

Wallops Engineering Services Contract

Labor Categories Descriptions

Exhibit 2

Standard Labor Categories The offerors will develop their cost estimates using their estimating system. The offerors will map their labor categories to the labor category descriptions provided guidelines provided below. These categories are provided as guidance and are intended to broadly group proposed labor into a manageable number of categories. These guidelines may not address all the possible specific skills, or requirements to acquire an understanding of the complexities of the work required to successfully meet the WESC requirements. Accordingly, offerors must propose the resources required to successfully meet these requirements. Offerors are allowed to include additional professional labor categories that do not easily map into the categories provided in addition to categories for administrative and management type positions.

Contract Chief Engineer

Description: The Chief 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.

Education: A Bachelor of Science degree or equivalent education and experience in Engineering, Computer Science or Mathematics from an accredited institution.

Experience: The Contract Chief Engineer shall have 20 years of aerospace flight/ground system design and development experience including at least 10 years of experience analyzing system and performance requirements.

Technical Writer

Description: The Technical Writer shall create product instructions, reference and maintenance manuals, articles, project proposals, training materials, technical reports, catalogs, brochures, online documentation and help systems, Web pages, multimedia presentations, parts lists, and assembly instructions. Compose communication from product developers for users of the products. Users include scientists, engineers, and managers. The Technical Writer must write in a concise and easy-to-read manner for publications or in highly specialized language for experts. With the increased use of desktop publishing tools, responsibility is inclusive of the publication process involving graphics, layout, and document design. Analyze the needs of the target audience; study data and conduct in-depth interviews with subject matter experts to understand the product or procedure; produce or arrange for illustrations, charts, and photographs to be included in publications; and edit, standardize, or revise material prepared by other writers or personnel. Key Skills and Abilities: Communicating effectively with others in writing as indicated by the needs of the audience. Listening to what other people are saying and asking questions as appropriate. Finding ways to structure or classify multiple pieces of information. Inspecting and evaluating the quality of products. Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar. Strong written and verbal communications skills.

Education: The Technical Writer shall have a Bachelor's degree, or equivalent education and experience, in engineering, mathematics, or appropriate physical science from an accredited institution.

Experience: The Technical Writer shall have 3 years of experience.

Configuration Management Specialist Level 1 Jr.

Description: A Configuration Management Specialist shall establish, implement, and verify compliance to NASA configuration management policies, requirements, and procedures. A Configuration Management Specialist shall prepare configuration management documentation and establish and maintain all systems for configuration identification, control, verification, and accounting. Monitors and audits other program elements and contractors adherence to configuration management requirements and procedures.

Education: A Configuration Management Specialist shall have 2 years of college education from an accredited institution, or have equivalent education and experience.

Experience: A Configuration Management Specialist shall have 2 years of CM experience as described above.

Configuration Management Specialist Level 2 Mid

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.

Education: A Configuration Management Specialist shall have a Bachelor's degree from an accredited institution.

Experience: A Configuration Management Specialist shall have 5 years of CM experience as described above.

Aerospace Engineer Level 1 Jr.

Description: A Junior Aerospace Engineer must have a solid foundation in basic aerospace engineering principles. A Junior Aerospace Engineer must be familiar with the methods and specifications required for aerospace systems design, analysis, test, and fabrication.

Education: A Bachelor of Science degree, or equivalent education and experience, in Aerospace Engineering, Mechanical Engineering, Physics, Computer Science, or Mathematics from an accredited institution.

Experience: A Junior Aerospace Engineer shall have one year of aerospace experience working with automated design and development tools.

Aerospace Engineer Level 2 Mid

Description: An Aerospace Engineer must be well versed in basic aerospace engineering principles. An Aerospace Engineer must be familiar with automated design and development tools and simulations of aerospace systems. An Aerospace Engineer must be able to perform extensive analyses of aerospace systems resulting in performance/weight/cost trade-off options. Methods and specifications for aerospace systems design, test, fabrication and integration must be well understood.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Aerospace Engineering, Mechanical Engineering, Physics, Computer Science, or Mathematics from an accredited institution.

Experience: An Aerospace Engineer shall have 3 years of professional experience with 2 years of experience directly related to aerospace system applications as described above. This experience must include space systems assembly, integration and environmental qualification.

Aerospace Engineer Level 3 Sr.

Description: A Senior Aerospace Engineer requires expertise in a variety of disciplines associated with aerospace systems. A senior Aerospace Engineer must be capable of organizing and coordinating task level efforts including those tasks that require an interface with other engineering disciplines. The Sr. Aerospace must be familiar with automated design and development tools and simulations of aerospace systems, and be able to perform extensive analyses of aerospace systems resulting in performance/weight/cost trade-off options. Methods and specifications for aerospace systems design, test, and fabrication must be well understood.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Aerospace Engineering, Mechanical Engineering, Physics, Computer Science, or Mathematics from an accredited institution.

Experience: A Senior Aerospace Engineer shall have 10 years of professional experience with 5 years of experience providing senior-level guidance in support of engineering tasks in the aerospace environment. This experience must include extensive use of automated design and development tools and the manipulation of detailed simulations for aerospace systems, and experience with system trade-off options.

Electrical Engineer Level 1 Jr.

Description: A Junior Electrical Engineer must have a solid foundation in basic electrical engineering, digital, RF, power and ground system design principles. A Junior Electrical Engineer must be familiar with automated design and development tools as well as methods and specifications for electrical, digital, RF, power, and ground systems design, test, interface, debug, and fabrication.

Education: A Bachelor of Science degree, or equivalent education and experience, in Electrical Engineering, Physics, or Mathematics from an accredited institution.

Experience: A Junior Electrical Engineer shall have one year of experience in the fields described above.

Electrical Engineer Level 2 Mid

Description: A mid-level Electrical Engineer shall provide a working level expertise in electrical engineering, analog, and digital system design, analysis, and test. An electrical engineer shall perform ground systems requirement analysis, specifications, design, development, integration and testing, and post launch support for spacecraft command and control, telemetry data capture and processing, science data processing, and archiving/distribution of processed data to the users. An electrical engineer shall design, develop, test, and/or operate 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. An electrical Engineer shall conduct associated power system technology design, development, and evaluation activities leading to the design/component/system qualification for space flight. An Electrical Engineer shall provide technical guidance in interfacing with other engineering disciplines.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Electrical Engineering, or Physics from an accredited institution.

