GENERAL SERVICES ADMINISTRATION

Authorized Federal Supply Schedule and 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 for GSA Advantage! is: GSAAdvantage.gov.

Federal Supply Schedule
Schedule Title: Multiple Award
Industrial Group: Professional Services
Contract Number: 47QRAA18D00D1

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

Contract Period:
July 25, 2018, through July 24, 2023

Price list current as of Modification #PS-0012, effective 03/07/2022
*This is the MOST RECENTLY awarded Contractor Initiated Modification and does NOT include any Mass Modifications.

Business Size: Small Business

Sonoma Technology

Sonoma Technology
1450 N. McDowell Blvd., Suite 200
Petaluma, CA 94954-6515
Tel: 707-665-9900
Fax: 707-665-9800
Internet: www.sonomatech.com

Contractor Contact Administrator
Hilary R. Hafner, Chief Operating Officer
Sonoma Technology
Tel: (707) 665-9900
Fax: (707) 665-9800
Email: hilary@sonomatech.com

STI-6971
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Company Information

1a. Special Item Numbers Available:

SIN 541620
Environmental Consulting Services

SIN 611430
Professional and Management Development Training

SIN 541370GIS
Geographic Information Systems (GIS) Services

SIN OLM
Order Level Materials

SIN 54151S
Information Technology Professional Services

1b. Lowest Price Item: N/A

1c. Hourly Rates and Labor Category Description - see below

2. Maximum Order Information:

SIN 541620: $1,000,000
SIN 611430: $1,000,000
SIN 541370GIS: $1,000,000
SIN OLM: $250,000
SIN 54151S: $500,000

3. Minimum Order Information:

$100

4. Geographic Coverage: Worldwide. Travel will be charged in accordance with the Federal Travel Regulation, FAR 31.205-46, as applicable

5. Points of Production:

Sonoma Technology offices and at customer sites, as required and appropriate

6. Discount from List Prices: Government net prices (discounts already deducted)

7. Quantity Discounts: For SIN 541620, SIN 611430, SIN 541370GIS, and SIN OLM: None; for SIN 54151S: 18% for orders exceeding $750,000

8. Prompt Payment Terms: Net 30. Terms: Information for Ordering Offices: Promptly payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions

9. Foreign Items: None

10a. Time of Delivery:

To be determined at the time of order

10b., 10c, 10d: Expedited, Overnight, 2-Day Delivery, and Urgent Requirements: To be negotiated at the time of order

11. FOB Points: Destination

12a. Ordering Address:

Sonoma Technology
1450 N. McDowell Blvd., Suite 200
Petaluma, CA 94954-6515

12b. Ordering Procedures: For supplies and services, the ordering procedures and information on Blanket Purchase Agreements (BPAs) are found in Federal Acquisition Regulation (FAR) 8.405-3

13. Payment Address:

Sonoma Technology
1450 N. McDowell Blvd., Suite 200
Petaluma, CA 94954-6515
14. Warranty Provision:
Sonoma Technology warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract

15. Export Packing Charges: Not applicable

16. Terms and Conditions of Rental, Maintenance, and Repair: N/A

17. Terms and Conditions of Installation: N/A

18a. Terms and Conditions of Repair Parts Indicating Date of Parts, Price Lists, and any Discounts From List Prices: N/A

18b. Terms and Conditions for any Other Services: N/A

19. List of Service and Distribution Points and Participating Dealers: N/A

20. Entity Data Detailed Results: List of Participating Dealers: N/A

21. Preventative Maintenance: N/A

22a. Special attributes such as environmental attributes (e.g., Recycled Content, Energy Efficiency, and/or Reduced Pollutants): N/A

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: Not Applicable.

