RFP 80GSFC18R0034

ENCLOSURE CC

GOVERNMENT PRICING MODEL (GPM) – SPECIFIED NON-MANAGEMENT DIRECT LABOR CATEGORIES, DIRECT LABOR HOURS AND POSITION DESCRIPTIONS

ENVIRONMENTAL TEST AND INTEGRATION SERVICES (ETIS) III

APRIL 18, 2018
<table>
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<tr>
<th>Direct Labor Categories</th>
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<th>CY 3</th>
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* CY = Contract Year

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<tr>
<th>Direct Labor Categories</th>
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(03/2016)
## GPM-Specified Non-Management Direct Labor Position Descriptions

<table>
<thead>
<tr>
<th>Position Title</th>
<th>Duties</th>
<th>Education</th>
<th>Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Programmer III</td>
<td>Plans, develops, tests, and documents computer programs, working from detailed data provided by other programmers, system analysts, or engineering. Applies standard programming procedures and a detailed knowledge of the application being programmed. May be assigned to different areas including: supporting database programming and administration of an environmental data acquisition system for test facilities interface software, data acquisition, and networking. Creates interfaces with the lab Programmable Logic Controllers to automate aspects of the Thermal Vacuum Facility. May be assigned to other areas to program and set up equipment to test flight hardware, including data acquisition, programming and analysis, general laboratory setup, interfacing, and enforcing protocols, and procedures.</td>
<td>A.A. degree in related field or equivalent experience is required.</td>
<td>This position requires a minimum of four years of experience in a programming position within an engineering or scientific environment, programming data systems and writing applications in C++. Experience with programming in Power Builder, and creating and maintaining Oracle databases is required.</td>
</tr>
<tr>
<td>Computer Programmer IV</td>
<td>Designs, develops, implements, and maintains complex information systems. Analyzes detailed systems factors, including input and output requirements, information flow, hardware and software requirements, and alternative methods of problem resolution. Works with users to define existing or new system scope and objectives. Performs modifications to and maintenance of operational programs and procedures. Assists users in the operation of the application. Provides guidance to and technical direction less experienced programmer/analysts.</td>
<td>B.S. degree in Computer Science or related field is required.</td>
<td>This position requires a minimum of 10 years of experience in the programming, design and development of systems supporting aerospace testing.</td>
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<tr>
<td>Drafter II</td>
<td>Prepare working plans, detailed drawings and complete mechanical or electrical drawings of components and assemblies from notes, verbal instructions, and rough or detailed sketches for engineering or manufacturing purposes. Makes engineering computations. Writes specifications and makes adjustments in drawings or specifications. Verifies completed work, checking dimensions, materials to be used, and quantities. May take measurements or make observations of test facilities and GSE. Work is of moderate difficulty and is not subject to close supervision.</td>
<td>High School diploma or equivalent is required. Vocational or technical training is preferred.</td>
<td>This position requires a minimum of three years of related drafting experience, including knowledge of: electrical schematics and ladder diagrams, test fixture mechanisms, and configuration control processes. Proficiency in AutoCAD is required.</td>
</tr>
<tr>
<td>Engineer I</td>
<td>Performs rudimentary engineering tasks in support of senior level engineers. Under the direction of a senior level engineer, provides engineering support for spacecraft integration, environmental testing, contamination control, facility engineering and design, or recertification of lifting device equipment and pressure vessel systems. Depending on area of assignment, tasks may include but are not limited to: preparing test plans and procedures, assisting in the reduction/analysis of test data, performing structural analysis, implementing contamination control plans, operating clean room facilities, performing test hardware set-up, or preparing FMEA.</td>
<td>BS Degree in Engineering, Physics or technically related field is required.</td>
<td>This position requires related course work and some related technical experience is preferred.</td>
</tr>
<tr>
<td>Engineer II</td>