Experience: A mid-level Electrical Engineer shall have 4 years of professional experience. Two years of this experience must be in the aerospace field with automated design and development tools, as well as methods and specifications for electrical and digital systems design, test, interface, debug, and fabrication. An Electrical Engineer shall have knowledge of space borne RF systems, 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. An Electrical Engineer shall have the ability to design components and systems for spaceflight instruments and ground support equipment, and aerospace power system applications. An Electrical Engineer shall have knowledge of FMEA theory and analysis techniques.

Electrical Engineer Level 3 Sr.

Description: A Senior Electrical Engineer shall provide guidance and expertise in electrical engineering and digital system design, analysis, and test, space borne RF systems, microprocessor design, analog circuit design, microwave circuitry, radio frequency circuits, power systems and design of circuitry to interface with instrumentation sensors, motors, and actuators. A Senior Electrical Engineer should be

capable of organizing and coordinating task level efforts including those tasks that require an interface with other engineering disciplines.

Education: This position requires a Bachelor of Science degree in Electrical Engineering, Physics, or Mathematics from an accredited institution.

Experience: A Senior Electrical Engineer shall have 10 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, space borne RF systems, 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 is required.

Electrical Technician, Engineering Level 1 Jr.

Description: A Junior Electrical Engineer shall work on various types of electrical equipment and related devices by performing a combination of the following: installing, maintaining, repairing, overhauling, troubleshooting, modifying, construction and testing. The Junior Electrical Engineer shall operate and maintain electronic transmitting and receiving equipment, digital and analog computers, measuring and controlling equipment, microwave amplifiers and transmission lines, high voltage power supplies and keying circuits, indicators and displays, and antenna positioning systems. The Jr. Electrical Technician shall inspect, service, maintain, troubleshoot, and repair avionics systems that perform communications, navigation, and automatic flight-control functions, troubleshoot and repair batteries, AC and DC power generation, conversion and distribution systems. The Junior Electrical Engineer shall work with Instrumentation Tracking Radars. The Junior Electrical Engineer shall analyze RF and microwave performance for antenna/source/transmission line and RF systems. Investigate electronic system RF/microwave susceptibilities to frequency, modulation, and aspect angle. Troubleshoot, and evaluate data related to RF/microwave systems.

Education: The Junior Electrical Technician shall be a technical school graduate, or have equivalent education and experience.

Experience: The Junior Electrical Technician shall have 1 year of experience in aerospace flight/ground support equipment assembly and evaluation, radar, RF systems and an understanding of logic gates, transistors and High Power Radio Frequency sources.

Electrical Technician, Engineering Level 2 Mid

Description: The Mid-Level Electrical Engineer shall work on various types of electrical equipment and related devices by performing a combination of the following: installing, maintaining, repairing, overhauling, troubleshooting, modifying, construction and testing. The Mid-Level Electrical Engineer shall operate and maintain electronic transmitting and receiving equipment, digital and analog computers, measuring and controlling equipment, microwave amplifiers and transmission lines, high voltage power supplies and keying circuits, indicators and displays, and antenna positioning systems. The Mid-Level Electrical Technician shall inspect, service, maintain, troubleshoot, and repair avionics systems that perform communications, navigation, and automatic flight-control functions, troubleshoot and repair batteries, AC and DC power generation, conversion and distribution systems. The Mid-Level Electrical Engineer shall work with Instrumentation Tracking Radars. The Mid-Level Electrical Engineer shall analyze RF and microwave performance for antenna/source/transmission line and RF systems. Investigate electronic system RF/microwave susceptibilities to frequency, modulation, and aspect angle. Troubleshoot, and evaluate data related to RF/microwave systems.

Education: The Mid-Level Electrical Technician shall be a technical school graduate, or have equivalent education and experience.

Experience: The Mid-Level. Electrical Technician shall have 5 years of experience in aerospace flight/ground support equipment assembly and evaluation, radar, RF systems and an understanding of logic gates, transistors and High Power Radio Frequency sources.

Electrical Technician, Engineering Level 3 Sr.

Description: The Senior Electrical Engineer shall work on various types of electrical equipment and related devices by performing a combination of the following: installing, maintaining, repairing, overhauling, troubleshooting, modifying, construction and testing. The Senior Electrical Engineer shall operate and maintain electronic transmitting and receiving equipment, digital and analog computers, measuring and controlling equipment, microwave amplifiers and transmission lines, high voltage power supplies and keying circuits, indicators and displays, and antenna positioning systems. The Senior Electrical Technician shall inspect, service, maintain, troubleshoot, and repair avionics systems that perform communications, navigation, and automatic flight-control functions, troubleshoot and repair batteries, AC and DC power generation, conversion and distribution systems. The Senior Electrical Engineer shall work with Instrumentation Tracking Radars. The Senior Electrical Engineer shall analyze RF and microwave performance for antenna/source/transmission line and RF systems. Investigate electronic system RF/microwave susceptibilities to frequency, modulation, and aspect angle. Troubleshoot, and evaluate data related to RF/microwave systems.

Education: The Senior Electrical Technician shall be a technical school graduate, or have equivalent education and experience.

Experience: The Senior Electrical Technician shall have 10 years of experience in aerospace flight/ground support equipment assembly and evaluation, radar, RF systems and an understanding of logic gates, transistors and High Power Radio Frequency sources.

Electronic Technician Level 1 Jr.

Description: The Junior Electronic Technician shall recommend changes in circuitry or installation specifications to simplify assembly and maintenance. The Junior Electronic Technician 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 Junior Electronic Technician 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 Junior Electronic Technician shall analyze and interpret test data. The Junior Electronic Technician shall adjust, calibrate, align, and modify circuitry and components and record unit performance.

Education: The Junior Electronic Technician shall be a technical school graduate, or have equivalent education and experience.

Experience: The Junior Electronic Technician shall have 1 year of experience in aerospace flight/ground support equipment assembly and evaluation.

