

Position	Definition
CAD/Draftsman	<p>Description—The CAD/Draftsman is responsible for the detail design and documentation of concepts provided by packaging and other engineers. The CAD/Draftsman uses schematics and parts lists provided by engineering and generates printed circuit card layouts, drill casings, and assembly drawings for checking, review, and sign-off. Drafts detailed working drawings of boxes and mechanical devices, indicating dimensions and tolerances, fasteners and joining requirements, and other engineering data; and makes drawing adjustments. The CAD/Draftsman uses CAD/CAE tools to generate the detail mechanical fabrication drawings required to implement packaging concepts.</p> <p>Education—Two years of college education from an accredited institution or successful completion of an accredited technical trade school.</p> <p>Experience—Five years of CAD/CAE experience in electronic packaging/printed circuit board layout, using ViewLogic, PADs, AutoCAD, ProE, Solid Edge, or similar systems.</p>
Computer System Engineer/System Admin	<p>Description—The Computer Systems Engineer plans and controls the use of computing resources including general purpose computers and peripherals, work stations, and Local Area Networks, software operating systems, software development tools and packages. The Computer Systems Engineer coordinates maintenance and upgrades to the computer hardware and software operating systems.</p> <p>Education—A Bachelor of Science degree, or equivalent education and experience, in Computer Sciences, Mathematics, or Engineering from an accredited institution.</p> <p>Experience—Five years of computer systems experience in a complex software environment with multiple computer systems and operating systems in a Local Area Network, and must have knowledge of software engineering principles.</p>
Configuration Management Specialist	<p>Description—A Configuration Management Specialist is responsible for establishing, maintaining, coordinating, and executing a Configuration Management (CM) Plan, which provides a comprehensive audit trail of changes, updates, amendments, or modifications to items, either developed or produced, including hardware, software, and documentation. A CM Specialist is responsible for establishing and maintaining an appropriate CM Review Board as well as the procedures and processes necessary for this board to be effective and responsive. A CM Specialist should be familiar with all contracted CM requirements and the applicable specifications and standards.</p> <p>Education—Two years of college education from an accredited institution, or have equivalent education and experience.</p> <p>Experience—Two years of CM experience as described above.</p>
Education Outreach Specialist	<p>Description—The Education Outreach Specialist creates and executes Education and Public Outreach (EPO) programs to educate the public and the educational community about NASA projects, space technology, science, and exploration. Works with Government personnel to create educational materials (written and graphical) aimed at a variety of age groups. Helps to plan EPO events within the community or at Government facilities.</p> <p>Education—Bachelor's Degree, or equivalent education and experience, in Education, English, Graphics Arts, or related disciplines.</p> <p>Experience—Five years experience of experience contributing to EPO programs within the aerospace, technology, or science community. Familiarity with the NASA mission and Strategic Plan.</p>
Electrical Assembler	<p>Description—The Electrical Assembler shall assemble flight and ground support components using electronic test equipment and hand tools, following blueprints, wiring, diagrams, and manufacturing standards. The Electrical Assembler shall: assemble components such as transformers, switches, jacks, terminals, and circuit boards to panel or chassis using hand tools, connect lead wires of components such as resistors, capacitors, transistors, and diodes to specified terminals, using soldering iron or spot welders; route and fasten precut jumper wire and cables to specified contact points following wiring diagrams and wire lists to form circuit wiring; test circuits for short and open wires, using continuity meters; solder precut wires to multiple connectors and lace wires with lacing cord or plastic strips to assemble cable; test completed assembly using test equipment such as oscilloscope and multimeters; resolder connections or replace defective components to repair defective equipment. The Electrical Assembler shall have all necessary certifications to be able to assemble flight and ground support components.</p> <p>Education—A High School Diploma.</p> <p>Experience—Five years of experience in manufacturing and assembling specifically electronic units. Must have 3 years experience with aerospace flight and ground support equipment.</p>
Electrical Assembler 2	<p>Description—The Electrical Assembler 2 shall assemble flight and ground support components using electronic test equipment and hand tools, following blueprints, wiring, diagrams, and manufacturing standards. The Electrical Assembler shall: assemble components such as transformers, switches, jacks, terminals, and circuit boards to panel or chassis using hand tools, connect lead wires of components such as resistors, capacitors, transistors, and diodes to specified terminals, using soldering iron or spot welders; route and fasten precut jumper wire and cables to specified contact points following wiring diagrams and wire lists to form circuit wiring; test circuits for short and open wires, using continuity meters; solder precut wires to multiple connectors and lace wires with lacing cord or plastic strips to assemble cable; test completed assembly using test equipment such as oscilloscope and multimeters; resolder connections or replace defective components to repair defective equipment. The Electrical Assembler 2 shall have all necessary certifications to be able to assemble flight and ground support components.</p> <p>Education—A High School Diploma.</p> <p>Experience—Ten years of experience in manufacturing and assembling specifically electronic units. Must have 5 years experience with aerospace flight and ground support equipment.</p>

