General Services Administration
Federal Supply Service
Authorized Federal Supply Schedule Price List
Multiple Award Schedule (MAS)

Contract Number: 47QTCA22D00D4
Period of Performance: August 15, 2022 through August 14, 2027

Information Technology Category
Special Item Numbers: 54151S IT Professional Services
Special Item Numbers: 518210C Cloud Computing and Cloud

Related IT Professional Services
Special Item Numbers: 541380 Testing Laboratory Services

Advanced Global Resources, LLC
1212 Corporate Drive
Irving, TX 75038
Phone: (972) 331-6500
Website: www.agr-us.com
Business Size: Small Business
SAM UEI: SBMHUY8M2B89
DUNS: 079142314

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: GSAAAdvantage.gov.
GSA AWARDED TERMS AND CONDITIONS
Advanced Global Resources, LLC (AGR)

1a. TABLE OF AWARDED SPECIAL ITEM NUMBER (SIN):
   o 54151S IT Professional Services
   o 518210C Cloud Computing and Cloud Related IT Professional Services
   o 541380 Testing Laboratory Services
   o OLM Order-Level Materials

1b. LOWEST PRICED MODEL NUMBER AND PRICE FOR EACH SIN:
   (Government net price +IFF based on a unit of one)

1c. HOURLY RATES:

See Page 10

2. MAXIMUM ORDER: $500,000

3. MINIMUM ORDER: $100

4. GEOGRAPHIC COVERAGE: All Domestic Locations

5. POINT(S) OF PRODUCTION: US

6. DISCOUNT FROM LIST PRICES: Prices shown herein are Net (discounts deducted).

7. QUANTITY DISCOUNT: 2% on task orders over $300,000.00

8. PROMPT PAYMENT TERMS: Net 30 Days

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

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

10. FOREIGN ITEMS: None

11a. TIME OF DELIVERY:
As Negotiated

11b. EXPEDITED DELIVERY:
As Negotiated

11c. OVERNIGHT AND 2-DAY DELIVERY: As Negotiated

11d. URGENT REQUIREMENTS: As Negotiated

12. FOB POINT: Destination, 48 contiguous states and Washington, DC, as well as Alaska,
Hawaii, and Puerto Rico

13a. ORDERING ADDRESS:

AGR LLC
1212 Corporate Drive, Suite 280
Irving, TX 75038

13b. ORDERING PROCEDURES: For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's) are found in Federal Acquisition Regulation (FAR) 8.405-3

14. PAYMENT ADDRESS:

AGR, LLC
1212 Corporate Drive, Suite 280
Irving, TX 75038

15. WARRANTY PROVISION: Not Applicable

16. EXPORT PACKING CHARGES: Not Applicable

17. TERMS AND CONDITIONS OF GOVERNMENT PURCHASE CARD ACCEPTANCE: Not Applicable

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. TERMS AND CONDITIONS FOR ANY OTHER SERVICES: 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. SECTION 508 COMPLIANCE FOR EIT: Not Applicable

25. SAM UEI: SBMHYU8M2B89

26. NOTIFICATION REGARDING REGISTRATION IN SYSTEM FOR AWARD MANAGEMENT (SAM) REGISTRATION DATABASE: Advanced Global Resources, LLC is current in SAM.
### SIN 54151S INFORMATION TECHNOLOGY PROFESSIONAL SERVICES LABOR RATES

<table>
<thead>
<tr>
<th>SIN</th>
<th>Labor Category</th>
<th>Year 1 (GSA PRICE + IFF)</th>
<th>Year 2 (GSA PRICE + IFF)</th>
<th>Year 3 (GSA PRICE + IFF)</th>
<th>Year 4 (GSA PRICE + IFF)</th>
<th>Year 5 (GSA PRICE + IFF)</th>
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<td>54151S</td>
<td>Computer Programmer</td>
<td>$148.11</td>
<td>$151.81</td>
<td>$155.61</td>
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<td>$116.71</td>
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<td>$177.12</td>
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<td>IT Specialist</td>
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<td>$151.81</td>
<td>$155.61</td>
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<td>54151S</td>
<td>Network/Systems Engineer</td>
<td>$148.11</td>
<td>$151.81</td>
<td>$155.61</td>
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<td>Program Manager</td>
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### SIN 518210C Cloud Computing and Cloud Related IT Professional Services PROFESSIONAL SERVICES LABOR RATES

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<thead>
<tr>
<th>SIN</th>
<th>Labor Category</th>
<th>Year 1 (GSA PRICE + IFF)</th>
<th>Year 2 (GSA PRICE + IFF)</th>
<th>Year 3 (GSA PRICE + IFF)</th>
<th>Year 4 (GSA PRICE + IFF)</th>
<th>Year 5 (GSA PRICE + IFF)</th>
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<td>$177.12</td>
<td>$181.55</td>
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<td>518210C</td>
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<td>Year 2</td>
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<td>Co-Principal Investigator</td>
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<td>Coatings &amp; Corrosion Technician</td>
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<td>Asphalt Binder and Bituminous Mixtures Laboratories (ABML) Technician</td>
<td>$74.88</td>
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<tr>
<td>541380</td>
<td>Asphalt Binder and Bituminous Mixtures Laboratories (ABML) Technician</td>
<td>$74.88</td>
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</table>

**Commercial Job Title: Computer Programmer**
Minimum/General Experience: 2 Year
Functional Responsibility: Analyze business applications and design specifications. Develop block diagrams and logic flow charts. Translate detailed design into computer software. Test, debug, and refine the computer software to produce the required product. Assist in resolving basic operating problems. Prepare required documentation, including program-level and system-level documentation. Prepare instructions for computer operators. Enhance software to reduce operating time or improve efficiency. Provide software conversion and implementation support. May provide technical direction and supervision to more junior programmers.
Minimum Education: Bachelor's