Electronic Technician Level 2 Mid

Description: The Mid-Level Electronic Technician shall recommend changes in circuitry or installation specifications to simplify assembly and maintenance. The Electrical/ Electronic Technician 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 Mid-Level Electronic Technician 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 Mid-Level Electronic Technician shall analyze and interpret test data. The Mid-Level Electronic Technician shall adjust, calibrate, align, and modify circuitry and components and record unit performance.

Education: The Mid-Level Electronic Technician shall be a technical school graduate, or have equivalent education and experience.

Experience: The Mid-Level Electronic Technician shall have 5 years of experience in aerospace flight/ground support equipment assembly and evaluation.

Electronic Technician Level 3 Sr.

Description: The Senior Electronic Technician shall recommend changes in circuitry or installation specifications to simplify assembly and maintenance. The Electrical/ Electronic Technician 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 Senior Electronic Technician 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 Senior Electronic Technician shall analyze and interpret test data. The Senior Electronic Technician shall adjust, calibrate, align, and modify circuitry and components and record unit performance.

Education: The Senior Electronic Technician shall be a technical school graduate, or have equivalent education and experience.

Experience: The Mid-Level Electronic Technician shall have 10 years of experience in aerospace flight/ground support equipment assembly and evaluation.

Thermal Engineer Level 1 Jr.

Description: A Junior Thermal Engineer must have a solid foundation in basic thermal engineering principles including thermal systems and modeling. A Junior Mechanical Engineer must be familiar with the methods and specifications required for thermal systems design, test, and fabrication.

Education: A Bachelor of Science degree, or equivalent education and experience, in Mechanical Engineering, Computer Science, or Mathematics from an accredited institution.

Experience: A Junior Thermal Engineer shall have one year of aerospace experience working with design and development tools.

Thermal Engineer Level 2 Mid

Description: A Thermal Engineer must be well versed in basic thermal engineering principles including passive and active thermal systems, and modeling methods. A Thermal Engineer must be familiar with automated design and development tools and have the ability to prepare and manipulate detailed simulations of thermal systems. A Thermal Engineer must be able to perform extensive analyses of thermal systems resulting in trade-off options. Methods and specifications for thermal systems design, test, fabrication and integration must be well understood.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Mechanical or Aerospace Engineering from an accredited institution.

Experience: A Thermal Engineer shall have 3 years of professional experience with 2 years of experience directly related to aerospace thermal applications as described above. This experience must include thermal systems design, assembly, integration and environmental qualification.

Thermal Engineer Level 3 Sr.

Description: A Senior Thermal Engineer requires significant expertise in thermal engineering principles including passive and active thermal systems, and modeling methods. A Senior Thermal Engineer must be familiar with automated design and development tools and have the ability to prepare and manipulate detailed simulations of thermal systems. A Senior Thermal Engineer must be able to perform extensive analyses of thermal systems resulting in trade-off options, and have significant experience interfacing

with other engineering disciplines. Methods and specifications for thermal systems design, test, fabrication and integration must be well understood.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Mechanical Engineering, Computer Science, or Mathematics from an accredited institution.

Experience: A Senior Thermal Engineer shall have 10 years of professional experience with 5 years of experience providing senior-level guidance in support of thermal 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 thermal systems resulting in trade-off options.

Thermal Technician Level 1 Jr.

Description: A Junior Thermal Technician performs mechanical fabrication and assembly of thermal hardware and prepares flight hardware for testing.

Education: A Junior Thermal Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Junior Thermal Technician shall have 1 year of related aerospace experience.

Thermal Technician Level 2 Mid

Description: A Thermal Technician performs mechanical fabrication and assembly of thermal hardware and prepares flight hardware for testing.

Education: A Thermal Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Thermal Technician shall have 5 years of fabrication and assembly experience of aerospace thermal systems.

Thermal Technician Level 3 Sr.

Description: A Senior Thermal Technician performs mechanical fabrication and assembly of test hardware and prepares flight hardware for testing. A Senior Thermal Technician provides thermal design expertise, and mentors junior personnel.

Education: A Senior Thermal Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Senior Thermal Technician shall have 10 years of fabrication and assembly experience of aerospace thermal systems.

Mechanical Engineer Level 1 Jr.

Description: A Junior Mechanical Engineer must have a solid foundation in basic mechanical engineering principles including structures, mechanisms, and modeling. A Junior Mechanical Engineer must be familiar with the methods and specifications required for mechanical systems design, test, and fabrication.

Education: A Bachelor of Science degree, or equivalent education and experience, in Mechanical Engineering, Computer Science, or Mathematics from an accredited institution.

Experience: A Junior Mechanical Engineer shall have one year of aerospace experience working with automated design and development tools.

Mechanical Engineer Level 2 Mid

Description: A Mid-Level Mechanical Engineer must be well versed in basic mechanical engineering principles including structures, mechanisms, and modeling methods such as finite element modeling. A Mechanical Engineer 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 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.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Mechanical or Aerospace Engineering from an accredited institution.

Experience: A Mechanical Engineer shall have 3 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.

Mechanical Engineer Level 3 Sr.

Description: A Senior Mechanical Engineer requires expertise in a variety of disciplines including structures, analyses, mechanisms, and modeling methods such as finite element modeling. A senior Mechanical Engineer must be capable of organizing and coordinating task level efforts including those tasks that require an interface with other engineering disciplines. The Sr. Mechanical Engineer 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.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Mechanical Engineering, Computer Science, or Mathematics from an accredited institution.

Experience: A Senior Mechanical Engineer shall have 10 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.

Designer/CAD Operator Level 1 Jr.

Description: The Designer/CAD Operator is responsible for the detailed design and documentation of concepts provided by engineers. The Designer/CAD Operator uses schematics and parts lists provided by engineering and generates mechanical fabrication or part drawings, 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 Designer/CAD Operator uses CAD/CAE tools to generate the detailed mechanical fabrication drawings required to implement aerospace fabrication and assembly of hardware and systems.

Education: A Junior CAD/Draftsman shall have 2 years of college education from an accredited institution or successful completion of an accredited technical trade school.

Experience: A Junior Designer/CAD Operator shall have 2 years of CAD/CAE experience in either: electronic packaging/printed circuit board layout, using ViewLogic, PADs, or similar systems; or mechanical design/drafting of part, structures and assemblies, using Pro-Engineer, Inventor, Solidworks or similar product.