<td>Performs developmental engineering tasks in support of senior level engineers. Under the direction of a senior level engineer, provides engineering support for spacecraft integration, environmental testing, contamination control, facility engineering and design, or recertification of lifting device equipment and pressure vessel systems. Depending on area of assignment, tasks may include but are not limited to: directs or performs structural tests: static load, mass properties, steady state acceleration, and model survey of spacecraft components; directs test setups, determines instrumentation methods, provides calculations for test loading and generates test reports; analyzes and evaluates structural performance. Directs or performs modal survey, vibration, and acoustic tests on flight hardware; designs fixtures and systems for thermal vacuum testing of spacecraft and support hardware; generates and tracks test estimates, leads and supports facility improvements for either thermal vacuum or cryogenic upgrades; assesses cleanliness requirements and develops estimates for contamination support, performs material evaluations, monitors cleanrooms for molecular contamination, and evaluates cleanroom certification results; directs engineering tasks for maintenance, repair, or upgrade of mechanical and electrical systems; performs optical engineering tasks involving analysis of optical component performance, precision optical alignments, and development of test plans, directs test setups, troubleshoots, maintains and repairs optical test equipment, designs mounts and fixtures; develops and implements inspection and test procedures for ground-based PV/S and flight hardware; develops specifications for modification of overhead cranes, including installations, retrofits and maintenance; or directs the assembly, integration and handling of ground support equipment and flight hardware.</td>
<td>BS Degree in Engineering, Physics, or technically related field is required.</td>
<td>This position requires a minimum of two years technical experience related to the area of assignment.</td>
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<td>Position Title</td>
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<tr>
<td>Engineer III</td>
<td>Directs or performs engineering duties in areas such as environmental testing and facilities, integration of flight hardware, optics, contamination control, or recertification of lifting device equipment and pressure vessel systems. Depending on area of assignment, tasks may include but are not limited to: directs or performs structural tests: static load, mass properties, steady state acceleration, and model survey of spacecraft components; directs test setups, determines instrumentation methods, provides calculations for test loading and generates test reports; analyzes and evaluates structural performance. Directs or performs modal survey, vibration, and acoustic tests on flight hardware; designs fixtures and systems for thermal vacuum testing of spacecraft and support hardware; generates and tracks test estimates, leads and supports facility improvements for either thermal vacuum or cryogenic upgrades; assesses cleanliness requirements and develops estimates for contamination support, performs material evaluations, monitors cleanrooms for molecular contamination, and evaluates cleanroom certification results; directs engineering tasks for maintenance, repair, or upgrade of mechanical and electrical systems; performs optical engineering tasks involving analysis of optical component performance, precision optical alignments, and development of test plans, directs test setups, troubleshoots, maintains and repairs optical test equipment, designs mounts and fixtures; develops and implements inspection and test procedures for ground-based PV/S and flight hardware; develops specifications for modification of overhead cranes, including installations, retrofits and maintenance; or directs the assembly, integration and handling of ground support equipment and flight hardware.</td>
<td>BS Degree in Engineering, Physics, or technically related field is required.</td>
<td>This position requires a minimum of four years technical experience in the aerospace industry related to the area of assignment. Proficiency with engineering analysis methods and knowledge of NASA design, test, and inspection requirements is required. Proficiency in project coordination and management is required.</td>
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<tr>
<td>Engineer IV</td>
<td>Directs or performs engineering duties in areas such as environmental testing and facilities, integration of flight hardware, optics, contamination control, or recertification of lifting device equipment and pressure vessel systems. Depending on area of assignment, tasks may include but are not limited to: directs or performs structural tests: static load, mass properties, steady state acceleration, and model survey of spacecraft components; directs test setups, determines instrumentation methods, provides calculations for test loading and generate test reports; analyzes and evaluates structural performance. Directs or performs modal survey, vibration, and acoustic tests on flight hardware; designs fixtures and systems for thermal vacuum testing of spacecraft and support hardware; generate and track test estimates, leads and supports facility improvements for either thermal vacuum or cryogenic upgrades; assesses cleanliness requirements and develops estimates for contamination support, performs material evaluations, monitors cleanrooms for molecular contamination, and evaluates cleanroom certification results; directs engineering tasks for maintenance, repair, or upgrade of mechanical and electrical systems; performs optical engineering tasks involving analysis of optical component performance, precision optical alignments, and development of test plans, directs test setups, troubleshoots, maintains and repairs optical test equipment, designs mounts and fixtures; develops and implements inspection and test procedures for ground-based PV/S and flight hardware; develops specifications for modification of overhead cranes, including installations, retrofits and maintenance; or directs the assembly, integration and handling of ground support equipment and flight hardware.</td>
