprise database systems, using sound database management practices to organize and store data. The Database Administrator will ascertain user requirements, create computer databases, and test and coordinates changes to the databases. This individual interacts with development and end-user personnel to determine application data access requirements, transaction rates, volume analysis, and other pertinent data required to develop and maintain integrated databases.
Database Administrator - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Database Administrator - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Database Architect - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	

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Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
Database Architect - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	The Database Administrator will ascertain user requirements, create computer databases, and test and coordinates changes to the databases. This individual interacts with development and end-user personnel to determine application data access requirements, transaction rates, volume analysis, and other pertinent data required to develop and maintain integrated databases.
Database Architect - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Data Scientist - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<b>Data Scientist</b> Data Scientists are responsible for the collection, cleaning and munging of data to meet the company's purpose. Duties vary according to the industry and may include experimental frameworks for product development and machine learning with the aim to lay a strong data foundation for robust analytics to be performed. Data scientists utilize their analytical, statistical, and programming skills to collect, analyze, and interpret large data sets. They then use this information to develop data-driven solutions to difficult business challenges. Data scientists commonly have a bachelor's degree in statistics, math, computer science, or economics. Data scientists have a wide range of technical competencies including statistics and machine learning, coding languages, databases, machine learning, and reporting technologies.
Data Scientist - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Data Scientist - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Programmer - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	
			<b>Programmer</b> The Programmer works under the direction of more senior team members, and is responsible for program design, application and script coding, testing, debugging of both unit and system code.

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Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
Programmer - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	They have technical knowledge and responsibility of all phases of applications systems analysis and programming. Understands the business or function for which application is designed. The Programmer may: <ul style="list-style-type: none"> <li>Write programs according to specifications, which may be provided by PMs, BAs, Task Leaders, System Analysts, and others.</li> </ul>
Programmer - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	Update, repair, modify and expand existing computer programs.
Technical Support - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<b>Technical Support</b> Responsible for providing the client and end users with support for the client's applications and services. This includes interfacing with users to handle service inquiries and problems, helping troubleshoot problems, and providing reports and statistics to the client. Under general supervision, helps establish guidelines for supporting users, examines customer problems and implements appropriate corrective action to initiate repair, maintains logs, records and files.
Technical Support - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Technical Support - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	

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MAS 47QSWA19D006S  
Labor Category Descriptions**

**Information Technology Services**

**SINS 518210C, 541370GEO, 54151, 54151S, 611420, OLM**

Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
Web Developer - Senior	BA or BS  Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Web Developer</b></p> <p>A Web Developer is a specialized programmer who provides supports and develops web-based applications including on-line and internal applications to support client operations. The Web Developer provides support in developing the site concept, interface design, and architecture of the website. They also support the implementation of interfaces to applications, develop both client side and server-side code to allow web-based applications to deliver the correct content.</p>
Web Developer - Intermediate	BA or BS  Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Web Developer - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Web Designer - Senior	BA or BS  Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Web Designer</b></p> <p>The Web Designer may design, plan, or execute the design and layout for Internet sites and web-based applications. This includes graphic design, interface design, user experience, and application usability. The design may include combining text with sounds, pictures, graphics, and video-clips. The Web Designer may:</p> <ul style="list-style-type: none"> <li>• Communicate with clients to assess their needs, discuss requirements, and clarify goals for websites and web-based applications.</li> <li>• Produce wireframes of proposed sites using combination of graphic and written material and modifies proposal as necessary.</li> </ul> <p>Maintain site appearance by developing and enforcing content and display standards.</p>
Web Designer - Intermediate	BA or BS  Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	