Designer/CAD Operator Level 2 Mid

Description: The Designer/CAD Operator is responsible for the detailed design and documentation of concepts provided by engineers. The Designer/CAD Operator uses schematics and parts lists provided by engineering and generates mechanical fabrication or part drawings, 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 Designer/CAD Operator uses CAD/CAE tools to generate the detailed mechanical fabrication drawings required to implement aerospace fabrication and assembly of hardware and systems.

Education: A Mid-Level Designer/CAD Operator shall have 2 years of college education from an accredited institution or successful completion of an accredited technical trade school.

Experience: A Mid-Level Designer/CAD Operator shall have 5 years of CAD/CAE experience in either: electronic packaging/printed circuit board layout, using ViewLogic, PADs, or similar systems; or mechanical design/drafting of part, structures and assemblies, using Pro-Engineer, Inventor, Solidworks or similar product.

Designer/CAD Operator Level 3 Sr.

Description: The Designer/CAD Operator is responsible for the detailed design and documentation of concepts provided by engineers. The Designer/CAD Operator uses schematics and parts lists provided by engineering and generates mechanical fabrication or part drawings, 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 Designer/CAD Operator uses CAD/CAE tools to generate the detailed mechanical fabrication drawings required to implement aerospace fabrication and assembly of hardware and systems. A Senior Designer/CAD Operator provides mechanical design expertise, performs independent design tasks and mentors junior personnel.

Education: A Senior Designer/CAD Operator must have 2 years of college education from an accredited institution, successful completion of an accredited technical trade school.

Experience: A Senior Designer/CAD Operator shall have 10 years of CAD/CAE experience in either: electronic packaging/printed circuit board layout, using ViewLogic, PADs, or similar systems; or mechanical design/drafting of part, structures and assemblies, using Pro-Engineer, Inventor, Solidworks or similar product.

Mechanical Technician Engineering Level 1 Jr.

Description: A Junior Mechanical Technician performs mechanical fabrication and assembly of test hardware and prepares flight hardware for testing.

Education: A Junior Mechanical Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Junior Mechanical Technician shall have 1 year of related aerospace experience. Experience with simple machine shop tools is required.

Mechanical Technician Engineering Level 2 Mid

Description: A Mechanical Technician performs mechanical fabrication and assembly of test hardware and prepares flight hardware for testing.

Education: A Mechanical Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Mechanical Technician shall have 5 years of related aerospace experience. Experience with simple machine shop tools is required.

Mechanical Technician Engineering Level 3 Sr.

Description: A Senior Mechanical Technician performs mechanical fabrication and assembly of test hardware and prepares flight hardware for testing. A Senior Mechanical Technician provides mechanical design expertise, and mentors junior personnel.

Education: A Senior Mechanical Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Senior Mechanical Technician shall have 10 years of related aerospace experience. Experience with simple machine shop tools is required.

Machinist/Equipment Operator Level 1 Jr.

Description: A Junior Machinist/Equipment Operator shall produce replacement parts and new parts in making repairs of metal parts of mechanical equipment. Work involves most of the following: Interpreting written instructions and specifications; planning and laying out of work; using a variety of machinist's tools and precision measuring instruments; setting up and operating standard machine tools; shaping of metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals; selecting standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment.

Education: A Junior Machinist must have a High school/vocational diploma or GED certificate or completion of apprentice program.

Experience: The Junior Machinist shall have 2 years of general experience.

Machinist/Equipment Operator Level 2 Mid

Description: A Mid-Level Machinist/Equipment Operator shall produce replacement parts and new parts in making repairs of metal parts of mechanical equipment. Work involves most of the following: Interpreting written instructions and specifications; planning and laying out of work; using a variety of machinist's tools and precision measuring instruments; setting up and operating standard machine tools; shaping of metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals; selecting standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment.

Education: A Mid-Level Machinist must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Mid-level Machinist shall have 5 years of related aerospace experience.

GN&C Engineer Level 1 Jr.

Description: A Junior Guidance Navigation & Control (GN&C) Engineer must have a solid foundation in basic GN&C engineering principles. A Junior GN&C Engineer must be familiar with the methods and specifications required for systems design, analysis, test, and fabrication.

Education: A Bachelor of Science degree, or equivalent education and experience, in Aerospace Engineering, Mechanical Engineering, Physics, Computer Science, or Mathematics from an accredited institution.

Experience: A Junior Guidance Navigation & Control Engineer shall have one year of aerospace experience working with automated design and development tools.

GN&C Engineer Level 2 Mid

Description: A GN&C Engineer must be well versed in basic GN&C engineering principles. A GN&C Engineer must be familiar with automated design and development tools and simulations of GN&C systems. A GN&C Engineer must be able to perform extensive analyses of GN&C systems resulting in performance/weight/cost trade-off options. Methods and specifications for GN&C systems design, test, fabrication and integration must be well understood.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Aerospace Engineering, Mechanical Engineering, Physics, Computer Science, or Mathematics from an accredited institution.

Experience: A GN&C Engineer shall have 3 years of professional experience with 2 years of experience directly related to GN&C system applications as described above. This experience must include GN&C systems assembly, integration and environmental qualification.

GN&C Engineer Level 3 Sr.

Description: A Senior GN&C Engineer requires expertise in a variety of disciplines associated with aerospace systems. A senior GN&C Engineer must be capable of organizing and coordinating task level efforts including those tasks that require an interface with other engineering disciplines. The senior GN&C Engineer must be familiar with automated design and development tools and simulations of aerospace systems, and be able to perform extensive analyses of aerospace systems resulting in performance/weight/cost trade-off options. Methods and specifications for aerospace systems design, test, and fabrication must be well understood.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Aerospace Engineering, Mechanical Engineering, Physics, Computer Science, or Mathematics from an accredited institution.

Experience: A Senior GN&C Engineer shall have 10 years of professional experience with 5 years of experience providing senior-level guidance in support of GN&C engineering tasks in the aerospace environment. This experience must include extensive use of automated design and development tools and the manipulation of detailed simulations for GN&C systems, and experience with system trade-off options.

GN&C Technician Level 1 Jr.

Description: A Junior GN&C Technician performs mechanical and electrical fabrication and assembly of GN&C hardware and prepares flight hardware for testing.