<td>BS Degree in Engineering, Physics, or technically related field is required.</td>
<td>This position requires a minimum of eight years technical experience in the aerospace industry with specific demonstrated technical expertise related to the area of assignment. Technical team leadership is desired.</td>
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</table>
## GPM-Specified Non-Management Direct Labor Position Descriptions

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<tbody>
<tr>
<td>Engineer V</td>
<td>Manages and directs individual engineering tasks to meet the technical requirements of the contract in areas such as environmental testing and facilities, integration of flight hardware, optics, contamination control, or recertification of lifting device equipment and pressure vessel systems. Develops procedures, test plans, budgets, and schedules. Manages specific task teams of engineers and designers. Provides guidance and direction in developing and maintaining schedules. Serves as expert advisor in directing the technical approach to task problems. Depending on area of assignment, tasks may include but are not limited to: directs or performs structural tests: static load, mass properties, steady state acceleration, and model survey of spacecraft components; directs test setups, determines instrumentation methods, provides calculations for test loading and generates test reports; analyzes and evaluates structural performance. Directs or performs modal survey, vibration, and acoustic tests on flight hardware; designs fixtures and systems for thermal vacuum testing of spacecraft and support hardware; generates and tracks test estimates, leads and supports facility improvements for either thermal vacuum or cryogenic upgrades; assesses cleanliness requirements and develops estimates for contamination support, performs material evaluations, monitors cleanrooms for molecular contamination, and evaluates cleanroom certification results; directs engineering tasks for maintenance, repair, or upgrade of mechanical and electrical systems; performs optical engineering tasks involving analysis of optical component performance, precision optical alignments, and development of test plans, directs test setups, troubleshoots, maintains and repairs optical test equipment, designs mounts and fixtures; develops and implements inspection and test procedures for ground-based PV/S and flight hardware; develops specifications for modification of overhead cranes, including installations, retrofits and maintenance; or directs the assembly, integration and handling of ground support equipment and flight hardware. May perform systems engineering tasks and provide oversight of flight program areas, such as instruments, integration and test.</td>
<td>BS Degree in Engineering, Physics, or technically related field is required.</td>
<td>This position requires a minimum of 12 years related technical experience in the aerospace industry with specific demonstrated technical expertise in relevant areas such as structures, design, analysis, and testing of aerospace hardware, spacecraft integration, or electromechanical systems. Technical team leadership experience is required.</td>
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<tr>
<td>Engineering Tech I</td>
<td>Performs standard and routine tasks, records data, and follows procedures. Works under close supervision, receiving on-the-job training in areas such as environmental test facility operations, electrical and mechanical maintenance, cleanroom operations, thermal blanket fabrication, mechanical integration, plating and machining operations, and recertification of lifting and handling devices and pressure vessel systems. Depending on area of assignment, assists senior technicians and engineers in: performing spacecraft environmental tests; repairing equipment; assembly, integration and handling of ground support equipment; testing and inspection of lifting device equipment and pressure vessels; fabrication of flight and test thermal blankets; or other duties associated with area of assignment.</td>
<td>High School diploma or GED is required.</td>
<td>Some related experience is preferred. Must be computer-literate. Familiarity with hand tools, and electrical and mechanical principles is required.</td>
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<tr>
<td>Engineering Tech II</td>
<td>Performs basic tasks and standard assignments, demonstrating developing competency. Is directed and coached by supervisor and more senior technicians. Performs duties in areas such as environmental test facility operations, electrical and mechanical maintenance, cleanroom operations, thermal blanket fabrication, mechanical and electrical integration, plating and machining operations, metal cutting, and recertification of lifting and handling devices and pressure vessel systems. Depending on area of assignment, assists senior technicians and engineers in: performing spacecraft environmental tests; repairing and maintaining equipment, facilities and systems; assembly, integration and handling of ground support equipment; testing and inspection of lifting device equipment and pressure vessels; operating conventional and CNC equipment and machine tools to fabricate flight and non-flight hardware components; fabrication of flight and test thermal blankets; or other duties associated with area of assignment.</td>