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Web Designer - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Consulting Functional Expert - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Consulting Functional Expert</b></p> <p>A Consulting Functional Expert is an experienced professional expert in a field. They may be called on to provide specific expertise on either an IT related area, such as cyber security, or act as a domain expert who provides support for documenting and defining business processes. The Consulting Functional Expert may be called upon to:</p> <ul style="list-style-type: none"> <li>• Provide specific technical requirements such as security testing.</li> <li>• Work with Task Leaders, Data Architects, Programmers, and BAs to understand the domain specific aspects of data, business processes, and application requirements.</li> </ul> <p>Review documentation of systems and applications.</p>
Consulting Functional Expert - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Consulting Functional Expert - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Technical Writer - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Technical Writer</b></p> <p>The Technical Writer is responsible for translating technical information into clear, readable documents to be used by technical and non-technical personnel. They do this by writing and updating material such as reports, manuals, briefs, proposals, training materials, and related technical publications concerned with work methods and procedures, and installation, operation, and maintenance of systems and applications.</p>

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Technical Writer - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	The Technical Writer work with all team members to understand the topic they are documenting, and they will be required to create new documents, as well as edit existing documents for clarity.
Technical Writer - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Graphics Specialist - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Graphics Specialist</b></p> <p>Provides a wide range of graphic, audio-visual, and multi-media presentations for use in publication of plans, presentations, pamphlets, newsletters, websites, and applications. They may be responsible for creating branding of organizations including the creation of digital stationery, presentation backgrounds, logos, and web standards. Graphics Specialists may be called upon to:</p> <ul style="list-style-type: none"> <li>• Provides multi-media support to clients and work teams.</li> <li>• Provide photographic support.</li> </ul> <p>Maintains, record and file of work performed.</p>
Graphics Specialist - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Graphics Specialist - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	

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Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
Documentation Specialist - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Documentation Specialist</b></p> <p>The documentation specialist uses technical material prepared by project team, and prepares the technical, user, and help documentation that is delivered for the project. The documentation may be stored and accessed in a variety of systems including on-line help and printed manuals. They will be responsible for helping fix errors in material and formatting documentation for various on-line systems. The Documentation Specialist may also gather, analyze, and compose technical information, conduct research into the use of proper technical terminology.</p>
Documentation Specialist - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Documentation Specialist - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Administrative Support - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Administrative Support</b></p> <p>Provides general administrative support to relieve department managers or staff of administrative details. Performs routine and non-routine tasks including special projects. May be responsible for inventory control, scheduling and organizing meetings, researching and securing requested information, and for researching, compiling and proofing of various reports and studies. May take and/or transcribe confidential or technical information, take and distribute meeting minutes, order supplies, distribute mail, answer phones, respond to customer/client/employee inquiries, and other office administrative duties. Interacts with other support staff and departments to gather, supply, or coordinate information.</p>
Administrative Support - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	

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Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
Administrative Support - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	<ul style="list-style-type: none"> <li>Specializes in coordinating and planning office administration and support.</li> <li>Understands and provides documentation planning and support, project administration, general office support, executive secretarial support, human resource planning, event planning and administration, office relocation planning, etc. required in changing office environments.</li> </ul> <p>May perform other duties as assigned.</p>
Helpdesk Manager - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Help Desk Manager</b></p> <p>The Help Desk Manager supervises and coordinates activities of Help Desk Specialists and Technical Support activities. They identify, troubleshoot, or resolve client application and service problems to increase efficiency and enhance users experience with client's services and applications. The Help Desk Manager may:</p> <ul style="list-style-type: none"> <li>Assist computer users with hardware and software questions and problems,</li> <li>Field telephone calls and e-mail messages from customers seeking guidance on technical problems.</li> </ul> <p>Diagnose nature of problems and assisting customers through problem solving steps.</p>
Helpdesk Manager - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Helpdesk Manager - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Helpdesk Specialist - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Help Desk Specialist</b></p> <p>Provides first line technical support for the client and end users with for the client's applications and services. This includes interfacing with users to handle service inquiries and problems, helping troubleshoot problems, logging support calls with tracking tools, and providing reports and statistics to the client.</p>