Electrical Engineer 1	<p>Description—An Electrical Engineer 1 shall provide a working level expertise in electrical engineering, analog, and digital system design, analysis, and test. An Electrical Engineer 1 shall provide technical guidance in interfacing with other engineering disciplines. The Electrical Engineer 1 shall have knowledge of microprocessor design, digital circuit design, analog circuit design, microwave circuitry, radio frequency circuits, and design of circuitry to interface with instrumentation sensors, motors, and actuators. The Electrical Engineer 1 shall have the ability to design components and systems for spaceflight instruments and ground support equipment. The Electrical Engineer 1 shall have knowledge of FMEA theory and analysis techniques.</p> <p>Education—A Bachelor of Science degree, or equivalent education and experience, in Electrical Engineering, Physics, or Computer Science from an accredited institution.</p> <p>Experience—Four years of professional experience. Two years of this experience must be in the aerospace hardware/software field with automated design and development tools, as well as methods and specifications for electrical and digital systems design, test, interface, debug, and fabrication.</p>
Electrical Engineer 2	<p>Description—An Electrical Engineer 2 shall provide guidance and expertise in electrical engineering and digital system design, analysis, and test. An Electrical Engineer 2 should be capable of organizing and coordinating task level efforts including those tasks that require an interface with other engineering disciplines.</p> <p>Education—A Bachelor of Science degree in Electrical Engineering, Physics, Mathematics, or Computer Science from an accredited institution.</p> <p>Experience—Ten years of professional experience with a least 5 years experience in the aerospace field with automated design and development tools. Experience with methods, standards, and specifications for electrical and digital systems design, test, interface, debug, and fabrication is required.</p>

Electrical/Electronic Designer	<p>Description—The Electrical/Electronic Designer shall perform operations required to design electronic hardware as specified in the individual task assignments. The Electronic Designer shall analyze the technical characteristics and operations of system components and related test equipment. The Electronic Designer shall provide support in the design of systems, system components and related test equipment.</p> <p>Education—Two years of college education from an accredited institution or successful completion of an accredited technical trade school, or equivalent education and experience.</p> <p>Experience—Five years experience in electronic design.</p>
Electrical/Electronic Technician 1	<p>Description—The Electrical/Electronic Technician 1 shall recommend changes in circuitry or installation specifications to simplify assembly and maintenance. The Electrical/ Electronic Technician 1 shall assemble experimental circuitry (breadboard) or complete prototype models using engineering instruction, technical manuals, and knowledge of electrical/electronic systems and components and their functions. The Electrical/Electronic Technician 1 shall set up standard test apparatus or conceive test equipment and circuitry, and conduct functional, operational, environmental and life test to evaluate the performance and reliability of prototype or production models. The Electrical/Electronic Technician 1 shall analyze and interpret test data. The Electrical/Electronic Technician 1 shall adjust, calibrate, align, and modify circuitry and components and record unit performance.</p> <p>Education—A technical school graduate, or have equivalent education and experience.</p> <p>Experience—Five years of experience in aerospace flight/ground support equipment assembly and evaluation.</p>
Electrical/Electronic Technician 2	<p>Description—The Electrical/Electronic Technician 2 shall recommend changes in circuitry or installation specifications to simplify assembly and maintenance. The Electrical/ Electronic Technician 2 shall assemble experimental circuitry (breadboard) or complete prototype models using engineering instruction, technical manuals, and be capable of making engineering decisions on electrical/electronic systems and components and their functions. The Electrical/Electronic Technician 2 shall set up standard test apparatus or conceive test equipment and circuitry, and conduct functional, operational, environmental and life test to evaluate the performance and reliability of prototype or production models. The Electrical/Electronic Technician shall analyze and interpret test data. The Electrical/Electronic Technician shall adjust, calibrate, align, and modify circuitry and components and record unit performance. The Electrical/electronic technician 2 shall have all necessary certifications to be able to assemble and rework space flight electronics equipment. The Electrical/Electronics technician 2 should have the ability to resolve difficult and unusual assembly/rework situations and assembly situations. The Electrical/Electronics technician 2 shall require little supervision.</p> <p>Education—A technical school graduate, or have equivalent education and experience.</p> <p>Experience—Ten years of experience in aerospace flight/ground support equipment assembly and evaluation.</p>
Electro-Optical Engineer	<p>Description—The Electro-Optical Engineer shall perform design, development, calibration, and evaluation of electro-optic elements, subsystems, and systems for spaceflight and ground-based systems. Included are lasers, detectors, and beam control assemblies.</p> <p>Education—A Bachelor of Science Degree, or equivalent education and experience, in physics or engineering.</p> <p>Experience—Five years experience in the design, fabrication, and testing of lasers, detectors, and control assemblies.</p>
