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:
http://www.gsaadvantage.gov

Special Item Number (SIN):
54151S --- Information Technology Professional Services
54137GEO- --- Earth Observation Solutions

VNuIT
5425 Mission Rd.
Bonsall, CA 92003
Contract Administrator: Paramjyoti Kakileti
E-mail: pkakileti@vnuit.com
Phone: 347-468-7313
Website: www.vnuit.com

Contract Number: 47QTCA20D00E5

Period Covered by Contract: August 27, 2020 through August 26, 2025

Business Size: 8(a), Women Owned Disadvantaged Small Business
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Versatile and Nucleus in Information Technology
5425 Mission Rd Bonsall CA 92003
www.vnuit.com
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</thead>
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<tr>
<td>54151S</td>
<td>Information Technology Professional Services</td>
</tr>
<tr>
<td>541370GEO</td>
<td>Earth Observation Solutions</td>
</tr>
</tbody>
</table>

1b. LOWEST PRICED ITEM. (Government net price based on a unit of one) See Pricelist

1c. HOURLY RATES: See Pricelist. (Includes discount and IFF)

2. MAXIMUM ORDER GUIDELINE.

54151S- $500,000 per order
541370GEO - $1M per order

3. MINIMUM ORDER. $100 per order or negotiated at the task order level.

NOTE TO ORDERING ACTIVITIES: *If the best value selection places your order over the Maximum Order identified in this catalog/pricelist, you have an opportunity to obtain a better schedule contract price. Before placing your order, contact the aforementioned contactor for a better price. The contractor may (1) offer a new price for this requirement (2) offer the lowest price available under this contract or (3) decline the order. A delivery order that exceeds the maximum order may be placed under the schedule contract in accordance with FAR 8.404.

4. GEOGRAPHIC COVERAGE. 48 States, Washington DC

5. PRODUCTION POINT. N/A

6. DISCOUNT FROM LIST PRICES OR STATEMENT OF NET PRICE.

GSA Net Prices are shown on the attached GSA Pricelist. Negotiated discount has been applied.

7. QUANTITY DISCOUNTS. 1.5% > $150,000

8. PROMPT PAYMENT TERMS. Net 30.

9a. GOVERNMENT PURCHASE CARDS.
Accepted at or below the micro-purchase threshold
9b. GOVERNMENT PURCHASE CARDS. Accepted above the micro-purchase threshold

10. FOREIGN ITEMS. None

11a. TIME OF DELIVERY. 30 days or negotiated at the task order level

11b. EXPEDITED DELIVERY. 15 days or negotiated at the task order level.

11c. OVERNIGHT AND 2-DAY DELIVERY. As mutually agreed on between the vendor and ordering activity.

11d. URGENT REQUIREMENTS. As mutually agreed on between the vendor and ordering activity.

12. FOB POINT. Destination

13a. ORDERING ADDRESS. 5425 Mission Rd., Bonsall, CA 92003

13b. ORDERING PROCEDURES. Ordering activities shall use the ordering procedures of Federal Acquisition Regulation (FAR) 8.405 when placing an establishing BPA for services. These procedures apply to all schedules. (BPA attached)
   a. FAR 8.405-2 Ordering procedures for services requiring a statement of work.

14. PAYMENT ADDRESS. 5425 Mission Rd., Bonsall, CA 92003

15. WARRANTY PROVISION. Contractor's standard commercial warranty.

16. EXPORT PACKING CHARGES. Not applicable

17. TERMS AND CONDITIONS OF GOVERNMENT PURCHASE CARD ACCEPTANCE. See 9a and 9b above.
18. TERMS AND CONDITIONS OF RENTAL, MAINTENANCE, AND REPAIR. Not applicable

19. TERMS AND CONDITIONS OF INSTALLATION. Not applicable.

20. TERMS AND CONDITIONS OF REPAIR PARTS INDICATING DATE OF PARTS PRICE LISTS AND ANY DISCOUNTS FROM LIST PRICES. Not applicable

20a. CUSTOMER INFORMATION. Not applicable

21. LIST OF SERVICE AND DISTRIBUTION POINTS. Not applicable

22. LIST OF PARTICIPATING DEALERS. Not applicable

23. PREVENTIVE MAINTENANCE. Not applicable

24a. SPECIAL ATTRIBUTES SUCH AS ENVIRONMENTAL ATTRIBUTES. Not applicable

24b. INDICATE SECTION 508 COMPLIANCE INFORMATION IS AVAILABLE ON ELECTRONIC AND INFORMATION TECHNOLOGY SUPPLIES AND SERVICES. www.Section508.gov/

25. DATA UNIVERSAL NUMBER SYSTEM (DUNS) NUMBER. 079205975

26. NOTIFICATION REGARDING REGISTRATION IN SYSTEM FOR AWARD MANAGEMENT (SAM), PREVIOUSLY CENTRAL CONTRACTOR REGISTRATION (CCR) DATABASE. Registration valid
LABOR CATEGORY DESCRIPTIONS

Earth Observation Solutions Intern

<table>
<thead>
<tr>
<th>Minimum Education:</th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Years’ Experience:</td>
<td>1 Year+ Experience in ArcGIS Pro, ArcGIS Server, Python Scripting, Google Earth</td>
</tr>
</tbody>
</table>

Responsibilities:
- Prepare maps and data to support our efforts to protect
- Create maps using ArcGIS and Google Earth Pro
- Assist with field work, inventories, and data collection
- Request information from, and communicate with, federal, state, and local agencies
- Performs tasks that are valuable and necessary to the assigned department, such as, computation, programming/scripting/coding, and GIS data analysis
- Assists in research, analysis, review and other related activities in the Planning and GIS department