<td>High School diploma or GED is required. Technical school training is preferred.</td>
<td>This position requires a minimum of two years’ experience related to the area of assignment. Must be computer-literate. Familiarity with hand tools, and electrical and mechanical principles is required.</td>
</tr>
<tr>
<td>Engineering Tech III</td>
<td>Performs tasks demonstrating competency. Is directed and coached by supervisor and more senior technicians. Performs duties in areas such as environmental test facility operations, electrical and mechanical maintenance, cleanroom operations, thermal blanket fabrication, mechanical integration, plating and machining operations, metal cutting, and recertification of lifting and handling devices and pressure vessel systems. Depending on area of assignment, works with senior technicians and engineers in: performing spacecraft environmental tests; repairing and maintaining equipment, facilities and systems; assembly, integration and handling of ground support equipment; testing and inspection of lifting device equipment and pressure vessel systems; operating conventional and CNC equipment and machine tools to fabricate flight and non-flight hardware components; fabrication of flight and test thermal blankets and test cables/harnesses; or other duties associated with area of assignment.</td>
<td>High School diploma or GED is required. Technical school training is preferred.</td>
<td>This position requires a minimum of four years’ experience related to the area of assignment. Must be computer-literate. Ability to perform with minimal supervision and to read and interpret schematics, work from sketches and drawings is required.</td>
</tr>
<tr>
<td>Engineering Tech IV</td>
<td>Performs complex tasks, demonstrating full competency. May direct small group. Performs duties in areas such as environmental test facility operations, electrical and mechanical maintenance, cleanroom operations, thermal blanket fabrication, mechanical integration, plating and machining operations, metal cutting, and recertification of lifting and handling devices and pressure vessel systems. In this skilled level, depending on area of assignment, works with or leads other technicians in: performing spacecraft environmental tests; repairing and maintaining equipment, facilities and systems; assembly, integration and handling of ground support equipment; testing and inspection of lifting device equipment and pressure vessels; operating conventional and CNC equipment and machine tools to fabricate flight and non-flight hardware components; fabrication of flight and test thermal blankets and test cables/harnesses; or other duties associated with area of assignment.</td>
<td>High School diploma or GED is required. Specialized training and operator certification pertaining to area of assignment is required.</td>
<td>This position requires a minimum of eight years’ experience related to the area of assignment. Knowledge of engineering terms and ability to efficiently operate computers is required. Ability to perform with minimal supervision and to read and interpret schematics, work from sketches and drawings is required.</td>
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<tr>
<td>Engineering Tech V</td>
<td>Performs complex tasks, demonstrating full competency. May direct small group. Performs duties in areas such as environmental test facility operations, electrical and mechanical maintenance, cleanroom operations, thermal blanket fabrication, mechanical integration, plating and machining operations, metal cutting, and recertification of lifting and handling devices and pressure vessel systems. As technical specialist, depending on area of assignment, works with or leads other technicians in: performing spacecraft environmental tests; repairing and maintaining equipment, facilities and systems; assembly, integration and handling of ground support equipment; testing and inspection of lifting device equipment and pressure vessels; operating conventional and CNC equipment and machine tools to fabricate flight and non-flight hardware components; fabrication of flight and test thermal blankets and test cables/harnesses; or other duties associated with area of assignment.</td>
<td>High School diploma or GED is required. Specialized training and operator certification pertaining to area of assignment is required.</td>
<td>This position requires a minimum of 10 years’ experience directly related to the area of assignment with demonstrated leadership and communication skills. Knowledge of engineering terms and ability to efficiently operate computers is required. Ability to perform with minimal supervision and to read and interpret schematics, work from sketches and drawings is required.</td>
</tr>
<tr>
<td>Engineering Tech VI</td>