**Commercial Job Title: Functional Consultant I**
Minimum/General Experience: 2 Year
Functional Responsibility: Functional consultants provide advice and support to businesses about technology that can perform critical tasks and processes. They recommend and configure technology-based solutions to address a client or organization's business needs. These consultants commonly represent a specific brand or product line or specialize in a particular type of technology. They gather information from the client to determine their challenges and priorities and then recommend programs or systems that would be beneficial to their business. They have the ability to perform programming responsibilities, product design, configuration, application development, and consulting on all IT projects, including emerging technologies.
Minimum Education: Bachelor's

<table>
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<td>SIN 541380</td>
<td>Structural – Concrete Materials Research Engineer</td>
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</table>
Commercial Job Title: Infrastructure Architect  
Minimum/General Experience: 2 Year  
Functional Responsibility: Analyze infrastructure solutions  
- Provide infrastructure analysis services to clients and/or internal stakeholders  
- Analyze and understand user needs and expectations, as well as alternative infrastructure architectures and trends  
- Conduct analyses of technology and associated operational processes, with a view to recommending infrastructure designs and strategies that will improve service, lower costs, and prevent unforeseen operational issues.

Create architectural standards  
- Interview clients technical teams to gather relevant information to facilitate architectural requirements definitions  
- Establish, explain, and validate the solution-testing criteria for projects  
- Design services in the area of technology solutions, operations architecture and Accenture standards.

Deploy solution architectures that promote a clear, consistent business vision  
- Conduct analyses of alternative architectures and define a solutions cost-of-ownership  
- Articulate key aspects of architecture and design (e.g., scalability, availability, manageability, robustness, appropriate incorporation of new technology) through models, documentation, and code; present architectures to executive management, clients, and developer teams Execute projects using various technology solutions.  
Minimum Education: Bachelors

Commercial Job Title: IT Business Analyst  
Minimum/General Experience: 2 Year  
Functional Responsibility: Responsible for collecting, analyzing, and documenting current business processes. Responsible for designing future business processes. Responsible for collecting, analyzing, and documenting application requirements. Possesses working knowledge of project management and implementation methodologies.  
Minimum Education: Bachelors

Commercial Job Title: IT Consultant  
Minimum/General Experience: 2 Year  
Functional Responsibility: The IT Consultant partner with clients and advise them on the use of information technology to meet business objectives. Provide strategic guidance regarding technology and IT infrastructure. Provide guidance and technical expertise on selection and procurement and user training and feedback. The IT Consultant can advise and implement various types of technology services, such as cloud, cybersecurity, database, and software/applications development.  
Minimum Education: Bachelors

Commercial Job Title: IT Data Scientist  
Minimum/General Experience: 2 Year  
Functional Responsibility: Data Scientist consultant works closely and collaborates with the product development, Information technology software development and implementation team and management team. Build forecasting models for quarterly and annual traffic patterns. Lead analytical projects that deliver key insights, including revenue modeling, trend analysis, and product impact analysis. Design, develop, and maintain all the aspects of IT projects including reports, dashboards and reporting portals. Develop a IT product KPI dashboard report. Develop
effective data visualizations for IT managers as well as other executives.
Minimum Education:  Bachelors

Commercial Job Title:  IT Security Specialist
Minimum/General Experience:  2 Year
Functional Responsibility:  The IT Security Specialist may identify or resolve highly complex issues to prevent cyberattacks on information systems or keep computer information systems secure from interruption of service, intellectual property theft, network viruses, data mining, financial theft, or theft of sensitive customer data, allowing business to continue as normal. The Security Specialist designs, installs, and manages security mechanisms that protect networks and information systems against hackers, breaches, viruses, and spyware. This individual responds to incidents, investigates violations, and recommends enhancements to plug potential security gaps.
Minimum Education:  Bachelors

Commercial Job Title:  IT Specialist
Minimum/General Experience:  2 Year
Functional Responsibility:  Works with teams of configuration specialists in meeting network requirements and develop operational requirements from site surveys/surveys of the user community and establish IT system requirements using analysis of the requirements and needs of the user. Write and edit technical materials (e.g., user manuals, reports, documents, deliverables), formulate and enforce standards, direct and supervise staff and personnel, prepare or approve work schedules, review work, resolve discrepancies, and communicate policies and goals to subordinates. Supervise design work to effectively lead the IT and network effort and to transform overall requirements and architecture to a complete engineering design. This may include the application of multiple engineering disciplines to IT and business modeling, analyses, specification development, hardware and software planning/implementation/modification/coding, scheduling, configuration changes and test reports for computer systems, messaging and telecommunications systems. Use specialized knowledge in exercising Quality Assurance, Configuration Management, and reliability and maintainability to control design and production and minimize life cycle cost.
Minimum Education:  Bachelors

Commercial Job Title:  Network/Systems Engineer
Minimum/General Experience:  2 Year
Functional Responsibility:  Designs, configures, tests, implements and maintains telecommunications capabilities, including wide area and local area networks without review by supervisor or senior employee. Performs operations and support activities. Assists applications programmers working in the telecommunications environment. Evaluates network changes for operational impact. Evaluates network performance and resolves network and processor problems. Familiar with hardware and software diagnostic tools. Highly specialized in one or more phases of software systems development, systems integration, or network engineering. Acts independently under general direction. Provides technical assistance and advice on complex activities. Formulates / defines specifications, develops / modifies / maintains complex systems and subsystems, using vendor engineering releases and utilities for overall operational systems. Applies analytical techniques when gathering information from users, defining work problems, designing technology solutions, and developing procedures to resolve the problems. Develops complete specifications to enable computer programmers to prepare required programs. Analyzes methods of approach. Reviews task proposal requirements, gathers information, analyzes data, prepares project synopses, compares alternatives, prepares specifications, resolves processing problems, coordinates work with programmers and engineers, and orients
users to new systems. Works with considerable freedom to make decisions on the techniques and approaches to be used. Prepares recommendations for system improvement for management and user consideration.