Earth Observation Solutions Analyst – Level 1

<table>
<thead>
<tr>
<th>Minimum Education:</th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Years’ Experience:</td>
<td>3 Year+ of Experience in ArcGIS Pro, ArcGIS Server, Python Scripting, Google Earth, Oracle, SQL Server</td>
</tr>
</tbody>
</table>

Responsibilities:
- Create, collect, convert, and integrate geospatial datasets
- Review project scopes, identify needs, and direct the QC/Data Management of projects.
- Configure & run geoprocessing tools to detect and correct missing or inaccurate data.
- Set up and train other staff on the use of GPS hardware and best practices.
- Operation and maintenance of project related GIS data
- Produces data analyses, data conversions, and cartographic models and map products to support project development, construction, and operation
- Use creative problem solving to troubleshoot GIS solutions for engineering applications
- Prepare hard copy and electronic figures and field maps in ArcGIS

Earth Observation Solutions Analyst – Level 2
<table>
<thead>
<tr>
<th><strong>Minimum Education:</strong></th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Minimum Years’ Experience:</strong></td>
<td>7 Year+ of Experience in ArcGIS Pro, ArcGIS Server, Python Scripting, Microsoft.Net, Google Earth, Oracle, SQL Server</td>
</tr>
<tr>
<td><strong>Responsibilities:</strong></td>
<td></td>
</tr>
<tr>
<td>• Manage geospatial analysis projects through cross-team coordination</td>
<td></td>
</tr>
<tr>
<td>• Create, collect, convert, and integrate geospatial datasets</td>
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</tr>
<tr>
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</tr>
<tr>
<td>• Produces data analyses, data conversions, and cartographic models and map products to support project development, construction, and operation</td>
<td></td>
</tr>
<tr>
<td>• Use creative problem solving to troubleshoot GIS solutions for engineering applications</td>
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<tr>
<td>• Provides real time coaching, mentoring, and support to new editors, including knowledge of new material in a rapidly changing environment</td>
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<tr>
<td>• Conduct consistency training to support changing needs of the team for editing and uploading data</td>
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<tr>
<td>• Onboard vendors, including traveling for trainings</td>
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<table>
<thead>
<tr>
<th><strong>Earth Observation Solutions Analyst – Level 3</strong></th>
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<tbody>
<tr>
<td><strong>Minimum Education:</strong></td>
<td>BA/BS in Computer Science, Geography, Engineering or equivalent</td>
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<tr>
<td><strong>Responsibilities:</strong></td>
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<tr>
<td>• Design, develop, and deliver GIS related solutions.</td>
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<tr>
<td>• Supervise GIS staff on a project by project basis. Report progress. Identify and resolve showstoppers.</td>
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</tr>
<tr>
<td>• Interface with clients to understand their requirements. Translate it into a scope of work and lead the development process to deliver the items desired.</td>
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<tr>
<td>• Uses advanced spatial analysis, data manipulation, or cartography software to perform geospatial data building, modeling, or analysis.</td>
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</tr>
</tbody>
</table>
- Designs, or coordinates the development of, integrated GIS spatial and non-spatial databases.
- Reviews the currency, accuracy, usefulness, quality, and completeness of documentation of existing or incoming and outgoing GIS data.
- Participate in responding to proposals, developing cost estimates, and schedule. Support developing material in interview process.
- Attend conferences and present the work performed for the client.
- Ability to maintain and modify existing GIS databases.
- Provides users or clients with technical support and training related to the maintenance, development, or operation of GIS databases, equipment, or applications.
- Performs other related duties as assigned.

Earth Observation Solutions Specialist – Level 2

<table>
<thead>
<tr>
<th>Minimum Education:</th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
</tr>
</thead>
</table>

Responsibilities:
- Create maps, charts, tables, graphs and graphics using GIS and related software.
- Identify attributes to be associated with mapped features and link to features as data are collected, surveyed or drafted.
- Conduct data analysis utilizing GIS tools to clarify and communicate spatial relationships and present results in a clear, appropriate, manner.
- Collaborate with clients on data collection and analysis methods. Determine additional data and collection reporting requirements.
- Assist with development of GIS applications or improves existing query and analysis tools supporting clients for information retrieval, analysis and presentation.
- Software training including preparation and implementation of training materials and assisting clients with technical and data related issues.
- Lead the development of GIS map products to meet user needs.
- Prepare, provide and update maps and data sets.
- Communicate with people from different departments to gather data then identify client requirements and design, maintain or enhance online, self-service GIS applications for clients to access information and perform data analysis.
• Analyze and integrate spatial data for geographic statistics to incorporate into documents and reports.
• Create automation scripts to process data conversion.
• Develop and maintain enterprise geodatabases. Conduct research to locate and obtain existing databases. Correct data to ensure highest degree of accuracy.
• Review and ensure that data developed by and/or obtained by staff are accurate and documented using industry adopted metadata standards.
• Create metadata, procedure documentation, training guide…etc.