23. Unique Entity Identifier (UEI) Number: X6R6G6CVWNF9

24. Notification Regarding Registration in System for Award Management (SAM) database: Sonoma Technology is registered in the SAM database

Technical Contact:
Lyle R. Chinkin,
Chief Executive Officer
Sonoma Technology
Phone: (707) 665-9900
Fax: (707) 665-9800
Email: lyle@sonomatech.com

Point of Contact:
Hilary R. Hafner,
Chief Operating Officer
Sonoma Technology
Phone: (707) 665-9900
Fax: (707) 665-9800
Email: hilary@sonomatech.com

The Service Contract Act (SCA) is applicable to this contract and as it applies to the entire Professional Services Schedule and all services provided. While no specific labor categories have been identified as being subject to SCA due to exemptions for professional employees (FAR 22.1101, 22.1102 and 29CRF 5413.300), this contract still maintains the provisions and protections for SCA eligible labor categories. If and/or when the Contractor adds SCA labor categories / employees to the contract through the modification process, the Contractor must inform the Contracting Officer and establish an SCA matrix identifying the GSA labor category titles, the occupational code, SCA labor category titles and applicable wage determination (WD) number. Failure to do so may result in cancellation of the contract.
About Sonoma Technology

Sonoma Technology is a private consulting firm that delivers innovative, science- and technology-based solutions for our clients’ environmental needs worldwide. Headquartered in Petaluma, California, Sonoma Technology is a green-certified and federal-certified small business with more than 70 technical and support staff members. Our integrated teams consist of atmospheric and physical scientists, policy and data analysts, engineers, software and database developers, and technical editors. Our client base spans government organizations, universities, private industry, and law firms.

Our Services
Since 1982, we have led projects throughout the United States and abroad that address regulatory, policy, scientific, and technological objectives and challenges. Our services include air quality research, atmospheric measurements, transportation-related analyses, air quality and smoke forecasting, atmospheric modeling and analysis, exposure modeling, forest and fire ecology, emissions inventory development and assessment, instrumentation and data system development, litigation support, public information systems, software development and decision support systems, website development and hosting, training and outreach, and environmental education. We also offer support services related to technical editing, desktop publishing, and graphic design and development.

Our Staff
Our scientists contribute to the field through service work on committees for the National Academy of Sciences, the U.S. Transportation Research Board, Clean Air Asia, and other government agency advisory panels. Sonoma Technology staff members also serve as scientific peer-reviewers, publish peer-reviewed articles, and present findings at national and international conferences.

Our Expertise
We use our expertise and innovative solutions in the collection, validation, and analysis of environmental data to streamline complex processes. Organizations and individuals around the world trust Sonoma Technology for science-based expertise and products to understand and protect their health and the environment.

Learn more about Sonoma Technology at sonomatech.com.
SIN 541620

Environmental Consulting Services

Sonoma Technology is an established leader in air quality related consulting services for the development, planning, facilitation, coordination, and documentation of environmental matters. Sonoma Technology has decades of experience working with state, regional, local, and federal government agencies in support of their environmental programs, including environmental regulations and environmental policy and procedure updates.

Services offered under SIN 541620 include:

**Air Quality Measurement Support**
- Develop/update standard operating procedures (SOPs) for criteria pollutants, as well as hazardous air pollutants.
- Conduct data validation of environmental observations.
- Design and conduct regional-to community-scale air quality measurement studies to address “environmental justice” issues.
- Design and conduct air quality measurement studies using research-grade devices, regulatory-approved instruments, and low-cost sensors.
- Prepare Quality Assurance Project Plans (QAPP) in accordance with U.S. EPA requirements.

**Emissions Inventory Analysis Support**
- Use “machine learning” techniques to identify anomalies or biases in continuous emissions data collected under the 40 CFR Part 75 reporting program.
- Update State Implementation Plans to incorporate emissions inventory information for wildland fires.

**Air Quality Modeling Support**
- Use “state-of-the-science” techniques to model air quality from man-made and natural sources, as well as smoke impacts from wildfires and prescribed burns.
- Model near-road air quality impacts from transportation activities and goods movement.
Professional and Management Development Training

The Sonoma Technology training program deepens and broadens your capabilities, skills, and technical knowledge in a supportive, professional learning environment. Sonoma Technology’s training courses are based on practical, hands-on experience, and are designed and delivered by internationally recognized air quality experts. Agencies throughout the world benefit from our custom training courses, including the U.S. Environmental Protection Agency, the World Bank, and the California Air Resources Board.