Minimum Education: Bachelors

Commercial Job Title: Program Manager
Minimum/General Experience: 2 Year
Functional Responsibility: Manages substantial IT program/technical support operations involving multiple projects/task orders and personnel at diverse locations. Organizes, directs, and coordinates the planning and execution of all program/technical support activities. Has demonstrated information technology expertise and communications skills to be able to interface with all levels of management. Simultaneously plans and manages the transition of several highly technical projects. Establishes and alters (as necessary) management structure to effectively direct program/technical support activities. Meets and confers with Government management officials regarding the status of specific program/technical activities as well as problems, issues, or conflicts requiring resolution. Serves as the Contractor counterpart for the Governments program/technical managers.

Minimum Education: Bachelors

Commercial Job Title: Project Manager
Minimum/General Experience: 2 Year
Functional Responsibility: Responsible for all contract activities as a regular part of this role, performs it independently and normally without review by a supervisor or senior employee. Sets policies and procedures, technical standards and methods, and priorities of IT task. Coordinates the management of all work performed on tasks under the contract. Coordinates the efforts of subcontractors, team members, and vendors. Acts as the central point of contact with the Contracting Officer (CO), the Contracting Officers Representative (COR), and other client officials. Exercises full authority to act for the company in the performance of the required work and services under all task orders. Works independently, or under the general direction of senior level company management, on all phases of performance including contract management, project/task order management, coordination of resource needs, coordination with corporate resources and management. Reports to senior company management on contract and task performance and issues. Has direct accountability for the technical correctness, timeliness and quality of deliverables, and the implementation and measurement of corporate and client quality standards and methodologies. Has a broad and deep knowledge of the IT industry, business administration, and human resource management and has excellent oral and written communications skills.

Minimum Education: Bachelors

Commercial Job Title: Quality Assurance Specialist
Minimum/General Experience: 2 Year
Functional Responsibility: Assures the level of quality throughout the software development life cycle customer and agency standards. Establishes and monitors a process for evaluating software and associated documentation. Assists in developing Quality Assurance Plans. Conducts formal and informal reviews at pre-determined stages throughout the development life cycle. Participates in software reviews and testing. Initiates corrective action for procedural or process deficiencies.

Minimum Education: Bachelors

Commercial Job Title: Scrum Master
Minimum/General Experience: 2 Year
Functional Responsibility: The Scrum Master may facilitate or guide a software development product owner, team, and organization on how to use Agile/Scrum concepts, values, practices, and principles focusing on improving team effectiveness. The Scrum Master leads discussions and decision making, and assists in mediation of conflict resolution.
Minimum Education: Bachelors

Commercial Job Title: Software Engineer
Minimum/General Experience: 2 Year
Functional Responsibility: Works independently on designs, develops, and provides customization of various applications to meet a series of pre-defined requirements. Requirements will be met through the use of various programming languages and possibly machine and assembly languages.
Minimum Education: Bachelors

Commercial Job Title: Solution Architect
Minimum/General Experience: 2 Year
Functional Responsibility: The Solution architecture is the practice of designing, describing, and managing solution engineering to match it with specific business problems:
* Find the best tech solution to solve existing business problems.
* Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
* Define features, development phases, and solution requirements.
* Provide specifications according to which the solution is defined, managed, and delivered.
Minimum Education: Bachelors

Commercial Job Title: Functional Consultant II
Minimum/General Experience: 2 Year
Functional Responsibility: Functional consultants provide advice and support to businesses about technology that can perform critical tasks and processes. They recommend and configure technology-based solutions to address a client or organizations business needs. These consultants commonly represent a specific brand or product line or specialize in a particular type of technology. They gather information from the client to determine their challenges and priorities and then recommend programs or systems that would be beneficial to their business. They have the ability to perform programming responsibilities, product design, configuration, application development, and consulting on all IT projects, including emerging technologies.
Minimum Education: Bachelors

Commercial Job Title: Subject Matter Expert
Minimum/General Experience: 4 Year
Functional Responsibility: The Subject Matter Expert has industry experience in the relevant subject matter. This individual will use information technology expertise and/or industry focus expertise in fulfilling the interpreted customer specification. The Subject Matter Expert is highly experienced in the industry with regard to the stated information technology. The SME can advise and implement various types of technology services, such as cloud, cybersecurity, database, and software/applications development. The Subject Matter Expert provides thought leadership related to current and future customer plans with regard to the stated information technology.
Minimum Education: Bachelors

Commercial Job Title: Technical Consultant
Minimum/General Experience: 2 Year
Functional Responsibility: The Technical Consultant partner with clients and advise them on the
use of information technology to meet business objectives. Provide strategic guidance regarding technology and IT infrastructure. Provide guidance and technical expertise on selection and procurement and user training and feedback.

The Technical Consultant can advise and implement various types of technology services, such as cloud, cybersecurity, database, and applications development.