### Earth Observation Solutions Tester – Level 1

**Minimum Education:**

| BA/BS in Computer Science, Geography, Engineering or equivalent |

**Minimum Years' Experience:**

| 3 Year+ of Experience in ArcGIS Pro, ArcGIS Portal, Google Earth, Python Scripting, Esri Mobile Solutions, Oracle, SQL Server, HP ALM. |

**Responsibilities:**

- Creating, maintenance and evaluation of software automation test scripts (including incorporation of dynamic test data)
- Gathering and validating application functional/performance/load requirements
- Creation and maintenance of test plans and test cases
- Execution, as required, of manual and automated software testing in areas involving installation, functional, performance and load, integration, and regression testing
- Management of defects within a corporate defect tracking system
- Documentation of process improvements regarding best practices regarding test automation
- Creation of test reports
- Maintenance of all test documentation
- Coordination and prioritization of test development activities and the ability to work with multiple development teams and software projects are also critical for the selected candidate.
- Ability to troubleshoot independently both software and operating system level installation and configuration issues
- Ability to train others regarding automation test concepts; plus providing guidance and direction as needed
<table>
<thead>
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<tbody>
<tr>
<td><strong>Minimum Education:</strong></td>
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<tr>
<td><strong>Minimum Years’ Experience:</strong></td>
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<tr>
<td><strong>Responsibilities:</strong></td>
</tr>
<tr>
<td>• Responsible for working with the Enterprise Technology Quality Assurance Team on development projects of varying magnitude.</td>
</tr>
<tr>
<td>• Assists Quality Control and Quality Assurance personnel in the use of standard test methodology, development and execution of test scripts, defect reporting, and may perform testing collaboration tasks.</td>
</tr>
<tr>
<td>• Participates in Requirements reviews (Business, Technical, Functional, and Design), evaluates and generates test cases, write test scripts and estimates target completion dates.</td>
</tr>
<tr>
<td>• Execute test scripts as documented in Test Plan.</td>
</tr>
<tr>
<td>• Prepare and/or locate test data to meet test case criteria.</td>
</tr>
<tr>
<td>• Meet script execution goals as outlined and directed by team lead.</td>
</tr>
<tr>
<td>• Update and maintain test scripts as necessary.</td>
</tr>
<tr>
<td>• May require collaboration with Automation Team Engineers to develop effective test strategies, scripts, and test plans.</td>
</tr>
<tr>
<td>• Identify, validate, and report defects and verify fixes and/or enhancements.</td>
</tr>
<tr>
<td>• May require direct communication with Development teams and assistance with defect troubleshooting.</td>
</tr>
<tr>
<td>• Participate in team or project meetings as directed by Team Lead.</td>
</tr>
<tr>
<td>• Report individual work progress, test status, or issues to Quality Control Team Lead. Assists with validating changes migrated to all test environment(s) appropriately, and/or new environment(s) connectivity, and confirm environment test readiness for various Quality Assurance test phases.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Earth Observation Solutions Business Analyst – Level 2</th>
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<tbody>
<tr>
<td><strong>Minimum Education:</strong></td>
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<tr>
<td><strong>Minimum Years’ Experience:</strong></td>
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</table>
Responsibilities:

- Support all phases of the project and software lifecycles including requirements gathering, vendor selection, functional and technical designs, deployment, and eventual ongoing Operations & Maintenance of customer’s Advanced Distribution Management System (ADMS).
- The candidate understanding of customer’s business requirements for the stated business functions is critical. Detailed and demonstrated business analysis experience is required.
- Act as a liaison must collaborate with software vendors, system integrators, customer IT and Cyber Security, and business Subject Matter Experts (SME) to implement ADMS.
- Once ADMS is operational, this position will provide tier 1 level support for these functions of ADMS and support/maintain the customer's product roadmap for ADMS.
- Maintain in-depth knowledge of the product and solutions and provide direction and input on the technology roadmap. Responsible for participating in the development of and subsequently maintaining ADMS System Configurations.
- Interface with multiple clients to ensure critical needs are met quickly and efficiently including vendors and consultants; manage time appropriately in a time-sensitive operations environment. Position will be considered a key contact for ADMS.

---

Earth Observation Solutions Trainer – Level 3

Minimum Education: BA/BS in Computer Science, Geography, Engineering or equivalent

Minimum Years’ Experience: 10 Years of Experience in ArcGIS Pro, ArcGIS Portal, Google Earth, Python Scripting, Esri Mobile Solutions, Oracle, SQL Server, HP ALM, Visio.

Responsibilities:

- Work across departments to determine needs, design, and best implementation practices for technical training to meet the needs of customers.
- Design and develop training programs.
- Conduct remote (online) and onsite training for customers, facilitate the use of training tools to meet learning objectives.
- Select appropriate training methods or activities (e.g. onsite, remote, one-on-one, professional development classes)
- Evaluate training programs for customer satisfaction, and modify training materials for maximum results by assessing instructional effectiveness and determine the impact of
training on customer skills and evaluate training results and potential new training opportunities

- Stay abreast of changes to software systems and incorporate changes into training materials, ensuring that training materials are up to date.
- Map out training plans for internal new hires and market available training to employees in accordance to company's needs and provide necessary information about sessions.
- Use known education principles and stay up to date on new training methods and techniques.
- Design, prepare and order educational aids and materials
- Partner with internal stakeholders and liaise with experts regarding instructional design to improve quality of training.
- Maintain updated curriculum database and training records
- Host train-the-trainer sessions if needed.
- Manage and maintain in-house training facilities, equipment, and materials
- Work closely with the marketing area on the company's Learning Management System.

---

**Earth Observation Solutions Desktop Developer – Level 1**

**Minimum Education:** BA/BS in Computer Science, Geography, Engineering or equivalent

**Minimum Years' Experience:** 3 Year+ of Experience in Microsoft.Net (C#, VB.Net), ArcObjects, ArcGIS Pro, Google Earth, Python Scripting, Esri Mobile Solutions, Oracle, SQL Server, HP ALM, Visio.