GN&C Embedded Software Engineer	<p>Description—The GN&C Embedded Software Engineer shall support development of flight software systems through software life cycle. The GN&C Embedded Software Engineer shall perform flight software requirement analysis, specifications, design, development, integration and testing, and on-orbit software maintenance for Guidance, Navigation, and Control (GN&C) systems and components. The GN&C Embedded Software Engineer shall code, document, configure and debug flight software, simulators and test software. The GN&C Embedded Software Engineer shall assist in preparation of design review (PDR/CDR) material.</p> <p>Education—A Bachelor of Sciences degree, or equivalent education and experience, in computer sciences, electrical engineering, or mathematics.</p> <p>Experience—Five years of related professional experience in flight software systems development for spacecraft/aircraft and/or spaceborne/airborne instruments or equivalent experience with embedded systems.</p>
GN&C Engineer 1	<p>Description- The Guidance, Navigation, and Control (GN&C) Engineer 1 serves as a member of an analysis or hardware team in the development of a GN&C system. As a member of an analysis team, the GN&C Engineer 1 shall perform attitude control subsystem (ACS) analysis and design, ACS algorithm development, simulation, integration and testing, and launch and in-orbit checkout, under the direction of a lead analyst. As a member of a hardware team, the GN&C Engineer 1 shall perform circuit analysis, schematic capture, simulation, thermal analysis, box level analysis, and vibration analysis. The GN&C Engineer 1 should be familiar with electrical and/or mechanical computer aided design tools and their uses.</p> <p>Education- A Bachelor of Science degree, or equivalent education and experience, in engineering or mathematics from an accredited institution.</p> <p>Experience- Two years of experience relating to the position responsibilities in the analysis and development of GN&C hardware, software, sensor hardware, sensor interfaces, or GN&C algorithms and testing.</p>

GN&C Engineer 2	<p>Description- The Guidance, Navigation, and Control (GN&C) Engineer 2 serves as a member of an analysis or hardware team in the development of a GN&C system or independently performs small-scale analysis or design tasks. As a member of an analysis team or independent analyst, the GN&C Engineer 2 shall perform attitude control subsystem (ACS) analysis and design, ACS algorithm development, simulation, integration and testing, and launch and in-orbit checkout, as coordinated by a lead analyst or other responsible engineer. As a member of a hardware team, the GN&C Engineer 2 shall perform flight box or board level design with some supervision and direction, selection of flight parts, integration and test of the ACS subsystem, and support environmental testing. The GN&C Engineer 2 shall have a good working knowledge of mechanical and electrical computer aided design tools including VHDL, board layout tools, thermal analysis, and finite element analysis tools.</p> <p>Education- A Bachelor of Science degree, or equivalent education and experience, in engineering or mathematics from an accredited institution.</p> <p>Experience- Five years of experience relating to the position responsibilities in the analysis and development of GN&C hardware, software, sensor hardware, sensor interfaces, or GN&C algorithms and testing.</p>
GN&C Engineer 3	<p>Description- The Guidance, Navigation, and Control (GN&C) Engineer 3 serves as a member or lead of an analysis or hardware team in the development of a GN&C system or independently performs significant analysis or design tasks. The GN&C Engineer 3 shall possess expert-level expertise in the analysis and design of attitude control system (ACS) algorithms or hardware. As a member of an analysis team or independent analyst, the GN&C Engineer 3 shall perform attitude control subsystem (ACS) analysis and design, ACS algorithm development, simulation, integration and testing, and launch and in-orbit checkout, or lead a team of engineers performing this work. As a member of a hardware team, the GN&C Engineer 3 shall have expert-level knowledge of mechanical and/or electrical computer-aided design (CAD) tools (schematic capture, board layout tools, flight hardware parts selection and design, hardware simulators, thermal and finite element modeling CAD packages). The GN&C Engineer 3 shall have experience in integration and test, environmental testing, and general spacecraft activities.</p> <p>Education- A Bachelor of Science degree, or equivalent education and experience, in engineering or mathematics from an accredited institution.</p> <p>Experience- Ten years of experience relating to the position responsibilities in the analysis and development of GN&C hardware, software, sensor hardware, sensor interfaces, or GN&C algorithms and testing.</p>
GN&C Engineer--Chief	<p>Description- The Guidance, Navigation, and Control (GN&C) Chief Engineer shall be a renowned expert in the analysis and design of attitude control system (ACS) algorithms or hardware. The GN&C Chief Engineer shall lead analysis or hardware teams in the development of GN&C systems or independently perform highly difficult and significant analysis or design tasks. The GN&C Chief Engineer shall possess world-class expert-level expertise and serve as the established technical specialist and technical authority on a wide array of ACS analysis or hardware topics. The GN&C Chief Engineer shall be intimately familiar with spacecraft design, spacecraft systems engineering, test, integration, and the problems that are encountered with the entire GN&C system. The GN&C Chief Engineer shall be able to impact a spacecraft immediately and use their expertise to implement time and schedule saving techniques, debug any efforts that require attention, and mentor younger engineers.</p> <p>Education- A Bachelor of Science degree, or equivalent education and experience, in engineering or mathematics from an accredited institution.</p> <p>Experience- Fifteen years of experience relating to the position responsibilities in the analysis and development of GN&C hardware, software, sensor hardware, sensor interfaces, or GN&C algorithms and testing.</p>