Sonoma Technology provides comprehensive, tailor-made training solutions on a variety of air quality topics. Depending on your needs, courses can take the form of a single-day overview or a multi-day, in-depth program. They can take place at your location, your client’s location, virtually through remote platforms such as Zoom or Google Classroom, or at Sonoma Technology’s facility in Petaluma, California. Training program courses include:

**Developing Community Air Monitoring Programs**
Our scientists work with clients on developing community air monitoring campaigns to provide science-based evidence to engage decision makers and inform community members.

**Exceptional Event Analysis**
Our meteorologists and data scientists share their extensive experience and the best practices for preparing particulate matter and ozone exceptional event demonstrations that meet the U.S. EPA’s requirements.

**Data Validation**
We train clients in the use of state-of-the-science analysis, statistical, and visualization platforms to assess and communicate ambient air quality data.

**Air Quality Sensors**
Learn from our sensor experts who work with community groups, industrial facilities, non-profit organizations, and government agencies to evaluate, understand, and advance the use and application of the latest low-cost small sensor technologies.

**Air Quality Forecasting**
Our forecasting team trains government and industry clients on forecasting best practices, generating forecasts, and communicating air pollution conditions and impacts to the public, stakeholders, and decision makers.

**Using R for Air Quality Data Analysis**
Our data analysis experts can help your team understand the R programming environment, and to use R for data evaluation and analysis, data visualization, modeling, and forecasting.
Geographic Information Systems (GIS) Services

Geographic Information System (GIS) technology has become an integral component of environmental management solutions. Sonoma Technology specializes in using GIS technology to develop improved methods for spatially distributing emissions, studying spatial relationships between emissions sources and population groups, and developing spatial geo-databases to store and display geographic and tabular data.

Custom GIS Applications
We design and implement custom GIS applications and interfaces to display and analyze spatial and environmental data. Sonoma Technology’s analysts and programmers have extensive experience using open-source GIS technologies, as well as ESRI’s GIS software products.

Spatial Analysis
Sonoma Technology uses GIS technology in spatial analysis—such as in developing suitability models for site selection and site location validation—and in support of other environmental services. GIS technology allows our environmental scientists to assess environmental data using graphical representations.

Additional Services
- Thematic Mapping and Cartography
- Site Selection and Suitability Analysis
- Geostatistical Analysis
- Data/Aerial Interpretation
- Data Conversion (ArcInfo, AutoCAD, and Satellite-derived products)
- Custom Applications, Graphical User Interfaces, and Automated GIS Analysis using Python, Modelbuilder, R, and others.
- Publishing Web Map Services using ArcGIS Server and ArcOnline
SIN Order Level Materials (OLM)

**OLMs are:**

- Purchased under the authority of the FSS Program.

- 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.

**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%.
Information Technology Professional Services

Sonoma Technology has provided information technology (IT) services to the U.S. federal government for over 25 years. Our IT Professional Services and/or labor categories include database planning and design; big data management; records management; systems analysis, integration, and design; programming, conversion, and implementation support; mobile app design and development; cloud computing, including architecture design and implementation; network services; and testing.

Our headquarters in Petaluma, CA, includes a Data Management Center (DMC), Computing Center, GIS and satellite processing facilities, video production facilities, and a warehouse for measurement equipment and file storage. Our team is trusted to provide sub-hourly data management services for some of the biggest environmental datasets in the world.

Recent Federal Clients

Bureau of Land Management (BLM)
Health Effects Institute (HEI)
National Aeronautics and Space Administration (NASA)
National Oceanic and Atmospheric Administration (NOAA)
Pacific Wildland Fire Sciences Lab (USFS)
U.S. Environmental Protection Agency (EPA)
USDA Forest Service (USFS)
U.S. Department of Justice (DOJ)
U.S. State Department
U.S. Trade & Development Agency (USTDA)
## Sonoma Technology

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### Labor Category Descriptions for SIN 541620/611430/541370GIS/OLM