**Responsibilities:**

- Work with a team of like-minded professionals to create and deploy mission critical applications by designing and developing compelling analytical applications. These applications will be used by geospatial analysts to create intelligence-based GIS products.
- Design and implement appropriate environments for those applications, engineer suitable release management procedures, and provide production support.
- Design and develop automation workflows, perform unit tests and conduct review to make sure your work is rigorously designed, elegantly coded, and effectively tuned for platform performance, and assess the overall quality of delivered component.
- Design, implement, and maintain databases for geospatial production.
- Work with the Information Technology (IT) department to design and troubleshoot software and hardware solutions.

---

### Earth Observation Solutions Desktop Developer – Level 2

**Minimum Education:**
- BA/BS in Computer Science, Geography, Engineering or equivalent

**Minimum Years’ Experience:**
- 7 Year+ Experience in Microsoft.Net (C#, VB.Net), ArcObjects, ArcGIS Pro, Google Earth, Python Scripting, Esri Mobile Solutions, Oracle, SQL Server, HP ALM, Visio.

**Responsibilities:**
- Work with a team of like-minded professionals to create and deploy mission critical applications by designing and developing compelling analytical applications. These applications will be used by geospatial analysts to create intelligence-based GIS products.
- Design and implement appropriate environments for those applications, engineer suitable release management procedures, and provide production support.
- Design and develop automation workflows, perform unit tests and conduct review to make sure your work is rigorously designed, elegantly coded, and effectively tuned for platform performance, and assess the overall quality of delivered component.
- Design, implement, and maintain databases for geospatial production.
- Work with the Information Technology (IT) department to design and troubleshoot software and hardware solutions.

---

### Earth Observation Solutions Desktop Developer – Level 3

**Minimum Education:**
- BA/BS in Computer Science, Geography, Engineering or equivalent

**Minimum Years’ Experience:**
- 10+ Years of Experience in Microsoft.Net (C#, VB.Net), ArcObjects, ArcGIS Pro, Google Earth, Python Scripting, Esri Mobile Solutions, Oracle, SQL Server, HP ALM, Visio.

**Responsibilities:**
- Work with a team of like-minded professionals to create and deploy mission critical applications by designing and developing compelling analytical applications. These applications will be used by geospatial analysts to create intelligence-based GIS products.
• Design and implement appropriate environments for those applications, engineer suitable release management procedures, and provide production support.
• Design and develop automation workflows, perform unit tests and conduct review to make sure your work is rigorously designed, elegantly coded, and effectively tuned for platform performance, and assess the overall quality of delivered component.
• Design, implement, and maintain databases for geospatial production.
• Work with the Information Technology (IT) department to design and troubleshoot software and hardware solutions.
• Create technical and functional design documents
• Supporting Esri extensions and workflows
• Report issues in HP Quality Center, Status and communicate risks to stakeholders
• Good communication and interpersonal skills for consulting with users to understand needs, define requirements, and provide effective solutions
• Ability to work both as a team member, and independently on complex tasks, to maintain project timelines deliver on commitments

Earth Observation Solutions Web Developer – Level 1

Minimum Education: BA/BS in Computer Science, Geography, Engineering or equivalent


Responsibilities:
• Design and develop enterprise applications from start to finish; tasks include coding, testing, debugging, documenting and installing applications.
• Design and implement feasible solutions to satisfy user needs
• Create relevant documentation and updates pertaining to systems processing
• Plans, designs, develop and tests software systems or applications for software enhancements and new products.
• Analyzes, programs, and modifies software enhancements and/or new products used in local, networked, or Internet-related computer programs.
• Strong communication skills (with other analysts and clients).
• Work with internal teams to resolve testing issues and bug fixes.
### Earth Observation Solutions Web Developer – Level 3

**Minimum Education:**
BA/BS in Computer Science, Geography, Engineering or equivalent

**Minimum Years’ Experience:**
8+ Years of Experience in Microsoft.Net (C#, VB.Net), ArcGIS Portal, JavaScript API, REST, DOJO, JASON, Python Scripting, Oracle, SQL Server, HP ALM, Visio.

**Responsibilities:**
- Developer should utilize industry best practices for upgrading, identifying, designing, developing, and deploying .Net/ArcGIS Server Web GIS Solutions to satisfy enterprise needs
- Develop Web GIS Solutions and Create Map services and publish GIS applications using JavaScript API, REST, DOJO, JASON, HTML, CSS
- Upgrade, Customize/develop ArcGIS Server/ArcFM (Electric/Gas/Water Utility) applications and tools
- Experience and knowledgeable of understanding of work management business application
- Collaboration with technical and subject matter experts to gain an understanding of requirements/design and provide input from a software development perspective
- Troubleshooting ArcSDE for connectivity, access, performance and other issues
- Support versioning, compression, replication and Indexes
- Work with the Oracle DBA to design and configure the database
- Create technical and functional design documents
- Supporting Esri extensions and workflows
- Report issues in HP Quality Center, Status and communicate risks to stakeholders
- Good communication and interpersonal skills for consulting with users to understand needs, define requirements, and provide effective solutions
- Ability to work both as a team member, and independently on complex tasks, to maintain project timelines deliver on commitments