Education: A Junior GN&C Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Junior GN&C Technician shall have 1 year of related aerospace experience.

GN&C Technician Level 2 Mid

Description: A GN&C Technician performs mechanical and electrical fabrication and assembly of GN&C hardware and prepares flight hardware for testing.

Education: A GN&C Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The GN&C Technician shall have 5 years of related aerospace experience. Experience with GN&C systems is required.

GN&C Technician Level 3 Sr.

Description: A Senior Mechanical Technician performs mechanical fabrication and assembly of GN&C hardware and prepares flight hardware for testing. A Senior Mechanical Technician provides GN&C design expertise, and mentors junior personnel.

Education: A Senior Mechanical Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Senior Mechanical Technician shall have 10 years of related aerospace experience. Experience with GN&C systems is required.

Flight Performance Engineer Level 1 Jr.

Description: A Junior Flight Performance Engineer must have a solid foundation in basic flight vehicle engineering principles. A Junior Flight Performance Engineer must be familiar with the methods and specifications required for flight vehicle performance and stability design, analysis, test, and fabrication.

Education: A Bachelor of Science degree, or equivalent education and experience, in Aerospace Engineering, Mechanical Engineering, Physics, Computer Science, or Mathematics from an accredited institution.

Experience: A Junior Flight Performance Engineer shall have one year of aerospace experience working with automated design and development tools.

Flight Performance Engineer Level 2 Mid

Description: A Flight Performance Engineer must be well versed in basic flight vehicle engineering principles. A Flight Performance Engineer must be familiar with analysis tools and simulations of aerospace flight vehicles. Methods and specifications required for flight vehicle performance and stability design, analysis, test, and fabrication must be well understood.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Aerospace Engineering, Mechanical Engineering, Physics, Computer Science, or Mathematics from an accredited institution.

Experience: A Flight Performance Engineer shall have 3 years of professional experience with 2 years of experience directly related to flight vehicle analyses as described above.

Flight Performance Engineer Level 3 Sr.

Description: A Senior Flight Performance Engineer must have significant expertise in flight vehicle engineering principles. A Flight Performance Engineer must be familiar with analysis tools and simulations of aerospace flight vehicles. Methods and specifications required for flight vehicle performance and stability design, analysis, test, and fabrication must be well understood. A senior Flight Performance Engineer must be capable of organizing and coordinating task level efforts including those tasks that require an interface and system trades with other engineering disciplines.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Aerospace Engineering, Mechanical Engineering, Physics, Computer Science, or Mathematics from an accredited institution.

Experience: A Senior Flight Performance Engineer shall have 10 years of professional experience with 5 years of experience providing senior-level guidance in support of flight performance tasks in the aerospace environment. This experience must include extensive use of design and analysis tools associated with flight vehicle performance analyses.

Launch Vehicle Engineer Level 1 Jr.

Description: A Junior Launch Vehicle Engineer must have a solid foundation in basic engineering principles associated with aerospace launch vehicles. A Junior Launch Vehicle Engineer must be familiar with the methods and specifications required for launch vehicle assembly and test, and with launch vehicle payload interfaces.

Education: A Bachelor of Science degree, or equivalent education and experience, in Mechanical Engineering, Computer Science, or Mathematics from an accredited institution.

Experience: A Junior Launch Vehicle Engineer shall have one year of aerospace experience working with automated design and development tools.

Launch Vehicle Engineer Level 2 Mid

Description: A Launch Vehicle Engineer must be well versed in basic engineering principles associated with aerospace launch vehicles. A Launch Vehicle Engineer must be familiar with the methods and specifications required for launch vehicle design, assembly and test, and with launch vehicle payload interfaces.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Mechanical Engineering, Aerospace Engineering, Computer Science, or Mathematics from an accredited institution.

Experience: A Launch Vehicle Engineer shall have 3 years of professional experience with 2 years of experience directly related to aerospace launch vehicles as described above.

Launch Vehicle Engineer Level 3 Sr.

Description: A Launch Vehicle Engineer requires expertise in a variety of disciplines associated with aerospace launch vehicles including launch vehicle system design, assembly and test, and with launch vehicle payload interfaces. A senior Launch Vehicle Engineer must be capable of organizing and coordinating task level efforts including those tasks that require an interface with other engineering disciplines.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Mechanical Engineering, Aerospace Engineering, Computer Science, or Mathematics from an accredited institution.

Experience: A Senior Launch Vehicle Engineer shall have 10 years of professional experience with 5 years of experience providing senior-level guidance in support of launch vehicle tasks in the aerospace environment as described above.

Launch Vehicle Technician Level 1 Jr.

Description: A Junior Launch Vehicle Technician performs assembly and test of launch vehicle hardware.

Education: A Junior Launch Vehicle Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Junior Launch Vehicle Technician shall have 1 year of related aerospace experience.

Launch Vehicle Technician Level 2 Mid

Description: A Launch Vehicle Technician performs fabrication, assembly and test of launch vehicle hardware.

Education: A Launch Vehicle Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Launch Vehicle Technician shall have 5 years of related aerospace experience. Experience with launch vehicle systems is required.

Launch Vehicle Technician Level 3 Sr.

Description: A Senior Launch Vehicle Technician performs fabrication, assembly and test of launch vehicle hardware.

Education: A Senior Launch Vehicle Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Senior Launch Vehicle Technician shall have 10 years of related aerospace experience. Experience with launch vehicle systems is required.

Environmental Test Technician Level 1 Jr.

Description: A Junior Environmental Test Technician performs mechanical or electrical environmental testing of flight hardware, such as vibration, electromagnetic interference and compatibility, or thermal vacuum testing.

Education: A Junior Environmental Test Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Junior Environmental Test Technician shall have 1 year of related aerospace experience.

Environmental Test Technician Level 2 Mid

Description: An Environmental Test Technician performs mechanical or electrical environmental testing of flight hardware, such as vibration, electromagnetic interference and compatibility, or thermal vacuum testing.

Education: An Environmental Test Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Environmental Test Technician shall have 5 years of related aerospace experience. Experience with environmental test systems is required.

Environmental Test Technician Level 3 Sr.

Description: A Senior Environmental Test Technician performs mechanical or electrical environmental testing of flight hardware, such as vibration, electromagnetic interference and compatibility, or thermal vacuum testing. A Senior Environmental Test Technician provides advice to engineers regarding test procedures and mentors junior personnel.