Minimum Education: Bachelors

SIN 541380 Testing Laboratory Services
Labor Category Description

Commercial Job Title: Administrative Assistant
Minimum/General Experience: 1 Year
Functional Responsibility: Provides administrative assistant support to the project, such as:
(1) preparing and maintain documents, spreadsheets, databases, and/or other software files and information; (2) preparing technical reports, including gathering information and data, analyzing, organizing, and presenting in a logical, persuasive manner the conclusions of the information; (3) gathering data from various sources and synthesizes the options for action from that data, for the decision making process.
In concert with the Director(s) or Manager(s), designs and implements the necessary business processes to facilitate the effective functioning of the office; (4) organizing and maintaining departmental files in accordance with applicable procedures.
Minimum Education: Associate Degree

Commercial Job Title: Asphalt Engineer/Asphalt Manager
Minimum/General Experience: 3 Years
Functional Responsibility: The principal function of this position is to conduct research on asphaltic materials and supervise the contact staff.
The requirements are:
• Advanced degree (M.S. or Ph. D) in civil engineering or related discipline.
• Good, working, up-to-date knowledge of aggregate and asphalt technology.
• In depth knowledge of mixture and binder performance related specifications
Demonstrated proficiency with the following:
• Proven ability to lead and motivate a highly qualified team of researchers.
• Proven ability to develop and monitor research plans.
• Proven ability to develop experimental designs and conduct statistical analyses.
• Proven ability to manage budgets.
• Proven ability to work well with others.
Minimum Education: Bachelors

Commercial Job Title: Chemistry Laboratory Contract Research Manager
Minimum/General Experience: 2 Year
Functional Responsibility: Supports the investigation, analyses, and evaluation of chemical information and related reports. Performs field activities and analyses., Performs daily lab packs and chemical consolidation and bulking within customer facilities; spill response and clean up; sampling; remediation duties; chemical management and inventory; respiratory fit testing. Assists in field sampling and performing approved analyses on hazardous waste samples; prepares samples to be shipped to an outside analytical laboratory for specified parameter testing; performs general maintenance of sample inventory and properly disposes of expired samples.
Demonstrated proficiency with the following:
• Good, working, up-to-date knowledge of aggregate, cement and asphalt chemistry.
• Proven ability to lead and motivate a highly qualified team of researchers.
• Proven ability to develop and monitor research plans.
• Proven ability to manage budgets.
• Proven ability to work well with others.
Minimum Education:  Bachelors

Commercial Job Title: Chemistry Laboratory Technician
Minimum/General Experience:  1 Year
Functional Responsibility: Performs daily lab packs and chemical consolidation and bulking within customer facilities; spill response and clean up; sampling; remediation duties; chemical management and inventory; respiratory fit testing. Assists in field sampling and performing approved analyses on hazardous waste samples; prepares samples to be shipped to an outside analytical laboratory for specified parameter testing; performs general maintenance of sample inventory and properly disposes of expired samples. Conducts data validation.
Minimum Education:  Bachelors

Commercial Job Title: Co-Principal Investigator
Minimum/General Experience:  4 Year
Functional Responsibility: Designs research and creates research plans. Serves as the senior technical point of contact. Responsible for research project oversight. Performs a variety of tasks. Organizing and archiving information in databases for statistical analysis, conducting interviews and focus groups, developing data analysis files by coding data and creating new variables, and writing analytical reports. Conducts appropriate statistical analysis.
Minimum Education:  Bachelors

Commercial Job Title: Coatings & Corrosion Technician
Minimum/General Experience:  1 Year
Functional Responsibility: Demonstrated proficiency with the following:
• Possess a working knowledge of chemical operations and handling, coatings, and corrosion.
• Proven ability to work well with others.
• The CCT will work closely with SC/CE/LM and/or SC/CE in carrying out the broad mission of CCL.
• The CCT shall perform routine maintenance for all the equipment, cleaning, material stocking and overall maintenance of the CCL.
• Proven ability to work well with others.
Minimum Education:  Associate Degree

Commercial Job Title: Computer Programmer
Minimum/General Experience:  2 Year
Functional Responsibility:  Analyze business applications and design specifications. Develop block diagrams and logic flow charts. Translate detailed design into computer software. Test, debug, and refine the computer software to produce the required product. Assist in resolving basic operating problems. Prepare required documentation, including program-level and system-level documentation. Prepare instructions for computer operators. Enhance software to reduce operating time or improve efficiency. Provide software conversion and implementation support. May provide technical direction and supervision to more junior programmers. The Computer Programmer shall be competent in modern programming languages such as Visual Basic 2015 (VB 14.0), C# and C++, MATLAB, SQL-Server, object oriented programming and Desktop and Web applications development.
Minimum Education: Bachelors

Commercial Job Title: Concrete Materials Engineer – Level 2
Minimum/General Experience: 2 Year
Functional Responsibility: The principal function of this position is to conduct research in the Concrete Laboratory.
Demonstrated proficiency with the following:
• Good, working, up-to-date knowledge of the proportioning, mixing, curing, and testing of concrete materials.
• Good, working, up-to-date knowledge of concrete constituent characteristics.
• Proven ability to successfully conduct research studies focused on concrete.
• Proven ability to design experiments and to conduct statistical analyses.
• Proven ability to lead, motivate, and work with a team of research professionals.
• Proven ability to develop, monitor, and execute research plans.
• Proven ability to communicate research motivations, methods, and results in verbal and written form to audiences ranging from novice to expert.
• Capability to participate on and deliver results through work with technical committees related to materials research and standards development.
Minimum Education: Bachelors