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<th>Description</th>
<th>Duties</th>
<th>Labor Category</th>
<th>Min Educ*</th>
<th>Min Yrs of Exp*</th>
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<tr>
<td>Relevant experience and advanced technical knowledge in one or more of the following areas:</td>
<td>Senior Staff 10, Senior Staff 9, Senior Staff 8, Senior Staff 7, Senior Staff 6, Senior Staff 5, Senior Staff 4, Senior Staff 3, Senior Staff 2, Senior Staff 1</td>
<td>Senior Staff 10</td>
<td>Ph. D.</td>
<td>9</td>
</tr>
<tr>
<td>• design of approach, development or modification of tools and processes used in environmental research, policy, and planning including collection, acquisition, quality control, processing, analysis, interpretation, and documentation of air quality data</td>
<td>Plans, conducts, and supervises company operations or complex projects with major significance in the areas of expertise. Develops and applies new methods and theories. Supplies technical advice, direction, and counsel to other professionals or the public. Generally operates with wide latitude and actions are unreviewed.</td>
<td>Associate Staff 15</td>
<td>Masters</td>
<td>9</td>
</tr>
<tr>
<td>• application of technical approaches for environmental services including development or modification of computer hardware and software</td>
<td>Senior Staff 9, Senior Staff 8, Senior Staff 7, Senior Staff 6, Senior Staff 5, Senior Staff 4, Senior Staff 3, Senior Staff 2, Senior Staff 1</td>
<td>Senior Staff 9</td>
<td>Ph. D.</td>
<td>8</td>
</tr>
<tr>
<td>• composition and editorial review of scientific and technical documents including technical reports, training materials, computer software user’s guides, and Internet publications specifications</td>
<td>Senior Staff 8</td>
<td>Ph. D.</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>• develop and lead technical training courses</td>
<td>Senior Staff 7</td>
<td>Ph. D.</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>• office management, contract management, publication generation, human resources administration, and accounting processes</td>
<td>Senior Staff 6</td>
<td>Ph. D.</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>• project planning and management experience including staff supervision</td>
<td>Senior Staff 5</td>
<td>Ph. D.</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>• computer and non-computer systems and processes needed for data acquisition, analysis and display, quality control, statistical programming, policy analysis, air quality mapping, and air quality modeling</td>
<td>Senior Staff 4</td>
<td>Ph. D.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>• computer hardware networks and software programs in support of air quality data analysis</td>
<td>Senior Staff 3</td>
<td>Ph. D.</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Senior Staff 2</td>
<td>Ph. D.</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Relevant experience and technical knowledge in one or more of the following areas:</td>
<td>Under minimal supervision, plans, conducts, and manages assignments/projects. Estimates and schedules work to meet completion dates. Supplies technical advice, direction, and counsel to co-workers and project managers. Directs assistance, reviews progress, and evaluates results; makes changes in methods or design where necessary. Operates with latitude. May supervise staff.</td>
<td>Associate Staff 11</td>
<td>Masters</td>
<td>5</td>
</tr>
<tr>
<td>• design of approach, development or modification of tools and processes used in environmental research, policy, and planning including collection, acquisition, quality control, processing, analysis, interpretation, and documentation of air quality data</td>
<td>Associate Staff 10</td>
<td>Masters</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>• application of technical approaches for environmental services including development or modification of computer hardware and software</td>
<td>Associate Staff 9</td>
<td>Masters</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>• composition and editorial review of scientific and technical documents including technical reports, training materials, computer software user’s guides, and Internet publications specifications</td>
<td>Associate Staff 8</td>
<td>Masters</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>• develop and lead technical training courses</td>
<td>Associate Staff 7</td>
<td>Masters</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>• office management, contract management, publication generation, human resources administration, and accounting processes</td>
<td>Associate Staff 6</td>