GN&C Systems Engineer 1	<p>Description- The Guidance, Navigation, and Control (GN&C) Systems Engineer 1 serves as a lead of a small GN&C subsystem team, the deputy lead for a larger team, or works under the guidance of a more senior engineer to provide GN&C insight and oversight to an out-of-house mission. The GN&C Systems Engineer 1 shall possess some knowledge of a broad range of GN&C areas, including analysis and design, algorithm development, hardware, simulation, integration and testing, and launch and in-orbit checkout. The GN&C Systems Engineer 1 shall be capable of assisting with the planning, programming, development, oversight, scheduling, and overall management of resources for GN&C subsystems.</p> <p>Education- A Bachelor of Science degree, or equivalent education and experience, in engineering or mathematics from an accredited institution.</p> <p>Experience- Five years of experience relating to the position responsibilities in the analysis and development of GN&C hardware, software, sensor hardware, sensor interfaces, or GN&C algorithms and testing.</p>
GN&C Systems Engineer 2	<p>Description- The Guidance, Navigation, and Control (GN&C) Systems Engineer 2 serves as a lead of a GN&C subsystem team, the primary GN&C representative on a project systems engineering team, or provides GN&C insight and oversight to an out-of-house mission. The GN&C Systems Engineer 2 shall possess detailed knowledge of a broad range of GN&C areas, including analysis and design, algorithm development, hardware, simulation, integration and testing, and launch and in-orbit checkout. The GN&C Systems Engineer 2 shall be capable of performing the planning, programming, development, oversight, scheduling, and overall management of resources for GN&C subsystems. The GN&C Systems Engineer 2 shall be able to coordinate the design, development, and testing of all components of the GN&C and other spacecraft subsystems to ensure that the overall design satisfies system level requirements.</p>

	<p>Education- A Bachelor of Science degree, or equivalent education and experience, in engineering or mathematics from an accredited institution.</p> <p>Experience- Ten years of experience relating to the position responsibilities in the analysis and development of GN&C hardware, software, sensor hardware, sensor interfaces, or GN&C algorithms and testing, including at least two years of technical team leadership experience.</p>
GN&C Systems Engineer 3	<p>Description- The Guidance, Navigation, and Control (GN&C) Systems Engineer 3 serves as a GN&C lead of a multi-Center or cross-Agency project or provides GN&C insight and oversight at a program level or to flagship-class out-of-house missions. The GN&C Systems Engineer 3 shall be expert in a broad range of GN&C areas, including analysis and design, algorithm development, hardware, simulation, integration and testing, and launch and in-orbit checkout. The GN&C Systems Engineer 3 shall be able to coordinate the design, development, and testing of all components of the GN&C and other spacecraft subsystems across multiple organizations to ensure that the overall design satisfies system level requirements. The GN&C Systems Engineer 3 shall possess world-class expert-level expertise and serve as the established technical specialist and technical authority on a wide array of GN&C topics.</p> <p>Education- A Bachelor of Science degree, or equivalent education and experience, in engineering or mathematics from an accredited institution.</p> <p>Experience- Fifteen years of experience relating to the position responsibilities in the analysis and development of GN&C hardware, software, sensor hardware, sensor interfaces, or GN&C algorithms and testing, including at least five years of technical team leadership experience.</p>
Integration & Test Engineer	<p>Description-The Integration and Test Engineer (I&TE) is responsible for the integration of spacecraft components and subsystems with the spacecraft. The I&TE must develop and execute comprehensive procedures that verify all physical and functional spacecraft interface requirements. The I&TE is responsible for the safety of equipment and personnel during the integration process. The I&TE ensures the availability during integration of required support equipment, including breakout boxes, test cables, test equipment, and software test procedures.</p> <p>Education-A Bachelor of Science degree, or equivalent education and experience, in Aeronautical, Mechanical, or Electrical Engineering, Physics, Mathematics or Computer Sciences from an accredited institution.</p> <p>Experience-Five years or more of integration and test experience as described above.</p>
Junior Engineer	<p>Description-The Junior Engineer shall perform basic electrical or mechanical engineering analysis, assessment, design, manufacturing, test, or operations functions under the direction of a mid-level or senior-level engineer in support of projects to develop technology, flight systems, or ground systems.</p> <p>Education-A Bachelor of Science Degree, or equivalent education and experience, in an appropriate engineering discipline or related physical science degree.</p> <p>Experience-Zero to three years of experience in the activities described above.</p>
Machinist	<p>Description-The Machinist shall fabricate aerospace mechanical and/or electromechanical parts per detailed drawings. The Machinist shall assist in the final assembly of aerospace mechanisms or structures. The Machinist shall operate with proficiency the following machines and sheet metal equipment: vertical and horizontal milling machines; jig bores; engine and tool room lathes; brakes; surface and cylindrical grinders; drill presses; and band saws. The Machinist shall read drawings for product specifications such as dimensions, tolerances, and tooling instructions.</p> <p>Education-A High School Diploma or equivalent, plus further appropriate education in a trade school and/or extension courses.</p> <p>Experience-Five years of experience as a machinist.</p>