Commercial Job Title: Concrete Materials Engineer / Concrete Lab Manager
Minimum/General Experience: 2 Year
Functional Responsibility: Responsible for overall management of the Concrete Laboratories contract staff and/or other assigned infrastructure laboratories. This includes scheduling of research studies and testing as well as supervision of the Concrete Materials Engineer – 2 (CME-2), Concrete Structural Engineer – 2 (CSE-2), Concrete Materials Research Technologist (CMRT), all Senior Materials Testing Technician - Concrete (SMTT-Cs), and the Junior Concrete Technician (JCT). The position demands frequent and clear communication with federal staff to keep them abreast of progress, needs or any problems. The CME/CLM assures preservation of all materials and sample identification and source information, and all testing and research data gathered, prepares and/or presents research findings in the form of reports, papers or presentations as required. Demonstrated proficiency with the following:
• Good, working, up-to-date knowledge of the proportioning, mixing, curing, and testing of concrete materials.
• Good, working, up-to-date knowledge of concrete constituent characteristics.
• Proven ability to successfully conduct research studies focused on concrete.
• Proven ability to design experiments and to conduct statistical analyses.
• Proven ability to lead, motivate, and work with a team of research professionals.
• Proven ability to develop, monitor, and execute research plans.
• Proven ability to communicate research methods and results in verbal and written form to audiences ranging from novice to expert.
• Capability to participate on and deliver results through work with technical committees related to materials research and standards development.
Minimum Education: Bachelors

Commercial Job Title: Concrete Structural Engineer
Minimum/General Experience: 2 Year
Functional Responsibility: Demonstrated proficiency with the following:
• Good, working, up-to-date knowledge of the proportioning, mixing, curing, and testing of concrete materials.
• Good, working, up-to-date knowledge of reinforced concrete structure design, evaluation, and
testing.
• Proven ability to successfully conduct research studies focused on concrete.
• Proven ability lead, motivate, and work with a team of research professionals.
• Proven ability to develop, monitor, and execute research plans.
• Proven ability to communicate research motivations, methods, and results in verbal and written form to audiences ranging from novice to expert.
• Capability to participate on and deliver results through work with technical committees related to structures research, materials research, and standards development.
Minimum Education:  Bachelors

Commercial Job Title: Consultant I
Minimum/General Experience:  2 Year
Functional Responsibility:  The Consultant I can perform many roles and duties under SIN 541380 Testing Laboratories. The Consultants shall have expertise in any of the following areas, depending on the tasks to be performed: infrastructure design, analysis and performance modeling; infrastructure material characterization; structural and functional evaluation of in-service infrastructure assets using non-destructive testing and other means; infrastructure construction; life-cycle cost analysis and life-cycle analysis of infrastructure renewal alternatives. Minimum Education:  Bachelors

Commercial Job Title: Consultant II
Minimum/General Experience:  2 Year
Functional Responsibility:  The Consultant I can perform many roles and duties under SIN 541380 Testing Laboratories. The Consultants shall have expertise in any of the following areas, depending on the tasks to be performed: infrastructure design, analysis and performance modeling; infrastructure material characterization; structural and functional evaluation of in-service infrastructure assets using non-destructive testing and other means; infrastructure construction; life-cycle cost analysis and life-cycle analysis of infrastructure renewal alternatives. Minimum Education:  Bachelors

Commercial Job Title: Contract Administration
Minimum/General Experience:  2 Year
Functional Responsibility:  The Contract Administrator can perform contract management duties, such as: modification, change orders, budgeting, requisition process, pre-award and post award duties. Minimum Education:  Bachelors

Commercial Job Title: Data Technician
Minimum/General Experience:  2 Year
Functional Responsibility:  The Data Technician will assist in daily activities such as preparation and review of documents, reports, manuals, articles, and spreadsheets, filing, arranging meetings, reproducing documents, mailing material, and maintaining presentation material. The technician will occasionally assist in quality assurance/quality control review of data stored in program database. Minimum Education:  Bachelors

Commercial Job Title: Geologist/Petrographer /Aggregate and Petrography Laboratory (APL) Manager
Minimum/General Experience:  2 Year
Functional Responsibility:  The principal function of this position is to manage the Aggregate and Petrography Laboratory (APL), supervise the contract Materials Technician (MT), and conduct
geologic and petrographic examinations and evaluations of construction materials, including (but not limited to) rock, aggregates, recycled materials, cement, concrete, and asphalt mixtures for highway and structural. Demonstrated proficiency with the following:
• Good, working, up-to-date knowledge of aggregates, cement, and concrete materials and mixtures used for highway construction.
• Proven ability to lead and motivate the APL staff and provide direction for specialized petrographic sample preparation.
• Proven ability to interact/collaborate with, and provide expertise, to the highly qualified researchers in other TFHRC laboratories.
• Proven ability to develop and monitor research plans.
• Proven ability to manage budgets.
• Proven ability to work well with others.
Minimum Education: Bachelors

Commercial Job Title: Graduate Student/Graduate Assistant
Minimum/General Experience: >1 Year
Functional Responsibility: A graduate student or graduate assistant role is to provide support in any role under SIN 541380 Testing Laboratories.
Minimum Education: Associate Degree

Commercial Job Title: Asphalt Binder and Bituminous Mixtures Laboratories (ABML) Technician
Minimum/General Experience: 2 Year
Functional Responsibility: The principal function of this position is to support the technicians in the preparation of materials and maintenance of the lab.
Demonstrated proficiency with the following:
• Proven ability in conducting volumetric analyses. Minimum Education: Bachelors

Commercial Job Title: Operations Engineer
Minimum/General Experience: 2 Year
Functional Responsibility: Strong technical skills and experience with power systems, mechanical aptitude and/or electrical systems are encouraged.
• Demonstrated experience applying systems diagnosis and troubleshooting fundamentals
  * Understanding of process control mechanisms and instrumentation
  * Demonstrated detail-oriented documentation skills meeting company quality standards
  * Demonstrated ability to use company quality processes and help drive their improvement.
Minimum Education: Bachelors