### Earth Observation Solutions Mobile Developer – Level 2

**Minimum Education:**
BA/BS in Computer Science, Geography, Engineering or equivalent

**Minimum Years’ Experience:**
8+ Years of Experience in Microsoft.Net (C#, VB.Net), JavaScript API, REST, DOJO, JASON, Python Scripting, ArcGIS Mobile
### Responsibilities:
- Developer should utilize industry best practices for upgrading, identifying, designing, developing, and deploying .Net/ArcGIS Mobile and Server Solution to satisfy enterprise needs
- Develop Mobile GIS applications using Esri Mobile SDK, ArcGIS Collector and Survey123
- Upgrade, Customize/develop ArcGIS Mobile/Server(Electric/Gas utility) applications and tools
- Collaboration with technical and subject matter experts to gain an understanding of requirements/design and provide input from a software development perspective
- Report issues in HP Quality Center, Status and communicate risks to stakeholders
- Good communication and interpersonal skills for consulting with users to understand needs, define requirements, and provide effective solutions
- Ability to work both as a team member, and independently on complex tasks, to maintain project timelines deliver on commitments

### Earth Observation Solutions Lead Support Analyst – Level 3

<table>
<thead>
<tr>
<th>Minimum Education:</th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
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</thead>
</table>

### Responsibilities:
- Experience with requirement gathering, reporting, mapping and process flows, ability to interpret business processes
- Experience with Linear Reference System, Calibration Points, Stationing, Equation Points, PODS Database, and exposure to Utility Pipeline Data Model and ArcGIS for Pipeline Referencing
- Experience using ArcGIS 10.5.1, ArcGIS Pro, Esri Workflow Manager(a plus), advanced geospatial analysis and knowledge of Python
- Data Management and Analysis - acquire, maintain data and perform complex spatial analysis using GIS technologies.
- Ability to create map products, analysis for web and ad-hoc requests
- Regulatory Compliance - coordinate Company response to applicable regulatory reporting requirements.
- New Technologies - research new GIS technologies. Recommend and implement technological solutions to meet business needs.
- Technical Support - provide technical support to Geographic Services and other Gas Engineering organizations.
- Must be able to clearly and concisely communicate, both orally and written, technical and non-technical information to all levels of management in both formal and informal settings.
- Must possess the ability to effectively interact with various departments to maintain open lines of communication and work on multiple projects.

### Earth Observation Solutions Systems Administrator – Level 3

<table>
<thead>
<tr>
<th>Minimum Education:</th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
</tr>
</thead>
</table>

**Responsibilities:**
- Administer Systems and Applications in ArcGIS Enterprise Environment
- Advanced knowledge and hands-on experience working with VMware in a large enterprise environment
- Knowledge of and experience with PowerCLI, vCO, vRA, or other automating tools
- Deploy and manage Kubernetes environments such as VMware Enterprise PKS and Red Hat OpenShift
- Strong knowledge of Windows scripting including PowerShell, Batch, and VBS
- In-depth knowledge of and experience with platform hardware and OS level support
- Understanding of enterprise class SAN, NAS, and backup technologies
- Solid knowledge of load balancing, clustering, and name lookup (DNS) and troubleshooting skills
- Ability to diagnose hardware/OS problems and to optimize system setups for complex application environments
- Capable of writing proposals, procedures, policies, and technical documentation
- Experience with Windows Server and Linux (Red Hat Linux and Red Hat Enterprise Linux a plus)
Earth Observation Solutions Database Administrator – Level 3

**Minimum Education:**
- BA/BS in Computer Science, Geography, Engineering or equivalent

**Minimum Years’ Experience:**

**Responsibilities:**
- Provide solution architecture, systems, engineering, administration & software engineering including application & data architecture expertise for ArcGIS Server environment.
- Defines the requirements and systems architecture necessary to support the business objectives.
- Ensure GIS standard platform services to establish base architectures to be implemented in support of various GIS application development efforts.
- Manage and Maintain ESRI Spatial Data
- Support and understand ESRI Versioning, Compression and Reconciliation
- Manage ESRI Replication
- Demonstrable understanding of geometrical networks, relationship classes and spatial indexes.
- Proficiency in ArcSDE configuration and upgrades
- Resolve database performance issues as they relate to data distribution and replication
- Work closely the GIS SDE/SQL database administrator in support of the SQL Server database.
- Provide technical standards including tools & platforms for application development.
- Create and maintain system operational documents.
- Identifies, tests and resolves complex system issues (e.g. monitoring and tuning).
- Perform asset management of all GIS systems-ArcGIS Server, SDE database Server and ArcGIS desktop, scheduling installations, upgrades and maintain them in accordance to established IT policies and procedures.
- Support, maintain and optimization of GIS systems, databases and models.
- Work alongside senior engineers to accurately model the distribution system.
**Earth Observation Solutions Project Manager – Level 3**

<table>
<thead>
<tr>
<th>Minimum Education:</th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
</tr>
</thead>
</table>

**Responsibilities:**

- Planning and budgeting for all GIS activities.
- Overall management of personnel assigned to GIS Teams.
- Investigating and proposing future GIS Team activities.
- Providing an interface between off-shore, IT and GIS staff.
- Monitoring the performance of all GIS Team members.
- Monitoring the performance of the products and services provided by the GIS Team including throughput and turnaround time.
- Making periodic reports to management on GIS activities.
- Evaluating technological advances and promoting usage of appropriate technology and applications among various end-users.
- Developing and implementing policies and procedures to guide operations.
- Responsible for all budgetary matters relating to the program specifically, managing all contracts, developing, and tracking all budgets.
- Securing funding and managing all aspects of these activities.
- Meeting regularly with IT staff to coordinate interface and utilization of data within IT.
- Ensuring the quality of GIS products and services (e.g., standards development).
- Hiring and training the GIS Team staff.
- Promoting the GIS Team to the organization and marketing it to individual user departments, by means of presentations, preparation of brochures, follow-up visits to customer areas and the like.
### IT Web Designer – Level 2