Manufacturing Engineer	<p>Description-The Manufacturing Engineer shall define assembly sequence and procedures for complete manufacturing of space-qualified hardware. The Manufacturing Engineer shall document all manufacturing aids and controls. The Manufacturing Engineer shall resolve technical and/or operational situations as they arise and continually monitor manufacturing and assembly for conformance to required specifications.</p> <p>Education-A Bachelor of Science Degree, or equivalent education and experience, in an appropriate engineering discipline or related physical science degree.</p> <p>Experience-Five years of experience in development, manufacturing, assembly and qualification of aerospace hardware.</p>
Mechanical Designer	<p>Description-The Mechanical Designer shall prepare clear, complete, and accurate working drawings from sketches and/or notes for manufacturing purposes according to specified dimensions. The Mechanical Designer shall make final sketches of proposed drawings, checking dimensions of parts, materials to be used, relation of one part to another, and the relation of various parts to whole structures. The Mechanical Designer shall make adjustments or changes as necessary.</p> <p>Education-Completed a course of study in drafting technology or have 5 years of experience in design drafting.</p> <p>Experience-Five years of experience in aerospace system hardware with at least 3 years of experience in ground support equipment.</p>
Mechanical Engineer 1	<p>Description-A Mechanical Engineer 1 must be well versed in basic mechanical engineering principles including structures, mechanisms, and modeling methods such as finite element modeling. A Mechanical Engineer 1 must be familiar with automated design and development tools and have the ability to prepare and manipulate detailed simulations of mechanical systems. A Mechanical Engineer 1 must be able to perform extensive analyses of mechanical systems resulting in performance/weight/cost trade-off options. Methods and specifications for mechanical systems design, test, fabrication and integration must be well understood.</p>

	<p>Education—A Bachelor of Science degree, or equivalent education and experience, in Mechanical or Aerospace Engineering from an accredited institution.</p> <p>Experience—Three years of professional experience with 2 years of experience directly related to aerospace hardware applications as described above. This experience must include mechanical space systems assembly, integration and environmental qualification.</p>
Mechanical Engineer 2	<p>Description—A Mechanical Engineer 2 requires expertise in a variety of disciplines including structures, analyses, mechanisms, and modeling methods such as finite element modeling. A Mechanical Engineer 2 must be capable of organizing and coordinating task level efforts including those tasks that require an interface with other engineering disciplines. A Mechanical Engineer 2 initiates, develops, and documents analyses of structures, mechanisms, and devices for spaceflight use, initiates and conducts NASTRAN analyses to produce outputs in formats capable of being integrated into other programs as specified, determines loads in structural members, and predicts natural frequencies and margins of safety. Methods and specifications for mechanical systems design, test, and fabrication must be well understood.</p> <p>Education—A Bachelor of Science degree, or equivalent education and experience, in Mechanical Engineering or Mathematics from an accredited institution.</p> <p>Experience—Ten years of professional experience with 5 years of experience providing senior-level guidance in support of mechanical engineering tasks in the aerospace environment. This experience must have included extensive use of automated design and development tools and the manipulation of detailed simulations for mechanical systems. This experience must have included extensive analyses of mechanical systems resulting in extensive performance/weight/cost trade-off options.</p>
Mechanical Technician	<p>Description—A Mechanical Technician performs mechanical fabrication and assembly under the direction of Mechanical Engineers and must be able to read mechanical schematics, logic flow diagrams, and blueprints. A Mechanical Technician designs and fabricates test hardware and prepares flight hardware for testing, uses simple machine shop tools to fabricate fittings and jigs, and operates vacuum pumps, leak detectors, and temperature sensors.</p> <p>Education—Two years of college education from an accredited institution or have successfully completed an accredited trade school, or have equivalent education and experience.</p> <p>Experience—Five years of an aerospace experience with a variety of laboratory equipment such as scales, flowmeters, pressure/vacuum gauges, and temperature sensors.</p>
Mission Assurance and Safety Manager	<p>Description—The Mission Assurance and Safety Manager manages all safety and mission assurance (SMA) activities on the METS III contract. Ensures that all Contractor work on METS III (including subcontractor activity) is performed in accordance with applicable SMA requirements. Performs regular audits of SMA practices on the METS III Contract and ensures that corrective action is taken in response to any issues. Communicates frequently with Government SMA counterparts and collaborates on process improvement activities.</p> <p>Education—A Bachelor of Science Degree, or equivalent education and experience, in an appropriate engineering discipline or related physical science degree.</p> <p>Experience—Ten years of experience in the direct development and implementation of SMA processes in an aerospace environment. Intimate familiarity with NASA and GSFC SMA requirements and policies.</p>
Multimedia Production Specialist	<p>Description—The Multimedia Production Specialist assists technical teams in documenting their work through production and archiving of written material, photographs, and/or audiovisual recordings. Assists in the production of proposals, technical review materials, Education and Public Outreach (EPO) media, and technical reports.</p> <p>Education—Associate's Degree, or equivalent experience, in a relevant discipline such as graphic arts, information technology, communications, or English.</p> <p>Experience—Three or more years of experience related to the duties described above.</p>