<td>Masters</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>• project planning and management experience including staff supervision</td>
<td>Associate Staff 5, Associate Staff 4</td>
<td>Bachelor's</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>• computer and non-computer systems and processes needed for data acquisition, analysis and display, quality control, statistical programming, policy analysis, air quality mapping, and air quality modeling</td>
<td>Associate Staff 3</td>
<td>Bachelor's</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>• computer hardware networks and software programs in support of air quality data analysis</td>
<td>Associate Staff 2</td>
<td>Bachelor's</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Associate Staff 1</td>
<td>Bachelor's</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Relevant experience and knowledge in one or more of the following areas:</td>
<td>Under close supervision of a manager or project manager, gathers and correlates information and performs tasks in areas where employee has knowledge or training. Assignments require evaluation and communication of task results.</td>
<td>Associate Staff 15</td>
<td>Bachelor's</td>
<td>4</td>
</tr>
<tr>
<td>• computer and non-computer systems and processes needed for data acquisition, analysis and display, quality control, statistical programming, air quality mapping, and air quality modeling</td>
<td>Staff 15</td>
<td>Bachelor's</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>• computer hardware networks and software programs in support of air quality data analysis</td>
<td>Staff 14</td>
<td>Bachelor's</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>• field study activities necessary for the acquisition, quality control, and processing of air quality data</td>
<td>Staff 13</td>
<td>Bachelor's</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>• development of training presentations and courses</td>
<td>Staff 12</td>
<td>Bachelor's</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>• computer software programs to create and edit documents, training materials, graphics, and Internet publications</td>
<td>Staff 11</td>
<td>Bachelor's</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>• administrative support to technical staff</td>
<td>Staff 10</td>
<td>High School</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Under close supervision of a manager or project manager, performs simple assignments where limited evaluation is required.</td>
<td>Staff 9</td>
<td>High School</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Under close supervision of a manager or project manager, gathers, correlates, and communicates information and performs routine tasks</td>
<td>Staff 8</td>
<td>High School</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Under close supervision of a manager or project manager, gathers, correlates, and communicates information and performs routine tasks following a standard procedure</td>
<td>Staff 7</td>
<td>High School</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Under direct supervision of a manager or project manager, works on assignments where limited evaluation is required.</td>
<td>Staff 6</td>
<td>High School</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Under direct supervision of a manager or project manager, gathers and correlates basic information and performs routine tasks following a standard procedure</td>
<td>Staff 4</td>
<td>High School</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Staff 2</td>
<td>High School</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Apitude for or interest in one or more of the following areas:</td>
<td>Intern 5</td>
<td>High School</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>• computer and non-computer systems and processes needed for data acquisition, analysis and display, quality control, statistical programming, air quality mapping, and air quality modeling</td>
<td>Intern 3</td>
<td>High School</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>• computer hardware networks and software programs in support of air quality data analysis</td>
<td>Intern 1</td>
<td>High School</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>• field study activities necessary for the acquisition, quality control, and processing of air quality data</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• development of training presentations and courses</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• computer software programs to create and edit documents, training materials, graphics, and Internet publications</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• administrative support to technical staff</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Or equivalent