<table>
<thead>
<tr>
<th>Minimum Education:</th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Years’ Experience:</td>
<td>5 Year+ of Experience in Axure, InVision, and Adobe XD, HTML, AJAX, CSHTML, XHTML, CSS, JQuery, JavaScript, Visio.</td>
</tr>
</tbody>
</table>

**Responsibilities:**

- Design wire-frames, graphics and prototypes for mobile responsive websites
- Design complete website UI working within themes and templates
- Setting up and configuring Shopify and its Apps
- Communicate with clients and internal team on various projects as needed
- Plan and schedule workload to complete projects by deadline
- Managing projects and collaborating with frontend developers

### IT .NET Developer – Level 2

<table>
<thead>
<tr>
<th>Minimum Education:</th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Years' Experience:</td>
<td>5 Year+ of Experience in C#, Angular JS, .NET - OOPS, Exception Handling, Multithreading, HTML, CSS, JavaScript, Oracle, SQL Server Visio.</td>
</tr>
</tbody>
</table>

**Responsibilities:**

- Design and develop front end Microsoft ASP .NET
- Design and develop front end Angular web logic
- Design and develop front end CSS/HTML5 web logic
- Become an expert in our chosen Content Management System (CMS)
- Participate in customer design conference calls and meetings
- Track all projects within Microsoft Visual Studio Team Services
- Design and develop back end Microsoft SQL Server database objects
- Design and develop back end Microsoft C# logic
### IT Test Analyst – Level 3

<table>
<thead>
<tr>
<th>Minimum Education:</th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Years’ Experience:</td>
<td>8 Year+ of Experience in Testing Enterprise Solutions, Oracle, SQL Server, HP ALM, Visio, JIRA</td>
</tr>
</tbody>
</table>

**Responsibilities:**
- Responsible for working with the Enterprise Technology Quality Assurance Team on development projects of varying magnitude.
- Assists Quality Control and Quality Assurance personnel in the use of standard test methodology, development and execution of test scripts, defect reporting, and may perform testing collaboration tasks.
- Participates in Requirements reviews (Business, Technical, Functional, and Design), evaluates and generates test cases, write test scripts and estimates target completion dates.
- Execute test scripts as documented in Test Plan.
- Prepare and/or locate test data to meet test case criteria.
- Meet script execution goals as outlined and directed by team lead.
- Update and maintain test scripts as necessary.
- May require collaboration with Automation Team Engineers to develop effective test strategies, scripts, and test plans.
- Identify, validate, and report defects and verify fixes and/or enhancements.
- May require direct communication with Development teams and assistance with defect troubleshooting.
- Participate in team or project meetings as directed by Team Lead.
- Report individual work progress, test status, or issues to Quality Control Team Lead. Assists with validating changes migrated to all test environment(s) appropriately, and/or new environment(s) connectivity, and confirm environment test readiness for various Quality Assurance test phases.

### IT Oracle Database Developer – Level 1

<table>
<thead>
<tr>
<th>Minimum Education:</th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Years’ Experience:</td>
<td>3 Year+ of Experience in Developing Enterprise Solutions, Oracle, PL/SQL, SQL Server, HP ALM, Visio, JIRA</td>
</tr>
</tbody>
</table>

**Responsibilities:**
**IT SAP ABAP Developer – Level 2**

**Minimum Education:**
BA/BS in Computer Science, Geography, Engineering or equivalent.

**Minimum Years’ Experience:**
7 Year+ of Experience in SAP ABAP, SAP S/4 HANA, SAP Forms/SAP Script, ALV reporting, PI/PO Integration, Oracle, PL/SQL, SQL Server, HP ALM, Visio, JIRA.

**Responsibilities:**
- Research, analyze, gather, implement and support SAP applications and solutions including integration between SAP and non-SAP Systems.
- Utilize expertise in inbound and Outbound Interfaces, Enhancements and Modifications and implement applications using tools such as SAP ECC 6.0, SAP CRM 5/6/7, SAP MDG 7/8 Versions, Net Weaver 7 and above, Webservices, OO ABAP, ABAP Webdynpro, XI 3.0/PI 7.0/7.1, XML, Enterprise Portal(EP), SAP Gateway, HANA, S/4 HANA, SAP Cloud Platform, Fiori, SAP-UI5 and upgrade SAP R/3 ECC ABAP using SAP and Non-SAP Databases.
- Work with project managers, business owners, business analysts and work closely with cross functional SAP & Non-SAP teams.
- Manage multiple projects for various clients worldwide
- Provide onsite or remote consulting and training
- Maintain detail-oriented updates to project plans for implementations, and provide internal and external status on a frequent basis, and when necessary, provide escalated support for issues on an onsite, offsite or on-call basis.

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**IT Project Manager – Level 1**
<table>
<thead>
<tr>
<th>Minimum Education:</th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Years’ Experience:</td>
<td>6 Years of Experience in experience developing and/or delivering Project Management Office (PMO) services such as portfolio management, governance, project reporting and Experience with ITIL, Agile or Scrum Awareness of business improvement methodologies, such as Lean Six</td>
</tr>
</tbody>
</table>

**Responsibilities:**

- Manage multiple streams of work that include Requirements Gathering, Application Development and Maintenance, Infrastructure, Technology Refresh, Information Security, along with providing new solutions to support Business
- Capture business and functional requirements and write clear
- Define and facilitate Quality Assurance (QA) and User Acceptance Testing (UAT).
- Support releases through Change Control and
- Support the development of training and OCM
- Manage internal client expectations; resolve project issues; ensure business unit is receiving appropriate and adequate communications and project
- Manage projects during the full Project Life Cycle, working closely with functional and technical teams to monitor progress and ensure solutions meet business
- Monitor and review all project economics, including costs, operational budgets, staffing requirements, resources, and
- Spearhead implementing and maintaining compliance to Security Standards and Policies, whilst observing compliance of company controls to all applications, projects, and work