Optical Engineer	<p>Description—The Optical Engineer shall perform design, development, calibration, and evaluation of optical elements, subsystems, and systems for spaceflight and ground-based systems. Optical components include mirrors, lenses, telescopes, and other optical sensors and measurement systems.</p> <p>Education—A Bachelor of Science Degree, or equivalent education and experience, in physics or engineering.</p> <p>Experience—Five years experience in the design, fabrication, and testing of elements, subsystems, and systems that comprise an optical instrument.</p>
Optical Analyst	<p>Description—An Optical Analyst shall provide system level analysis support for optic and electro-optic instrument and experiment design, calibration, and verification. An Optical Analyst shall perform analysis of optic and electro-optic elements, subsystems, and systems that comprise an optical instrument. An Optical Analyst duties shall include system end-to-end studies, digital communication signal to noise analysis, establishing error budgets, etc.</p> <p>Education—A Bachelor of Science degree, or equivalent education and experience, in physics or engineering.</p> <p>Experience—Ten years of experience in optical systems analysis with extensive knowledge in analysis techniques and methodology required during development of aerospace flight systems, components, and related ground support equipment.</p>
Optical Technician	<p>Description—The Optical Technician processes, assembles, tests, and operates optical equipment including space flight hardware for spacecraft components and instruments. Work is performed using a wide variety of optical test, metrology, and calibration equipment in various contamination-controlled environments.</p> <p>Education—Associate's degree, or equivalent experience, in physics or optics.</p> <p>Experience—Three or more years of experience using equipment necessary to perform the duties described above.</p>

Packaging Engineer	<p>Description—The Packaging Engineer has overall responsibility for electronics box (unit) level packaging, working closely with other engineers responsible for unit level design including Electrical Engineers responsible for circuit card design. The Packaging Engineer determines conceptual box level packaging design including: overall package envelope dimensions; printed wiring board envelop dimensions; special placement criteria for heat dissipating piece parts; packaging considerations for EMI/EMC; and packaging considerations for radiation shielding. The Packaging Engineer uses the mass properties developed for each component to monitor spacecraft parameters such as center of gravity, weight (dry and wet), and moments of inertia.</p> <p>Education—A Bachelor of Science degree, or equivalent education and experience, in Mechanical or Electrical Engineering from an accredited institution.</p> <p>Experience—Three years electronics packaging experience with spacecraft electronics boxes.</p>
Parts/Materials Technician	<p>Description—A Parts/Materials Technician provides an interface between procurement functions and the project tasks. A Parts/Materials Technician shall be responsible for coordinating order receipt, inspection, distribution, and inventory.</p> <p>Education—A high school diploma or GED.</p> <p>Experience—Three years experience in field handling of electronic and electro-mechanical hardware.</p>
Propulsion Engineer 1	<p>Description—The Propulsion Engineer 1 shall perform engineering trade studies, analyses, direct technicians, perform tests, and write engineering documentation such as requirements, procedures, analyses, and test reports. The contractor shall have the engineering skills to perform chemical, mechanical, thermal, and electrical analysis and engineering evaluation related to chemical and electric propulsion systems. The contractor shall work in a dynamic team of engineers and technicians and must have outstanding written and oral communication skills. The contractor shall report to a propulsion team leader and may need to direct the work of technicians to perform tests and construction tasks on space flight hardware.</p> <p>Education—Bachelor of Sciences Degree in mechanical, aerospace, or chemical engineering, or a closely related field</p> <p>Experience—At a minimum, university thesis project involving appropriate experimental or analytical work.</p>
Propulsion Engineer 2	<p>Description—The Propulsion Engineer 2 shall perform and review engineering trade studies, analyses, test plans, and other engineering documentation such as requirements, procedures, analyses, and test reports. The contractor shall have the engineering skills to perform chemical, mechanical, thermal, and electrical analysis and engineering evaluation related to chemical and electric propulsion systems. The contractor shall work in a dynamic team of engineers and technicians and must have outstanding written and oral communication skills. The contractor shall report to a propulsion team leader and may need to direct the work of other engineers or technicians to perform tests and construction tasks on space flight hardware. The contractor shall perform reviews at major flight project milestones (PDR, CDR, etc.) and shall have the propulsion experience and expertise needed to suggest alternative designs, point out potential weaknesses, and recommend solution paths. The contractor shall attend anomaly review boards and shall perform investigation as needed to determine root cause and corrective action for failures and anomalies during ground test and flight.</p> <p>Education—Bachelor of Sciences Degree in mechanical, aerospace, or chemical engineering, or a closely related field</p> <p>Experience— 5 or more years of experience working on space flight propulsion programs in an engineering capacity.</p>