Commercial Job Title: Materials Technician
Minimum/General Experience: 1 Year
Functional Responsibility: The principal function of this position is to prepare precision polished and thin sections of various highway materials under the direction of APL Geologist/Petrographer or other professional support staff as required for use in the TFHRC materials laboratories, and to conduct other construction materials research and testing as directed. The requirements are:
• Experience in construction or other trade requiring dexterity and precision in working with materials to make quality products.
• Ability and experience (and demonstrated proficiency) to work with precision measurements and perform calculations.
• Knowledge and experience in construction materials, testing, research procedures, and the ability to read and follow standard procedures.
Demonstrated proficiency with the following:
• Precision work and measurements in a laboratory or bench-scale manufacturing/repair setting requiring quality workmanship.
• Working knowledge of aggregates, cement, concrete, and other materials and mixtures used in construction.
• Ability to learn and conduct both standard test methods, and specialized materials preparation and testing techniques.
• Proven ability to work well with others.
Minimum Education: Bachelors

Commercial Job Title: Pavement Test Facility Operations Technician
Minimum/General Experience: 1 Year
Functional Responsibility: The principal function of this position is the operation of the Accelerated Loading Facility machines.
Demonstrated proficiency with:
• Proven ability and experience with mechanical engineering, heavy equipment design, fabrication, operations, and repair.
• Proven ability in operating the Falling Weight Deflectometer (FWD).
• Proven ability with range of sensors (mechanical, electrical, wireless).
Minimum Education: Bachelors

Commercial Job Title: Principal Investigator
Minimum/General Experience: 2 Year
Functional Responsibility: The Principal Investigator(s) shall be responsible for day-to-day technical management and direction of the research team assembled for a task order. The Principal Investigator(s) shall be responsible for coordinating and conducting research, development and analysis; assist in technology delivery, technology deployment and programmatic technical support for the task orders.
Minimum Education: Bachelors

Commercial Job Title: Project Manager
Minimum/General Experience: 2 Year
Functional Responsibility: Responsible for all contract activities as a regular part of this role, performs it independently and normally without review by a supervisor or senior employee. Sets policies and procedures, technical standards and methods, and priorities of task. Coordinates the management of all work performed on tasks under the contract. Coordinates the efforts of subcontractors, team members, and vendors. Acts as the central point of contact with the Contracting Officer (CO), the Contracting Officers Representative (COR), and other client officials. Exercises full authority to act for the company in the performance of the required work and services under all task orders. Works independently, or under the general direction of senior level company management, on all phases of performance including contract management, project/task order management, coordination of resource needs, coordination with corporate resources and management. Reports to company management on contract and task performance and issues. Has direct accountability for the technical correctness, timeliness and quality of deliverables, and the implementation and measurement of corporate and client quality standards and methodologies. Has a broad and deep knowledge of the industry, business administration, and human resource management and has excellent oral and written communications skills.
Minimum Education: Bachelors

Commercial Job Title: Program Manager
Minimum/General Experience: 2 Year
Functional Responsibility: The Program Manager shall be responsible for administration, supervision and management of the contract personnel, which shall include coordinating time and travel for the contract personnel. The Program Manager shall be responsible for the submission of all task order proposals, progress reports, final reports and all other deliverables. The Program Manager shall be the point of technical and administrative contact between the Government and the Contractor and shall be responsible for the successful completion of all work required under this contract.

Minimum Education: Bachelors

Commercial Job Title: Research Chemist Asphalt and Aggregates
Minimum/General Experience: 1 Year

Functional Responsibility: Research focus of this position is the analysis of asphalt binders, the study of aggregates and cementitious materials particularly aggregates, cement pastes and fly ash.

Demonstrated proficiency with the following:
- Proven ability with analysis of asphalt binders using XRF
- Proven ability with analysis of cementitious materials using XRF.
- Detailed knowledge of aggregate chemistry.
- Proven experience with ICP analysis.
- Familiarity with the standard wet chemistry laboratory techniques for producing and modifying samples.
- Proven ability with the use of FTIR and interpretation of Spectra.
- Proven ability with the use of XRD for the analysis of cementitious materials and aggregates.
- Proven ability with the use of optical microscopy for determining aggregate structures.
- Proven ability to develop research plans.
- Proven ability to write technical papers.

Minimum Education: Bachelors

Commercial Job Title: Research Chemist Cement
Minimum/General Experience: 1 Year

Functional Responsibility: The research focus for this position is principally directed at failure mechanisms for concrete. This includes, but is not limited to, the detailed study of alkali silica reaction gels (ASR) and reactivity of aggregates. Current research includes the elucidation structures of ASR gels with differing chemical compositions.

Demonstrated proficiency with the following:
- Proven ability to use Raman spectroscopy for the analysis of gels with a focus for on surface enhanced Raman spectroscopy (SERS).
- Proven ability with the use of Fourier transform infrared spectroscopy (FTIR)
- Detailed knowledge of cement hydration chemistry
- Detailed experience with the use of x-ray diffraction (XRD) and Rietveld methods for the analysis of cementitious materials and interpretation of XRD Spectra.
- Detailed experience in the use of an environmental scanning electron microscope, ability to produce optical and elemental maps.
- Experience with X-Ray Fluorescence XRF analysis of cementitious materials.
- Experience with ICP analysis.
- Proven familiarity with wet chemistry techniques for producing cementitious samples.
- Proven ability to develop relevant research plans.
- Proven ability to write technical papers.