**Experience/Qualifications Substitutions**

1. Any combination of additional years of experience in the proposed field of expertise plus full time college level study in the particular field totaling four (4) years will be an acceptable substitute for a B.S. Degree.
2. A Bachelors Degree plus any combination of additional years of experience and graduate level study in the proposed field of expertise totaling two (2) years will be an acceptable substitute for a Masters Degree.
3. A Bachelors Degree plus any combination of additional years of experience and graduate level study in the proposed field of expertise totaling four (4) years or a Masters Degree plus two (2) years of either additional experience or graduate level study in the proposed field of expertise will be an acceptable substitute for a Ph. D. Degree.
4. Additional years of graduate level study in an appropriate field will be considered equal to years of experience on a one-for-one basis.
## Contract Price List SIN 54151S

<table>
<thead>
<tr>
<th>Labor Category</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Scientist 1</td>
<td>$121.29</td>
<td>$123.86</td>
<td>$126.48</td>
</tr>
<tr>
<td>Data Scientist 2</td>
<td>$178.36</td>
<td>$182.14</td>
<td>$186.00</td>
</tr>
<tr>
<td>Data Scientist 3</td>
<td>$254.08</td>
<td>$259.46</td>
<td>$264.97</td>
</tr>
<tr>
<td>Data Scientist 4</td>
<td>$325.26</td>
<td>$332.16</td>
<td>$339.20</td>
</tr>
<tr>
<td>Data Scientist 5</td>
<td>$396.44</td>
<td>$404.85</td>
<td>$413.43</td>
</tr>
<tr>
<td>Information Technology and Systems Engineer 1</td>
<td>$164.11</td>
<td>$167.59</td>
<td>$171.15</td>
</tr>
<tr>
<td>Information Technology and Systems Engineer 2</td>
<td>$199.70</td>
<td>$203.94</td>
<td>$208.26</td>
</tr>
<tr>
<td>Information Technology and Systems Engineer 3</td>
<td>$243.20</td>
<td>$248.36</td>
<td>$253.62</td>
</tr>
<tr>
<td>Information Technology and Systems Engineer 4</td>
<td>$267.92</td>
<td>$273.60</td>
<td>$279.40</td>
</tr>
<tr>
<td>Subject Matter Expert 1</td>
<td>$121.29</td>
<td>$123.86</td>
<td>$126.48</td>
</tr>
<tr>
<td>Subject Matter Expert 2</td>
<td>$139.63</td>
<td>$142.59</td>
<td>$145.61</td>
</tr>
<tr>
<td>Subject Matter Expert 3</td>
<td>$178.36</td>
<td>$182.14</td>
<td>$186.00</td>
</tr>
<tr>
<td>Subject Matter Expert 4</td>
<td>$294.61</td>
<td>$300.86</td>
<td>$307.24</td>
</tr>
</tbody>
</table>
Labor Category Descriptions for SIN 54151S

Data Scientist Level 5
Minimum/General Experience: 12 years
Functional Responsibility: Collects data, implements data models, and develops databases to create scientific solutions for environmental applications. Interprets results from multiple sources using a variety of techniques ranging from simple data aggregation via statistical analysis to complex data mining. Applies analytic and software engineering methodologies and principles to address client needs. Performs high-level analysis and quality control to produce extremely complex data products. Performs work of an extremely complex nature. Plans, conducts, and supervises company operations or highly complex projects with major significance. Supplies technical advice, direction, and counsel to other professionals or the public. Generally operates with wide latitude and actions are unreviewed.
Minimum Education: PhD

Data Scientist Level 4
Minimum/General Experience: 10 years
Functional Responsibility: Collects data, implements data models, and develops databases to create scientific solutions for environmental applications. Interprets results from multiple sources using a variety of techniques ranging from simple data aggregation via statistical analysis to complex data mining. Applies analytic and software engineering methodologies and principles to address client needs. Performs high-level analysis and quality control to produce increasingly complex data products. Performs work of a moderately to highly complex nature. Under minimal supervision, plans, conducts, and manages assignments/projects. Supplies technical advice, direction, and counsel to co-workers and project managers. Operates with latitude.
Minimum Education: Master’s Degree

Data Scientist Level 3
Minimum/General Experience: 6 years
Functional Responsibility: Collects data, implements data models, and develops databases to create scientific solutions for environmental applications. Interprets results from multiple sources using a variety of techniques ranging from simple data aggregation via statistical analysis to complex data mining. Applies analytic and software engineering methodologies and principles to address client needs. Performs high-level analysis and quality control to produce increasingly complex data products. Performs work of a moderately to highly complex nature. Under minimal supervision, plans, conducts, and manages assignments/projects. Supplies technical advice, direction, and counsel to co-workers and project managers. Operates with latitude.
Minimum Education: Master’s Degree

Data Scientist Level 2
Minimum/General Experience: 3 years
Functional Responsibility: Collects data, implements data models, and develops databases to create scientific solutions
for environmental applications. Interprets results from multiple sources using a variety of techniques ranging from simple data aggregation via statistical analysis to complex data mining. Applies analytic and software engineering methodologies and principles to address client needs. Performs high-level analysis and quality control to produce complex data products. Performs work of a moderately complex nature. Under general supervision, carries out progressively more complex assignments associated with projects or group operations and may manage individual tasks.