Propulsion Technician 1	<p>Description—The Propulsion Technican 1 shall fabricate, inspect, test, and operate spacecraft propulsion hardware and GSE, working with pressurized gases, pneumatic ground support equipment, and chemical laboratory apparatus. The contractor shall also be familiar with DC electrical power supplies, basic electrical circuits, and shall review and run test procedures under the supervision of an engineer or other technician.</p> <p>Education—High School Diploma or G.E.D.</p> <p>Experience—NASA electrical soldering/crimping, crane training, chemical laboratory safety training, clean room training</p>
Propulsion Technician 2	<p>Description—The Propulsion Technician 2 shall fabricate, inspect, test, and operate spacecraft propulsion hardware and GSE, performing tasks including tube welding, fabrication, testing, troubleshooting, propellant loading and launch site operations. The contractor shall work by leading a team of technicians in the construction and testing of space flight hardware, or research experimental equipment, under the supervision of an engineer.</p> <p>Education—High School Diploma, GED, trade school degree or equivalent associates degree</p> <p>Experience—5 or more years of practical duties working on space flight propulsion projects in a technician or laboratory manager capacity.</p>
Quality Assurance Engineer	<p>Description—The Quality Assurance Engineer ensures that space flight system design and development activities are performed in accordance with the quality requirements of the applicable Safety and Mission Assurance Plan. Inspects technical work and ensures that any deviations from controlled procedures and processes are properly documented and resolved.</p> <p>Education—Bachelor's degree in engineering or physical sciences.</p> <p>Experience—5 or more years of experience in quality assurance for aerospace flight programs. Knowledge of governing industry standards for design, manufacturing, test, and operations.</p>

Quality Assurance Engineer 2	<p>Description-The Quality Assurance Engineer 2 ensures that space flight system design and development activities are performed in accordance with the quality requirements of the applicable Safety and Mission Assurance Plan. Inspects technical work and ensures that any deviations from controlled procedures and processes are properly documented and resolved.</p> <p>Education-Bachelor's degree in engineering or physical sciences.</p> <p>Experience-10 or more years of experience in quality assurance for aerospace flight programs. Knowledge of governing industry standards for design, manufacturing, test, and operations.</p>
RF Engineer	<p>Description-The RF engineer designs, develops, tests, and/or operates systems that receive and/or transmit radio frequency (RF) signals for the purpose of communications or navigation. Uses state-of-the art signal processing techniques to encode, decode, or otherwise modify RF signals for these purposes.</p> <p>Education-Bachelor's degree in electrical engineering or a related field.</p> <p>Experience-Two or more years of experience with spaceborne RF systems.</p>
RF Engineer 2	<p>Description-The RF Engineer 2 designs, develops, tests, and/or operates systems that receive and/or transmit radio frequency (RF) signals for the purpose of communications or navigation. Uses state-of-the art signal processing techniques to encode, decode, or otherwise modify RF signals for these purposes. The RF Engineer 2 shall be able to coordinate the design, development, and testing of all RF components and ground support equipment.</p> <p>Education-Bachelor's degree in electrical engineering or a related field.</p> <p>Experience- Five or more years of experience with spaceborne RF systems.</p>
RF Engineer 3	<p>Description-The RF Engineer 3 designs, develops, tests, and/or operates systems that receive and/or transmit radio frequency (RF) signals for the purpose of communications or navigation. Uses state-of-the art signal processing techniques to encode, decode, or otherwise modify RF signals for these purposes. The RF Engineer 3 shall be able to coordinate the design, development, and testing of all RF components and ground support equipment.</p> <p>Education-Bachelor's degree in electrical engineering or a related field.</p> <p>Experience-Ten or more years of experience with spaceborne RF systems.</p>
Safety Engineer 1	<p>Description-The Safety Engineer 1 executes the safety program for a Project or organization. Generates hazard reports, performs risk assessments, and conducts facility and equipment safety inspections to ensure technical work is being performed in accordance with applicable safety regulations.</p> <p>Education-Bachelor's degree in engineering or physical sciences, or equivalent experience.</p> <p>Experience-5 or more years of experience supporting aerospace safety programs.</p>
Safety Engineer 2	<p>Description-The Safety Engineer 2 creates, supervises, and executes the safety program for a Project or organization. Generates hazard reports, performs risk assessments, and conducts facility and equipment safety inspections to ensure technical work is being performed in accordance with applicable safety regulations. Conducts Systems Safety programs for flight projects including consultation with engineering teams and providing guidance on safety issues. Reports Systems Safety status to space flight project managers and organizational supervisors.</p> <p>Education-Bachelor's degree in engineering or physical sciences.</p> <p>Experience-10 or more years of experience supporting aerospace safety programs, including specific experience with systems safety engineering for space flight projects.</p>
Senior Staff Engineer 1	<p>Description-The Senior Staff Engineer 1 duties include: support of complex and/or technologically challenging tasks, including the leadership in generating the Task Plan and Work Control Plan, providing guidance during the task implementation, conducting technology assessments and making recommendations for technology insertions, making trade study assessments and recommendations, supporting CDR and PDR, and reviewing deliverables; providing technical consultation advice to Task Managers regarding design issues, development and test approaches, and test result assessments; leading teams established by the Program Manager to conduct investigations of programmatic or task-level problems and to make recommendations for recovery plans; and providing recommendations regarding Mission Assurance Program implementation considerations.</p> <p>Education-A Bachelor of Science degree, or equivalent education and experience, in Engineering, Computer Science or mathematics from an accredited institution.</p> <p>Experience-Fifteen years of space/ground system design and development experience including at least 7 years of experience analyzing system and performance requirements.</p>