**IT Program Manager – Level 3**

<table>
<thead>
<tr>
<th>Minimum Education:</th>
<th>BA/BS in Computer Science, Geography, Engineering or equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Years’ Experience:</td>
<td>15 Years of Experience in experience developing and/or delivering Project Management Office (PMO) services such as portfolio management, governance, project reporting and Experience with ITIL, Agile or Scrum Awareness of business improvement methodologies, such as Lean Six</td>
</tr>
</tbody>
</table>

**Responsibilities:**

- Ownership of the schedule and cost management on programs managed
• Holds program and proposal Kick-off Meetings, establishing baselines for planned cost, design configuration and schedule
• Lead multi-disciplinary teams within a matrixed organization
• Act as a central authority for the Company in its relationship with internal and external customers.
• Establish program status reporting to anticipate and take corrective action in problem areas before they occur, with appropriate line organization.
• Ensure pertinent written records are maintained that document all agreements / commitments related to the project.
• Actively pursue new business and will be responsible to coordinate proposal responses both formal RFPs and informal inquiries.
• Works with Engineering to analyze proposals with respect to cost/risk/quality, lead source selections and negotiation teams, and monitor subcontract costs, schedules, and technical performance.
• Reviews and approves all contractual documents for protection of company’s contractual posture, satisfaction of specifications and requirements, and adherence to company policy.
• Negotiate, manage and structure contracts/subcontracts that establish business relationships with customers, vendors and other business partners.
• Responsible for contract compliance and reporting
• Manages contract through life of program and works with internal departments to ensure compliance and/or obtain contract revisions to reflect scope growth, including associated costs and schedule impacts.
• Coordinates with and lead cross-functional Integrated Project Team (IPT) to identify program scope and requirements, perform risk assessment, establish communication methods, identify stakeholders and Roles & Responsibilities
• Create charters/plan and execute accordingly, to ensure profitability
• Responsible for budget and resource planning for assigned programs
• Participate in transition handover meeting from sales, bid management and/or product line management to development program management when necessary
• Be able to travel both domestically and internationally as needed to manage the program

<table>
<thead>
<tr>
<th>IT Pipeline SW Design Engineer – Level 2</th>
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</thead>
<tbody>
<tr>
<td><strong>Minimum Education:</strong></td>
</tr>
<tr>
<td>BA/BS in Computer Science, Geography,</td>
</tr>
<tr>
<td>Engineering or equivalent</td>
</tr>
<tr>
<td><strong>Minimum Years’ Experience:</strong></td>
</tr>
<tr>
<td>15 Years of Experience in experience</td>
</tr>
<tr>
<td>AVEVA Electrical, Instrumentation</td>
</tr>
<tr>
<td>application, AutoCAD, 3D Design Software</td>
</tr>
<tr>
<td><strong>Responsibilities:</strong></td>
</tr>
</tbody>
</table>

Versatile and Nucleus in Information Technology
5425 Mission Rd Bonsall CA 92003
www.vnuit.com
Coordinate and configure in deploying AVEVA 3D Engineering Design software for Electrical, Instrumentation, P&ID’s, Piping Design etc.

Producing engineering design deliverables (Pipeline/Structural/Electrical Plan, Piping Sections with BOM, Schematic Diagram, PLC/SCADA Rack, Material Strength Test (MST) etc)

Ensure that AVEVA suite Schematics & Engineering products (and other associated products) are robust and fit-for-purpose

Experience with configuring AVEVA Electrical, Instrumentation module administrative functions including drawing border setup, drawing properties, layering, line styles, color management, block creation, attribute definitions and file management is required

Drafting and design background required to include user practice of creation, modification and following of work processes related to production of project P&ID documents, instrumentation documents such as logic diagrams, loop diagrams, instrument and loop lists, datasheets, cable block diagrams, hookup drawings, ad-hoc reports, etc.

Manage the coordination and overall integration of technical activities in architecture or engineering projects

Direct, review, or approve project design changes

Consult or negotiate with clients to prepare project specifications

Development of customer end-user product functionality requirements

Work as an integral part of the Engineering Team

“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 IT requirements and it is solely the acquiring agency’s determination, if the substitution is considered acceptable prior to an award.

**Experience Substitutions:**

- A Bachelor’s Degree may be substituted with Associate Degree + 2 years additional relevant IT experience
- A Bachelor’s Degree may be substituted for 6 years of required relevant IT experience with a High School Diploma
A Master’s Degree may be substituted for 2 years of required relevant IT experience with a Bachelor’s Degree
A Ph.D. may be substituted with Master’s Degree + 4 years additional relevant IT experience
A Ph.D. may be substituted with a Bachelor’s Degree + 6 years relevant IT experience

PRICING
(Includes IFF)