Minimum Education: Bachelors

Commercial Job Title: Research Civil Engineer
Minimum/General Experience: 1 Year
Functional Responsibility: Primary duties include providing pavement analysis technical support to the Infrastructure Analysis and Construction (IAC) Team. The RCE will conduct technical analysis in the areas of mechanistic-empirical pavement design and analysis; structural and functional evaluation of in-service pavements using non-destructive testing and other means; assist with life-cycle cost analysis and life-cycle assessment of pavement design alternatives; assist FHWA led transportation pooled fund studies through conducting needed research and disseminating findings to the participating State Highway Agencies through presentations and meetings. The RCE will assist in disseminating the findings from above activities through research publications by way of papers and reports written with the joint efforts of IAC staff and others associated with the specific research of structural and mechanistic analysis of pavement structures. The RCE will review and comment on documents prepared by internal and external parties on Pavement Design and Construction team research activities related to structural and mechanistic analysis of pavement structures.
Minimum Education: Bachelors

Commercial Job Title: Chemist/Corrosion Engineer/Lab Manager
Minimum/General Experience: 1 Year
Functional Responsibility: The principal function of this position is to supervise the contract staff in the Corrosion and Coatings Laboratory
The requirements are:
• Engineering and/or chemistry or related discipline, with specific experience in the corrosion of steel and/or reinforced concrete as well as demonstrated proficiency in the use of materials/techniques used for the application of coatings for steel bridges.

Demonstrated proficiency with the following:
• Good, working, up-to-date knowledge of corrosion prevention and mitigation techniques and coatings technology.
• Proven ability to lead and motivate a highly qualified team of researchers.
• Proven ability to develop and monitor research plans.
• Proven ability to manage budgets.
• Proven ability to work well with others.

Minimum Education: Bachelors

Commercial Job Title: Materials Testing Technician – Concrete
Minimum/General Experience: 1 Year
Functional Responsibility: The principal function of this position is to conduct standard and specialized tests on cement, aggregates, mortar, paste, grout, and concrete in the Concrete Laboratories or another assigned laboratory.
Demonstrated proficiency with the following:
• Proven ability of up-to-date knowledge of the proportioning, batching and mixing cement paste, mortar, grout, and concrete; constructing molds or forms; casting paste, mortar or concrete (reinforced or non-reinforced) specimens, demolding and curing specimens, and preparing specimens for testing.
• Proven ability of up-to-date knowledge of basic aggregate tests such as gradation, absorption, and specific gravity; cement tests such as fineness and setting time; fresh concrete tests such as slump, air content, and unit weight; hardened mortar and concrete tests such as strength, elastic modulus, length change, and freeze/thaw; bond testing; and other standard tests required for specific projects.
• Proven ability of basic computer skills (word processing and spreadsheets) a basic knowledge of computer operation and familiarity with Windows.
• Proven ability to learn and implement appropriate training and instructions for data acquisition and instrumentation related to concrete, pavement, and structures testing (e.g., application and setup of Linear Variable Differential Transformers or strain gages and associated equipment).
Minimum Education: Bachelors

Commercial Job Title: Software Developer
Minimum/General Experience: 2 Year
Functional Responsibility: Works independently on designs, develops, and provides customization of various applications to meet a series of pre-defined requirements. Requirements will be met through the use of various programming languages and possibly machine and assembly languages to develop a software.
Minimum Education: Bachelors

Commercial Job Title: Specialty/Consultants
Minimum/General Experience: 1 Year
Functional Responsibility: Due to the broad nature of the scope of this contract, other specialists/consultants may be necessary during contract performance. The Specialty Consultants shall have expertise in any of the following areas, depending on the tasks to be performed: infrastructure design, analysis and performance modeling; infrastructure material characterization; structural and functional evaluation of in-service infrastructure assets using non-destructive testing and other means; infrastructure construction; life-cycle cost analysis and life-cycle analysis of infrastructure renewal alternatives.
Minimum Education: Bachelors

Commercial Job Title: Structural – Concrete Materials Research Engineer
Minimum/General Experience: 1 Year
Functional Responsibility: Responsible for overall management of the Concrete Laboratories contract staff and/or other assigned infrastructure laboratories. This includes scheduling of research studies and testing. The position demands frequent and clear communication with federal staff to keep them abreast of progress, needs or any problems. The CME/CLM assures preservation of all materials and sample identification and source information and all testing and research data gathered, prepares and/or presents research findings in the form of reports, papers or presentations as required.

Demonstrated proficiency with the following:
• Good, working, up-to-date knowledge of the proportioning, mixing, curing, and testing of concrete materials.
• Good, working, up-to-date knowledge of concrete constituent characteristics.
• Proven ability to successfully conduct research studies focused on concrete.
• Proven ability to design experiments and to conduct statistical analyses.
• Proven ability to lead, motivate, and work with a team of research professionals.
• Proven ability to develop, monitor, and execute research plans.
• Proven ability to communicate research methods and results in verbal and written form to audiences ranging from novice to expert.
• Capability to participate on and deliver results through work with technical committees related to materials research and standards development. Minimum Education: Bachelors

Commercial Job Title: Support Labor
Minimum/General Experience: 1 Year
Functional Responsibility: The principal function of this position is to help any of the laboratories
under PML contract. Priorities determined by the PM.

Demonstrated proficiency with the following:
- Ability to assist the laboratory staff with routine activities such as obtaining, moving, and stocking necessary supplies and materials; preparing specimens; setting up test equipment; laboratory and field testing; and keeping the work area and the laboratories clean.
- Aptitude for working with hand tools and a willingness to work productively. The primary job functions do not require exercising independent judgment, and the SL shall work under immediate supervision.
- Ability to perform physical work such as moving heavy materials/items.