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Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
Helpdesk Specialist - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	Under general supervision of the PM or the Help Desk Manager, helps establish guidelines for supporting users, examines customer problems, interfaces with back end developers and technical support to resolve user issues. The Help Desk Specialist may:
Helpdesk Specialist - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	<ul style="list-style-type: none"> <li>Provides phone, e-mail, chat, and in-person support to users</li> </ul> Support client applications, Commercial Off the Shelf (COTS) software, client services, or any combination of these.
GIS Analyst - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<b>GIS Analyst</b> The GIS Analyst, under limited supervision, assists in the design, development, implementation, and maintenance of Geographic Information Systems (GIS), They may be responsible for COTS software installation, maintenance and licensing, GIS Analysts use Remote Sensing (RS), Global Positioning System (GPS), and other spatial tools to provide analyses and solutions to administrative, scientific and technical problems. Understands and interprets the client's business applications and is responsible for developing applications and products to fulfill customer requirements.
GIS Analyst - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
GIS Analyst - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	<ul style="list-style-type: none"> <li>Develops simple applications and scripts, and uses existing scripts, to automate processes, maps, and analyses.</li> <li>Assists in establishing best practices for spatial data to be followed by other team members.</li> </ul> Maintains databases for GIS.

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Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
GIS Technician - Senior	BA or BS  Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>GIS Technician</b></p> <p>The GIS Technician works under the supervision of other team members and is expected to apply the concepts of GIS and spatial analyses to solve tasks as assigned. The following are examples of work performed by the GIS Technician:</p> <ul style="list-style-type: none"> <li>• Uses COTS software to input, edit, prepare and produce various maps, related geographic database information and other GIS tools and products.</li> <li>• Assist in developing geographic database structures, tables, forms and reports.</li> </ul> <p>Responds to user requests for standard or custom maps, charts, graphs, GIS analysis, GIS projects and related information.</p>
GIS Technician - Intermediate	BA or BS  Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	-5	
GIS Technician - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Geodatabase Designer - Senior	BA or BS  Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Geodatabase Designer</b></p> <p>The Geodatabase designer supports the design and implementation of databases with a spatial component known as geodatabases. Geodatabase design involves more traditional databases combined with location data inherent to some of the data. The Geodatabase designer considers what additional spatial and database elements will be needed for integrity rules, and whether more advanced GIS behavior (such as topologies, networks, and raster catalogs) is needed. They also define spatial and attribute relationships between datasets, and how the data will be organized into datasets, such as feature classes, attributes, raster datasets.</p>
Geodatabase Designer - Intermediate	BA or BS  Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	

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Labor Class	Minimum Education/ Certification Level	Minimum Years of Experience	Description
Geodatabase Designer - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	
Geodatabase Administrator - Senior	BA or BS Master's degree and 3 years of relevant experience, or Bachelor's degree with over 5 years of relevant experience.	<5	<p><b>Geodatabase Administrator</b></p> <p>The GIS Database Administrator is responsible for the implementation and maintenance of geodatabases. The role includes the development and design of Enterprise database strategies, monitoring and improving database performance, and planning for future expansion requirements. They may also plan, coordinate and implement Enterprise database security measures. Examples of Geodatabase Administrator activities are:</p> <ul style="list-style-type: none"> <li>• Maintain Enterprise related Databases and Servers for broad use in the GIS and applications.</li> <li>• Design, document, and build GIS database architecture and schema including tables, views, procedures, and permissions.</li> </ul> <p>Administration of ArcSDE, ArcGIS, and enterprise database users, roles and security models.</p>
Geodatabase Administrator - Intermediate	BA or BS Bachelor's degree, or an Associate's degree and 2 years of relevant experience.	2-5	
Geodatabase Administrator - Junior	Earned credit from a college or university and a minimum of 2 years relevant experience, or a high school degree and a minimum of 5 years relevant experience.	0-2	