<td>Provides direction to a group of lower level technicians. Schedules and assigns tasks, ensuring adequate coverage. Trains, coaches and mentors. Demonstrates full competency. Provides technical direction to lower level technicians in areas such as environmental test facility operations, electrical and mechanical maintenance, cleanroom operations, thermal blanket fabrication, mechanical integration, plating and machining operations, metal cutting, and recertification of lifting and handling devices and pressure vessel systems. Depending on area of assignment, works with or leads other technicians in: performing spacecraft environmental tests; repairing and maintaining equipment, facilities and systems; assembly, integration and handling of ground support equipment; testing and inspection of lifting device equipment and pressure vessels; operating conventional and CNC equipment and machine tools to fabricate flight and non-flight hardware components; fabrication of flight and test thermal blankets and test cables/harnesses; or other duties associated with area of assignment.</td>
<td>High School diploma or GED is required. Specialized training and operator certification pertaining to area of assignment is required.</td>
<td>This position requires a minimum of 12 years’ experience directly related to the area of assignment with demonstrated leadership, communication, and interpersonal skills. Knowledge of engineering terms and ability to efficiently operate computers is required. Ability to perform with minimal supervision and to read and interpret schematics, work from sketches and drawings is required.</td>
</tr>
<tr>
<td>Janitor/Clean Room Assistant</td>
<td>Performs a combination of the following: sweeping, mopping, scrubbing and polishing floors. Duties include removal of trash and office refuse, dusting equipment, furniture or fixtures. Provides general cleanup of areas immediately outside buildings. Other duties include polishing metal fixtures or trimmings, cleaning lavatories and providing minor maintenance services. Operates buffing machine, 48 oz broom, and cleaning devices. Will work in areas with close proximity to sensitive costly space flight hardware set-ups. Provides cleanroom operations support, including specialized cleaning of space flight hardware and parts.</td>
<td>High School diploma or GED is preferred.</td>
<td>This position requires a minimum of 2 years’ experience including operation and use of janitorial equipment and machines. Some cleanroom experience is desirable. Experience in stripping and waxing floors, buffing and spray-waxing utilizing a power-buffing machine is required. Must be able to work with potentially hazardous materials and follow safety and cleanroom procedures and protocols.</td>
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<tr>
<td>Network Admin.</td>
<td>Duties include Code 549 network administration activities, ordering, installation, repair, and configuration of network and computer hardware and software. Designs, installs, maintains and coordinates the use of the network system. Evaluates hardware and software and peripheral equipment for large, complex networks. Manages network performance. Troubleshoots and resolves complex problems to ensure quality transmission service on the network. Maintains, creates/deletes user accounts, maintains and updates system security plans on all platforms. Implements and coordinates network policies, procedures and standards. Enforces security procedures. Troubleshoots complex LAN problems. Responsible for responding to and completing trouble calls, testing, and projects. Keeps Information Technology (IT) Manager advised of ongoing operations, events, and problems. Performs other duties as assigned based on operational needs and customer requirements.</td>
<td>B.S. degree in Computer Science or Management Information Systems or equivalent experience is required. Certification as Certified Cisco Network Administrator and Certified Information System Security Professional status is desirable.</td>
<td>This position requires a minimum of 7 years of related IT experience on government contracts.</td>
</tr>
<tr>
<td>Principal Engineer</td>
<td>Serves as a professional authority in one engineering discipline or specialty area. Provides expertise in space and/or ground hardware systems analysis, design, development, integration and test. Manages, directs, and coordinates support for project programs. Is responsible for schedule development, manpower allocations, budget management, and overall coordination of manpower. Interfaces with and directs a variety of service contractors, prime contractors, civil servants and foreign nationals. Conducts preliminary and advanced design studies and prepares and presents major portions of engineering proposals. Conceives and develops solutions to complex analytical, design, and test problems that require program(s) experience. Contributes to systems philosophy and design objectives. Assures continuity of design features from advanced design through contract status. Writes complex specifications and engineering reports as a result of advance studies, special engineering investigations, and similar activities. Develops aspects of new theory and design criteria for general application. Conducts trade study assessments, and makes recommendations, supports CDR and PDR, reviews deliverables, provides technical consultation advice to Task Managers regarding design issues, development and test approaches, and test result assessments.</td>
<td>B.S. degree in Engineering or related technical field is required.</td>
<td>This position requires a minimum of 15 years directly related experience in an aerospace hardware test and integration environment in positions requiring management and technical direction skills.</td>
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