Minimum Education: Bachelors

SIN 518210C Cloud Computing and Cloud Related IT Professional Services
Labor Category Description

Commercial Job Title: Cloud Consultant
Minimum/General Experience: 2 Year
Functional Responsibility: Coordinate and/or perform additions and changes to Cloud IT network services and operating systems, and attached devices; includes investigation, analysis, recommendation, configuration, installation, and testing of new network hardware and software. Provide direct support in the day-to-day operations on network hardware and operating systems, including the evaluation of system utilization, monitoring response time and primary support for detection and correction of operational problems. Run and troubleshoot automation tools and perform monitoring and log analysis. Understands and use program language for different types of cloud providers. Develops and applies advanced methods, theories, and research techniques in investigating and solving complex concept, planning, design, or implementation problems through effective use of commercial cloud services. Provides input for adoption of commercial cloud best practices and cloud adoption strategies and techniques. Recognized for achievements and technical subject expertise.
Minimum Education: Bachelors

Commercial Job Title: Cloud Network Engineer
Minimum/General Experience: 2 Year
Functional Responsibility: Plans, supports and evaluates complex existing cloud network systems and make recommendations. This resource will provide highly skilled technical assistance in cloud network planning, cloud network engineering and cloud-based architecture. Also provides and develops technical standards and interface applications; identifies and evaluates new products; provide solutions for network problems/determine system needs/applications. Provide monthly metrics for network availability and bandwidth usage as well as other metrics as requested. Responsible for network capacity planning. Use network management tools to discover, map and maintain the network. Responsible for network equipment OS and version upgrades. Responsible for conducting research of new technologies and implementation strategies. Monitor and maintain network interfaces to ensure its highest level of performance and makes modifications and enhancements as needed. Assists in the development and maintenance of cloud-based network communications. Uses knowledge of LAN/WAN systems to help design and install internal and external networks. Tests and evaluates network systems to eliminate problems and make improvements. May require a bachelor's degree and at least 6 years of experience in the field or in a related area. Familiar with a variety of the field's concepts, practices, and procedures. Relies on experience and judgment to plan and accomplish goals. Performs a variety of tasks. May lead and direct the work of others. A wide degree of creativity and latitude is expected. Typically reports
to a manager.
Minimum Education: Bachelors

Commercial Job Title: Cloud Project Manager
Minimum/General Experience: 2 Year
Functional Responsibility: A Cloud Project Manager must have experience managing Cloud projects. Must be well versed in life cycle and project management methodologies. Must have experience in tracking costs, schedule and performance progress. Must be able to identify and mitigate risks.
Responsible for managing migration of legacy applications to cloud platforms AWS, Azure and GCP in a FedRAMP environment.
• Work with technical team to implement Continuous Integration and Continuous Delivery and Continuous Deployment tools, automated testing, Cloud, microservices and container-based environments.
• Responsible for managing small to large projects and all phases of project and project management lifecycles
• The project manager is expected to have significant input into the technical decision-making process
• Functions as the leader and manager of all contributing disciplines and resources in the completion of a project
• Engages in such activities as: assigning tasks; establishing and maintaining task schedules; maintaining liaison between appropriate project personnel and the customer to ensure effective coordination of all project efforts; prepares and adheres to project cost, schedule, and staffing plans; prepares plans, proposals, and briefings; manages contract negotiations and company representation
Minimum Education: Bachelors

Commercial Job Title: Cloud Specialist
Minimum/General Experience: 2 Year
Functional Responsibility: The Cloud Specialist provides advanced system and network administration, operational support and problem resolution for a large complex cloud computing environment, including multiple types of operating systems, virtual hardware, and networking. Is expected to design, configure, implement and support an automated workflow for cloud environment provisioning.
Minimum Education: Bachelors

Commercial Job Title: Cloud Subject Matter Expert
Minimum/General Experience: 4 Year
Functional Responsibility: Recognized for technical knowledge and judgment in a technical field with proficiency in relevant cloud-based engineering principles and practices as required for technically complex assignments. Develops solutions to difficult problems. Generates concepts as evidenced by product or process improvement. Uses engineering/scientific tools to integrate requirements and solve technical problems. Leads engineering team activities in a specialized engineering or technology subject area. Leads technical planning activities and provides technical guidance. The SME can advise and implement various types of technology services, such as cloud, cybersecurity, database, and software/applications development using programming language, design concepts, and theories.
Minimum Education: Bachelors

Commercial Job Title: Cloud Database Administrator
Minimum/General Experience: 2 Year
Functional Responsibility: Serves as a team lead providing all activities related to the administration of cloud-hosted and/or cloud-native (Platform as a Service (PaaS)) databases. Able to communicate with management, technicians, and end users to evaluate need prior to development of an automated solution. Prepares detailed reports, which might include system requirements such as concurrent usage factors, data storage requirements, and response rates; and discuss procedures for processing data through the use of database management systems (DBMSs), including relational databases. Projects long range requirements for database administration and design in conjunction with other managers in the information systems function. Designs, creates, and maintains databases in a client/server environment. Conducts quality control and auditing of databases in a client/server environment to ensure accurate and appropriate use of data. Advises users on access to various client/server databases. Designs, implements, and maintains complex databases with respect to access methods, access time, device allocation, validation checks, organization, protection and security, documentation, and statistical methods. Applies knowledge and experience with database technologies, development methodologies, and back-end programming languages (e.g., SQL). Performs database programming and supports systems design. Includes maintenance of database dictionaries, overall monitoring of standards and procedures, file design and storage, and integration of systems through database design. Evaluates database design tradeoffs, impacts on user expectations, performance levels, and space allocation requirements.
Minimum Education: Bachelors

Commercial Job Title: Cloud Full Stack Developer
Minimum/General
Experience: 2 Year
Functional Responsibility: A Computer Programmer who uses coding to operate on both front- and back-end systems. Their main duties include creating user interactions on various websites and platforms, writing code optimized for mobile and developing databases and services for functionality. Managing the complete software development process from conception to deployment on the cloud. Maintaining and upgrading the software following deployment on any cloud platform. Managing the end-to-end life cycle for the production of software and applications on a cloud platform. Overseeing and guiding the analyzing, writing, building, and deployment of software on a cloud platform. Overseeing the automated testing and providing feedback to management during the development process on a cloud platform. Modifying and testing changes to previously developed programs under the cloud platform.
Minimum Education: Bachelors