**Minimum Education:** Bachelor’s Degree

### Data Scientist Level 1

**Minimum/General Experience:** 0 years

**Functional Responsibility:** Collects data, implements data models, and develops databases to create scientific solutions for environmental applications. Interprets results from multiple sources using a variety of techniques ranging from simple data aggregation via statistical analysis to complex data mining. Applies analytic and software engineering methodologies and principles to address client needs. Performs high-level analysis and quality control to produce data products. Performs work of a complex nature. Under supervision of a manager or project manager, translates technical guidance received for implementation.

**Minimum Education:** Bachelor’s Degree

### Information Technology and Systems Engineer Level 4

**Minimum/General Experience:** 10 years

**Functional Responsibility:** Develops and/or supports development of software applications, mobile apps, websites, and databases and/or maintains operational systems. Plans, conducts, and supervises company operations or highly complex projects with major significance. Supplies technical advice, direction, and counsel to other professionals or the public. Generally operates with wide latitude and actions are unreviewed. May have responsibility for one or more of the following areas:

1. Development:
   a. Responsible for some or all facets of the software development process, including the research, design, programming, and Quality Assurance (QA) testing of computer software.
   b. Uses a wide variety of open source technologies and cloud services (including Amazon Web Services, Microsoft Azure, and Google Cloud Platform). Understands data requirements across SQL, NoSQL, and other data platforms; leverages a working understanding of code and scripting languages, and has experience with IT operations in always-up, always-available services.

2. Operations:
   a. Performs systems analysis, design development, and test and evaluation activities. Ensures the integration of software, hardware
Labor Category Descriptions for SIN 54151S (Cont.)

reliability, maintainability, safety, survivability, and human and other requirements in the total engineering effort. Selects system architectures, allocates requirements, and prepares specifications in support of development efforts.

b. Responsible for the upkeep, configuration, and reliable operation of computer systems and related software. Implements standards for computer operations for compatibility between hardware and software, as well as security of the system and network. Troubleshoots and resolves software, operating system, and networking problems. Schedules, performs, and monitors backups and other essential processes.

Minimum Education: PhD

Information Technology and Systems Engineer Level 3

Minimum/General Experience: 6 years

Functional Responsibility: Develops and/or supports development of software applications, mobile apps, websites, and databases and/or maintains operational systems. Under minimal supervision, plans, conducts, and manages assignments/projects. Supplies technical advice, direction, and counsel to co-workers and project managers. Operates with latitude. May have responsibility for one or more of the following areas:

1. Development:

   a. Responsible for some or all facets of the software development process, including the research, design, programming, and Quality Assurance (QA) testing of computer software.

b. Uses a wide variety of open source technologies and cloud services (including Amazon Web Services, Microsoft Azure, and Google Cloud Platform). Understands data requirements across SQL, NoSQL, and other data platforms; leverages a working understanding of code and scripting languages, and has experience with IT operations in always-up, always-available services.

2. Operations:

   a. Performs systems analysis, design development, and test and evaluation activities. Ensures the integration of software, hardware reliability, maintainability, safety, survivability, and human and other requirements in the total engineering effort. Selects system architectures, allocates requirements, and prepares specifications in support of development efforts.

b. Responsible for the upkeep, configuration, and reliable operation of computer systems and related software. Implements standards for computer operations for compatibility between hardware and software, as well as security of the system and network. Troubleshoots and resolves software, operating system, and networking problems. Schedules, performs, and monitors backups and other essential processes.

Minimum Education: Master’s Degree
Information Technology and Systems Engineer Level 2

Minimum/General Experience: 3 years

Functional Responsibility: Develops and/or supports development of software applications, mobile apps, websites, and databases and/or maintains operational systems. Under general supervision, carries out progressively more complex assignments associated with projects or group operations and may manage individual tasks.

May have responsibility for one or more of the following areas:

1. Development:
   a. Responsible for some or all facets of the software development process, including the research, design, programming, and Quality Assurance (QA) testing of computer software.
   b. Uses a wide variety of open source technologies and cloud services (including Amazon Web Services, Microsoft Azure, and Google Cloud Platform). Understands data requirements across SQL, NoSQL, and other data platforms; leverages a working understanding of code and scripting languages, and has experience with IT operations in always-up, always-available services.