Education: A Senior Environmental Test Technician must have the equivalent of 2 years of college education from an accredited institution, or have successfully completed an accredited trade school, or have equivalent education and experience.

Experience: The Senior Environmental Test Technician shall have 10 years of related aerospace experience. Experience with environmental test systems is required.

Metrology Engineer

Description: A Metrology Engineer shall develop calibration test procedures and methods, and review and/or revise procedures in current use. He/she will assist in training calibration technicians to

implement them along with analyzing inspection, measuring, and test equipment to determine the calibration requirements. Determine the functions to be verified and their specifications, and the measurement standards required. The candidate will perform engineering and statistical analyses of the equipment and historical data to determine appropriate calibration intervals to meet reliability goals; analyze, evaluate, and document measurement uncertainty and laboratory calibration capability. He/she will be familiar with analyzing requirements for measurement standards and make recommendations for purchase. The Metrology Engineer will also be assisting in maintaining a laboratory quality management system.

Education: The Metrology Engineer shall have a Bachelor's degree in Mechanical Engineering, Electrical Engineering, Physics, Materials Science or related discipline.

Experience: The Metrology Engineer shall have five years' experience working in Metrology, test development or instrumentation.

Metrology Technician Level 1 Jr.

Description: The Metrology Technician demonstrates proficiency in calibration concepts, systems and documentation. Under limited supervision, installs, troubleshoots, repairs and performs calibration of complex optical, electrical, mechanical, chemical and electronic equipment and systems.. Service IMTE in accordance with GPR 8730.1 & 500-PG-8730.1.1, Calibration and Metrology to insure that inspection, measuring, and test equipment is properly calibrated, maintained, and identified. Institute configuration management to keep track of all manuals, standards and forms used to complete the assigned tasks. Communicates and assists in the implementation of corrective action for calibration non-conformances.

Education: A Junior Metrology Technician shall have a minimum of a High School diploma or equivalent.

Experience:

Metrology Technician Level 2 Mid

Description: The Mid-Level Metrology Technician demonstrates proficiency in calibration concepts, systems and documentation. Under limited supervision, installs, troubleshoots, repairs and performs calibration of complex optical, electrical, mechanical, chemical and electronic equipment and systems.. Service IMTE in accordance with GPR 8730.1 & 500-PG-8730.1.1, Calibration and Metrology to insure that inspection, measuring, and test equipment is properly calibrated, maintained, and identified. Institute configuration management to keep track of all manuals, standards and forms used to complete the assigned tasks. Communicates and assists in the implementation of corrective action for calibration non-conformances. Provides training in laboratory procedures and practices as necessary.

Education: The Mid-Level Metrology Technician shall have an Associate Degree in a relevant discipline or an equivalent combination of education and experience.

Experience: The Mid-Level Metrology Technician shall have 4 years' of related experience.

Metrology Technician Level 3 Sr

Description: The Senior Metrology Technician demonstrates proficiency in calibration concepts, systems and documentation. Under limited supervision, installs, troubleshoots, repairs and performs calibration of complex optical, electrical, mechanical, chemical and electronic equipment and systems.. Service IMTE in accordance with GPR 8730.1 & 500-PG-8730.1.1, Calibration and Metrology to insure that inspection, measuring, and test equipment is properly calibrated, maintained, and identified. Institute configuration management to keep track of all manuals, standards and forms used to complete the assigned tasks. Communicates and assists in the implementation of corrective action for calibration non-conformances. Provides training in laboratory procedures and practices as necessary. The Senior

Metrology Technician works closely with calibration management to develop safe laboratory procedures and practices.

Education: : The Mid-Level Metrology Technician shall have an Associate Degree in a relevant discipline or an equivalent combination of education and experience.

Experience: The Mid-Level Metrology Technician shall have 10 years' of related experience.

Quality Assurance Engineer Level 1 Jr.

Description: The Quality Assurance Engineer shall inspect and/or monitor aerospace flight, ground and support hardware for compliance with quality assurance guidelines. The Quality Assurance Engineer shall perform assurance activities covering design, fabrication, inspection, test, system safety, EEE parts program, material process control, reliability, quality assurance, and contamination control. The Quality Assurance Engineer shall provide required documentation.

Education: The Junior Quality Assurance Engineer shall have a Bachelor's degree, or equivalent education and experience, in engineering, mathematics, or appropriate physical science from an accredited institution.

Experience: The Junior Quality Assurance Engineer shall have 2 years of experience in performance assurance of spaceflight systems. The Quality Assurance Engineer shall have knowledge of quality assurance disciplines as defined in ANSI/ASQC Q9001 and the ability to implement the requirements with minimal supervision. The Quality Assurance Engineer shall have familiarity with the EEE parts program, configuration management, and quality assurance procedures.

Quality Assurance Engineer Level 2 Mid

Description: A Mid-Level Quality Assurance Engineer assures the quality of products. A Mid-Level Quality Assurance Engineer evaluates technical documents such as drawings and specifications for adequate quality requirements and in-process controls. Performs flight equipment acceptance reviews. Prepares test readiness review documentation and identifies hardware pre-test status. Approves work authorization documents and establishes mandatory inspection points. Provides inputs to milestone reviews and boards. Assists Quality Assurance Specialists. Evaluates discrepancy reports and concurs on Material Review Board decisions. Evaluates engineering changes and waivers for quality assurance impacts. Perform trend analysis of nonconformances and prepares reports. Evaluates inspection and test methods, tools, instruments, and processes for effectiveness. Abides by and enforces adherence to published safety procedures.

Education: The Mid-Level Quality Assurance Engineer shall have a Bachelor's degree, or equivalent education and experience, in engineering, mathematics, or appropriate physical science from an accredited institution.

Experience: The Mid-Level Quality Assurance Engineer shall have 5 years of experience. Prefer Certified Quality Engineer (CQE) designation.

Quality Assurance Inspector

Description: The quality Assurance inspector is familiar with a variety of accepted quality assurance concepts, practices, and procedures. Responsible for Quality Management System. Develops, implements, and manages Quality plans, Reliability and Maintainability plans, programs, and policies. Relies on experience and judgment to plan and accomplish goals. Assures appropriate inspection and resources in facilities and laboratories. Performs a variety of complicated tasks. Experience in Reliability, Maintainability, System Safety and Quality Assurance.