<table>
<thead>
<tr>
<th>Labor Category/Service Title</th>
<th>August 14, 2020 to August 13, 2021</th>
<th>August 14, 2021 to August 13, 2022</th>
<th>August 14, 2022 to August 13, 2023</th>
<th>August 14, 2023 to August 13, 2024</th>
<th>August 14, 2024 to August 13, 2025</th>
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</thead>
<tbody>
<tr>
<td>Earth Observation Solutions Intern</td>
<td>$ 51.87</td>
<td>$ 53.58</td>
<td>$ 55.35</td>
<td>$ 57.18</td>
<td>$ 59.06</td>
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<tr>
<td>Earth Observation Solutions Analyst - Level 1</td>
<td>$ 72.82</td>
<td>$ 75.22</td>
<td>$ 77.70</td>
<td>$ 80.27</td>
<td>$ 82.91</td>
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<tr>
<td>Earth Observation Solutions Analyst - Level 2</td>
<td>$ 86.78</td>
<td>$ 89.64</td>
<td>$ 92.60</td>
<td>$ 95.66</td>
<td>$ 98.82</td>
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<tr>
<td>Earth Observation Solutions Analyst - Level 3</td>
<td>$ 106.73</td>
<td>$ 110.25</td>
<td>$ 113.89</td>
<td>$ 117.65</td>
<td>$ 121.53</td>
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<tr>
<td>Earth Observation Solutions Specialist - Level 2</td>
<td>$ 106.73</td>
<td>$ 110.25</td>
<td>$ 113.89</td>
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<tr>
<td>Earth Observation Solutions Tester - Level 1</td>
<td>$ 56.86</td>
<td>$ 58.73</td>
<td>$ 60.67</td>
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<tr>
<td>Earth Observation Solutions Test Lead - Level 2</td>
<td>$ 106.73</td>
<td>$ 110.25</td>
<td>$ 113.89</td>
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<tr>
<td>Earth Observation Solutions Business Analyst - Level 2</td>
<td>$ 105.73</td>
<td>$ 109.22</td>
<td>$ 112.83</td>
<td>$ 116.55</td>
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<tr>
<td>Earth Observation Solutions Trainer - Level 3</td>
<td>$ 106.73</td>
<td>$ 110.25</td>
<td>$ 113.89</td>
<td>$ 117.65</td>
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<tr>
<td>Position</td>
<td>Level</td>
<td>GSA MAS Schedule</td>
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<td>----------------------------------------------</td>
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</tr>
<tr>
<td>Earth Observation Solutions Desktop Developer</td>
<td>Level 1</td>
<td>$72.82 $75.22 $77.70 $80.27 $82.91</td>
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<tr>
<td>Earth Observation Solutions Desktop Developer</td>
<td>Level 2</td>
<td>$79.80 $82.43 $85.15 $87.96 $90.86</td>
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<tr>
<td>Earth Observation Solutions Desktop Developer</td>
<td>Level 3</td>
<td>$94.76 $97.89 $101.12 $104.46 $107.90</td>
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<tr>
<td>Earth Observation Solutions Web Developer</td>
<td>Level 1</td>
<td>$75.81 $78.31 $80.89 $83.56 $86.32</td>
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<tr>
<td>Earth Observation Solutions Web Developer</td>
<td>Level 3</td>
<td>$89.77 $92.74 $95.80 $98.96 $102.22</td>
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<tr>
<td>Earth Observation Solutions Mobile Developer</td>
<td>Level 2</td>
<td>$73.81 $76.25 $78.77 $81.36 $84.05</td>
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<tr>
<td>Earth Observation Solutions Lead Support Analyst</td>
<td>Level 3</td>
<td>$99.75 $103.04 $106.44 $109.95 $113.58</td>
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<tr>
<td>Earth Observation Solutions Systems Administrator</td>
<td>Level 3</td>
<td>$118.70 $122.62 $126.66 $130.84 $135.16</td>
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<tr>
<td>Earth Observation Solutions Database Administrator</td>
<td>Level 3</td>
<td>$113.71 $117.47 $121.34 $125.35 $129.48</td>
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<tr>
<td>Earth Observation Solutions Project Manager</td>
<td>Level 3</td>
<td>$126.68 $130.86 $135.18 $139.64 $144.25</td>
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<tr>
<td>IT Web Designer</td>
<td>Level 2</td>
<td>$104.74 $108.19 $111.76 $115.45 $119.26</td>
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<tr>
<td>IT .NET Developer</td>
<td>Level 2</td>
<td>$62.84 $64.92 $67.06 $69.27 $71.56</td>
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<tr>
<td>IT Test Analyst</td>
<td>Level 3</td>
<td>$96.76 $99.95 $103.25 $106.65 $110.17</td>
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</tr>
<tr>
<td>IT Oracle Database Developer</td>
<td>Level 1</td>
<td>$62.84 $64.92 $67.06 $69.27 $71.56</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Critical Information

SIN 54151S- N/A

SIN 54170GEO

1) SIN 541370GEO - Earth Observation Solutions

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

b) Information Assurance/Security Requirements

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

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

c) Technical Support:

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

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

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<table>
<thead>
<tr>
<th>Job Title</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
<th>Level 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT SAP ABAP Developer - Level 2</td>
<td>$146.63</td>
<td>$151.47</td>
<td>$156.47</td>
<td>$161.63</td>
<td>$166.96</td>
</tr>
<tr>
<td>IT Project Manager - Level 1</td>
<td>$62.84</td>
<td>$64.92</td>
<td>$67.06</td>
<td>$69.27</td>
<td>$71.56</td>
</tr>
<tr>
<td>IT Program Manager - Level 3</td>
<td>$161.59</td>
<td>$166.92</td>
<td>$172.43</td>
<td>$178.12</td>
<td>$184.00</td>
</tr>
<tr>
<td>IT Pipeline SW Design Engineer - Level 2</td>
<td>$127.68</td>
<td>$131.89</td>
<td>$136.24</td>
<td>$140.74</td>
<td>$145.38</td>
</tr>
</tbody>
</table>