2. Operations:
   a. Performs systems analysis, design development, and test and evaluation activities. Ensures the integration of software, hardware reliability, maintainability, safety, survivability, and human and other requirements in the total engineering effort. Selects system architectures, allocates requirements, and prepares specifications in support of development efforts.
   b. Responsible for the upkeep, configuration, and reliable operation of computer systems and related software. Implements standards for computer operations for compatibility between hardware and software, as well as security of the system and network. Troubleshoots and resolves software, operating system, and networking problems. Schedules, performs, and monitors backups and other essential processes.

Minimum Education: Bachelor’s Degree

Information Technology and Systems Engineer Level 1

Minimum/General Experience: 0 years

Functional Responsibility: Develops and/or supports development of software applications, mobile apps, websites, and databases and/or maintains operational systems. Under supervision of a manager or project manager, translates technical guidance received for implementation.

May have responsibility for one or more of the following areas:

1. Development:
   a. Responsible for some or all facets of the software development process, including the research, design, programming, and Quality Assurance (QA) testing of computer software.
   b. Uses a wide variety of open source technologies and cloud services
(including Amazon Web Services, Microsoft Azure, and Google Cloud Platform). Understands data requirements across SQL, NoSQL, and other data platforms; leverages a working understanding of code and scripting languages, and has experience with IT operations in always-up, always-available services.

2. Operations:
   a. Performs systems analysis, design development, and test and evaluation activities. Ensures the integration of software, hardware reliability, maintainability, safety, survivability, and human and other requirements in the total engineering effort. Selects system architectures, allocates requirements, and prepares specifications in support of development efforts.
   
   b. Responsible for the upkeep, configuration, and reliable operation of computer systems and related software. Implements standards for computer operations for compatibility between hardware and software, as well as security of the system and network. Troubleshoots and resolves software, operating system, and networking problems. Schedules, performs, and monitors backups and other essential processes.

Minimum Education: Bachelor’s Degree

**Subject Matter Expert 4**

**Minimum/General Experience:** 10 years  

**Functional Responsibility:** The Subject Matter Expert has industry experience in the relevant subject matter. This individual leverages expertise and industry understanding in fulfilling the customer requirements. The Subject Matter Expert is highly experienced in the specific technology and industry. Subject Matter Experts provide comprehensive levels of experience and knowledge to creatively solve business problems. Plans, conducts, and supervises company operations or highly complex projects with major significance. Supplies technical advice, direction, and counsel to other professionals or the public. Generally operates with wide latitude and actions are unreviewed.

**Minimum Education:** PhD

**Subject Matter Expert 3**

**Minimum/General Experience:** 6 years  

**Functional Responsibility:** The Subject Matter Expert has industry experience in the relevant subject matter. This individual leverages expertise and industry understanding in fulfilling the customer requirements. The Subject Matter Expert is highly experienced in the specific technology and industry. Subject Matter Experts provide comprehensive levels of experience and knowledge to creatively solve business problems. Under minimal supervision, plans, conducts, and manages assignments/projects. Supplies technical advice, direction, and counsel to co-workers and project managers. Operates with latitude.

**Minimum Education:** Master’s Degree
Subject Matter Expert 2

**Minimum/General Experience:** 3 years

**Functional Responsibility:** The Subject Matter Expert has industry experience in the relevant subject matter. This individual leverages expertise and industry understanding in fulfilling the customer requirements. The Subject Matter Expert is highly experienced in the specific technology and industry. Subject Matter Experts provide comprehensive levels of experience and knowledge to creatively solve business problems. Under general supervision, carries out progressively more complex assignments associated with projects or group operations and may manage individual tasks.

**Minimum Education:** Bachelor’s Degree

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Subject Matter Expert 1

**Minimum/General Experience:** 0 years

**Functional Responsibility:** The Subject Matter Expert has industry experience in the relevant subject matter. This individual leverages expertise and industry understanding in fulfilling the customer requirements. The Subject Matter Expert is highly experienced in the specific technology and industry. Subject Matter Experts provide comprehensive levels of experience and knowledge to creatively solve business problems. Under supervision of a manager or project manager, translates technical guidance received for implementation.

**Minimum Education:** Bachelor’s Degree