Education: Requires a bachelor's degree in appropriate field of engineering, mathematics or appropriate physical Science from an accredited institution.

Experience: The Quality Assurance Inspector shall have 5 years of experience.

Software Engineer Level 1 Jr.

Description: A Junior Software Engineer shall develop and/or modify application programs for operations ranging from routine to complex to highly specialized. A Jr. Software Engineer shall support the design, implementation, integration, test, debug, documentation, and maintenance of software programs. A Jr. Software Engineer shall support all levels and phases of application systems analysis and programming activities. Programming approach and methods maybe self-determined or part of a team collaboration involving Principal Investigators, other software developers, and software and systems engineers.

Education: A Junior Software Engineer shall have a Bachelor of Science degree, or equivalent education and experience, in Computer Science, Mathematics, or Engineering from an accredited institution.

Experience: A Junior Software Engineer shall have 1 year professional experience related to programming and software systems.

Software Engineer Level 2 Mid

Description: A Mid-Level Software Engineer shall develop and/or modify application programs for operations ranging from routine to complex to highly specialized. A Mid-Level Software Engineer shall design, implement, integrate, test, debug, document, and maintain software systems. A Mid-Level Software Engineer shall support all levels and phases of application systems analysis and programming activities. Programming approach and methods maybe self-determined or part of a team collaboration involving Principal Investigators, other software developers, and software and systems engineers.

Education: A Mid-Level Software Engineer shall have a Bachelor of Science degree, or equivalent education and experience, in Computer Science, Mathematics, or Engineering from an accredited institution.

Experience: A Mid-Level Software Engineer shall have 4 years professional experience with 3 years of directly related experience in programming and software systems. A Software Engineer must have experience providing software project development support including the generation of software specifications, analysis of software.

Software Engineer Level 3 Sr.

Description: A Senior Software Engineer shall develop and/or modify application programs for operations ranging from routine to complex to highly specialized. A Senior Software Engineer will provide software project management and development support including the identification of software requirements and specifications, analysis of software systems and alternative approaches and development of operations concepts and transition strategies. A Senior Software Engineer shall design, implement, integrate, test, debug, document, and maintain software systems. Programming approach and methods maybe self-determined or part of a team collaboration involving Principal Investigators, other software developers, and software and systems engineers.

Education: A Bachelor of Science degree in Computer Science, Mathematics, or Engineering from an accredited institution.

Experience: The Senior Software Engineer shall have 15 years professional experience with a minimum of 10 years of directly related experience in programming and software systems as well as integration and testing.

System Engineer Level 1 Jr.

Description: The Junior Systems Engineer ensures that space/ground systems requirements are achieved, analyzes system requirements, develops functional performance requirements, conducts trade studies, and allocates requirements to space and ground system elements. The Systems Engineer is

responsible for interface control during development and maintenance activities and for the integration and test planning necessary to verify (prelaunch) that system requirements have been realized. The Systems Engineer is responsible for balancing specialty engineering (safety, human factors, reliability, maintainability, quality assurance, logistics, and contamination) requirements such that system performance requirements are achieved.

Education: A Bachelor of Science degree, or equivalent education and experience, in Engineering, Computer Science, or Mathematics from an accredited institution.

Experience: The Junior Systems Engineer shall have 5 years of professional experience with 2 years of experience as an aerospace systems engineer performing several of the analysis, design and integration functions described above.

System Engineer Level 2 Mid

Description: A Systems Engineer is responsible for ensuring that systems requirements are achieved. The Systems Engineer is responsible for interface control during development and maintenance activities and for the integration and test planning necessary to verify that system requirements have been realized. Other duties include: a) Perform engineering for a system or subsystems using methodologies and techniques appropriate to the engineering discipline. Provide expert advice and support during the entire life cycle from the specification and analysis of requirements, through the design of the hardware or software, procurement, fabrication, assembly, to integration and test, and launch and operation of the spacecraft. Identify and solve technical problems during all phases. Develop technical reports and documentation. Support technical meetings and reviews. b) If functioning as a lead engineer, provide technical direction for the definition and development of a system or subsystem and coordinate all appropriate engineering activities. If functioning as a senior subject matter expert, perform engineering analysis, design, development, test or troubleshooting.

Education: A Bachelor of Science degree in Computer Science, Mathematics, or Engineering from an accredited institution.

Experience: A Systems Engineer shall have 10 years of spacecraft design and development experience including at least 7 years of experience analyzing system requirements, developing functional performance requirements, and allocating those requirements to the system elements.

System Engineer Level 3 Sr.

Description: A Senior Systems Engineer is responsible for ensuring that systems requirements are achieved. The Senior Systems Engineer is responsible for interface control during development and maintenance activities and for the integration and test planning necessary to verify that system requirements have been realized. Other duties include: a) Perform engineering for a system or subsystems using methodologies and techniques appropriate to the engineering discipline. Provide expert advice and support during the entire life cycle from the specification and analysis of requirements, through the design of the hardware or software, procurement, fabrication, assembly, to integration and test, and launch and operation of the spacecraft. Identify and solve technical problems during all phases. Develop technical reports and documentation. Support technical meetings and reviews. b) If functioning as a lead engineer, provide technical direction for the definition and development of a system or subsystem and coordinate all appropriate engineering activities. If functioning as a senior subject matter expert, perform engineering analysis, design, development, test or troubleshooting.

Education: A Senior Systems Engineer shall have a Bachelor of Science degree in Computer Science, Mathematics, or Engineering from an accredited institution.

Experience: A Senior Systems Engineer shall have 15 years of spacecraft design and development experience including at least 10 years of experience analyzing system requirements, developing functional performance requirements, and allocating those requirements to the system elements.

IT Specialist Level 1 Jr.

Description: A Junior IT Specialist supports the development and/or implementation of equipment or interconnected system(s) or subsystem(s) of equipment that is used in the automatic acquisition, storage, analysis, evaluation, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information.

Education: A Bachelor of Science degree in Computer Science, Mathematics, or Engineering from an accredited institution.