Senior Staff Engineer 2	<p>Description-The Senior Staff Engineer 2 duties include: support of complex and/or technologically challenging tasks including the leadership in generating the Task Plan and Work Control Plan, providing guidance during the task implementation, conducting technology assessments and making recommendations for technology insertions, making trade study assessments, and recommendations, supporting CDR and PDR, and reviewing deliverables; providing technical consultation advice to Task Managers regarding design issues, development and test approaches, and test result assessments; leading teams established by the Program Manager to conduct investigations of programmatic or task-level problems and to make recommendations for recovery plans; and providing recommendations regarding Mission Assurance Program Implementation considerations.</p> <p>Education-A Bachelor of Science degree, or equivalent education and experience, in Engineering, Computer Science or mathematics from an accredited institution.</p> <p>Experience-Twenty (20) years of space/ground system design and development experience including at least ten (10) years of experience analyzing system and performance requirements.</p>

Senior Staff Engineer--Chief	<p>Description – The Chief Senior Staff Engineer is a world-renowned expert in his/her primary field of expertise. His/her duties include: support of complex and/or technologically challenging tasks including the leadership in generating the Task Plan and Work Control Plan, providing guidance during the task implementation, conducting technology assessments and making recommendations for technology insertions, making trade study assessments, and recommendations, supporting CDR and PDR, and reviewing deliverables, providing technical consultation advice to Task Managers regarding design issues, development and test approaches, and test result assessments, leading teams established by the Program Manager to conduct investigations of programmatic or task-level problems and to make recommendations for recovery plans; and providing recommendations regarding Mission Assurance Program Implementation considerations. Provides world-renowned expertise in space and/or ground hardware and/or software systems analysis, design, development, integration, test, validation, and orbital operations.</p> <p>Education—A Bachelor of Science degree or equivalent education and experience in Engineering, Computer Science or Mathematics from an accredited institution.</p> <p>Experience—Thirty (30) years of space/ground system design and development experience including at least fifteen (15) years of experience analyzing system and performance requirements. Individual should have an extensive knowledge in the development and/or implementation of space/ground hardware and/or software systems.</p>
Technical Typist	<p>Description—The Technical Typist types technical reports, memoranda, technical procedures, etc., maintains a file system of correspondence, log, reports, records, and administrative procedures applicable to project activities; assists in timekeeping reports; and performs other duties as assigned by a Group Manager or Task Manager.</p> <p>Education—Minimum of a high school diploma or GED.</p> <p>Experience—Secretarial experience, word processing experience and clerical experience in support of an engineering or technical aerospace organization.</p>
Technical Writer	<p>Description—The Technical Writer shall consult with technical staff to determine format, content, and organization of technical reports, presentations, and proposals. The Technical Writer shall write, edit, and produce summaries, introductions, backgrounds, and facilities sections of technical proposals. The Technical Writer shall verify that reports, presentations, and proposals are clearly written and responsive to customer and company requirements. The Technical Writer shall edit and rewrite technical documentation as necessary. The Technical Writer shall coordinate the entire production of assigned documentation and presentations.</p> <p>Education—An A.A. Degree, or equivalent education and experience, in an associated discipline.</p> <p>Experience—Minimum of 3 years of related experience or an equivalent combination of education and training that provides the required knowledge, skills, and abilities.</p>
Thermal Engineer 1	<p>Description—The Thermal Engineer performs design, analysis, development, integration, test, and operations of thermal control systems for space flight applications. Such systems may use active or passive means for ensuring that all elements of the space flight system are maintained within specified temperature limits throughout their operational lifetimes. The Thermal Engineer performs analyses using finite element models on a variety of computing platforms.</p> <p>Education—Bachelor of Science degree in mechanical engineering from an accredited institution.</p> <p>Experience—Five or more years of experience related to the duties described above.</p>
Thermal Engineer 2	<p>Description—The Thermal Engineer 2 performs design, analysis, development, integration, test, and operations of thermal control systems for space flight applications. Such systems may use active or passive means for ensuring that all elements of the space flight system are maintained within specified temperature limits throughout their operational lifetimes. The Thermal Engineer 2 performs analyses using finite element models on a variety of computing platforms.</p> <p>Education—Bachelor of Science degree in mechanical engineering from an accredited institution.</p> <p>Experience— Ten or more years of experience related to the duties described above.</p>