Experience: A Junior IT Specialist shall have 1 year of professional experience in programming and software systems.

IT Specialist Level 2 Mid

Description: A Mid-Level IT Specialist supports the development and/or implementation of equipment or interconnected system(s) or subsystem(s) of equipment that is used in the automatic acquisition, storage, analysis, evaluation, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Computer Science, Information Science, Mathematics, or Engineering from an accredited institution.

Experience: A Mid-Level IT Specialist shall have 4 years professional experience with 3 years of directly related experience in programming and software systems.

IT Specialist Level 3 Sr.

Description: A Senior IT Specialist supports the development and/or implementation of equipment or interconnected system(s) or subsystem(s) of equipment that is used in the automatic acquisition, storage, analysis, evaluation, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information.

Education: This position requires a Bachelor of Science degree, or equivalent education and experience, in Computer Science, Information Science, Mathematics, or Engineering from an accredited institution.

Experience: : A Senior IT Specialist shall have 15 years of professional experience with minimum of 10 years of directly related experience in theory, principles, and practices of information systems.

System Administrator Level 1 Jr.

Description: The Junior System Administrator is responsible for the installation, configuration, and maintenance of operating system workstations and servers, including web servers, in support of technical and programmatic processing requirements. Performs software installations and upgrades to operating systems and layered software packages. Schedules installations, upgrades, and maintenance in accordance with established IT policies and procedures. Ensures workstation and server security and data integrity by evaluating and implementing software and hardware solutions. Ensures data recoverability by regular system backups and database archive operations, including offsite storage and retrieval services. Conducts routine hardware and software audits of workstations and servers to ensure compliance with established standards, configuration guidelines, and IT security policies. Responds and resolves operational issues within established SLAs. Key Skills and Abilities: Knowledge of current operating systems software, workstations, and servers; and their operation, maintenance, and sustaining engineering. Familiar with latest IT security policies, threat practices and software, and software detection and remediation applications.

Education: A Junior System Administrator shall have a Bachelor of Science degree in Computer Science, Mathematics, or Engineering from an accredited institution.

Experience: A Junior System Administrator shall have 3 years of experience.

System Administrator Level 2 Mid

Description: A Mid-Level System Administrator is responsible for the installation, configuration, and maintenance of operating system workstations and servers, including web servers, in support of technical and programmatic processing requirements. Performs software installations and upgrades to operating systems and layered software packages. Schedules installations, upgrades, and maintenance in accordance with established IT policies and procedures. Ensures workstation and server security and data integrity by evaluating and implementing software and hardware solutions. Ensures data recoverability by regular system backups and database archive operations, including offsite storage and retrieval services. Conducts routine hardware and software audits of workstations and servers to ensure compliance with established standards, configuration guidelines, and IT security policies. Responds and resolves operational issues within established SLAs. **Key Skills and Abilities:** Knowledge of current operating systems software, workstations, and servers; and their operation, maintenance, and sustaining engineering. Familiar with latest IT security policies, threat practices and software, and software detection and remediation applications.

Education: A Mid-Level System Administrator shall have a Bachelor of Science degree in Computer Science, Mathematics, or Engineering from an accredited institution.

Experience: A Mid-Level System Administrator shall have 7 years of experience.

System Administrator Level 3 Sr.

Description: A Senior System Administrator is responsible for the installation, configuration, and maintenance of operating system workstations and servers, including web servers, in support of technical and programmatic processing requirements. Performs software installations and upgrades to operating systems and layered software packages. Schedules installations, upgrades, and maintenance in accordance with established IT policies and procedures. Ensures workstation and server security and data integrity by evaluating and implementing software and hardware solutions. Ensures data recoverability by regular system backups and database archive operations, including offsite storage and retrieval services. Conducts routine hardware and software audits of workstations and servers to ensure compliance with established standards, configuration guidelines, and IT security policies. Responds and resolves operational issues within established SLAs. **Key Skills and Abilities:** Knowledge of current operating systems software, workstations, and servers; and their operation, maintenance, and sustaining engineering. Familiar with latest IT security policies, threat practices and software, and software detection and remediation applications.

Education: A Senior System Administrator shall have a Bachelor of Science degree in Computer Science, Mathematics, or Engineering from an accredited institution.

Experience: A Senior System Administrator shall have 12 years of experience.

Network Security Specialist

Description: A Network Security Specialist is responsible for network operations; including installation, testing, servicing and analysis of network power, software, hardware, communications, cables and lines, modems and terminals. Monitors, controls, and optimizes the performance and status of network resources. Utilizes software and hardware diagnostic tools to identify and resolve operational problems and factors affecting network performance. Responds and resolves operational issues within established Service Level Agreements (SLAs). Supports large scale systems projects through vendor product evaluation and cost vs. performance studies. Performs on-site engineering when required. **Key Skills and Abilities:** Knowledge of LAN/MAN/WAN systems, network applications and their operation, maintenance, and sustaining engineering.

Education: A Network Security Specialist shall have a degree in the discipline area of Computer Science, Computer Engineer, Software Engineering, Engineering, or Management of Information Technology.

Experience: A Network Security Specialist shall have 3 years of experience in network administration and security.

Data Analyst Level 1 Jr.

Description: A Junior Data Analyst shall perform and/or assist in performing assignments requiring technical knowledge and skill in data analysis, laboratory support, automated data processing, and software engineering applications. The Data Analyst shall acquire, analyze, archive and display datasets for satellite operations control centers, spacecraft/instrument data processing and laboratory experiments. The Data Analyst shall collect and prepare test datasets for analysis of test results, support field work, and perform library and data base searches.

Education: A Junior Data Analyst shall have a Bachelor of Sciences degree, or equivalent education and experience, in discipline area relevant to the assignment.

Experience: A Junior Data Analyst position is an entry level position. The Data Analyst shall have hands on experience in science and/or engineering laboratory environment with computer-based systems.

Data Analyst Level 2 Mid

Description: The Mid-Level Data Analyst shall perform and/or assist in performing assignments requiring technical knowledge and skill in data analysis, laboratory support, automated data processing, and software engineering applications. The Data Analyst shall acquire, analyze, archive and display datasets for satellite operations control centers, spacecraft/instrument data processing and laboratory experiments. The Data Analyst shall collect and prepare test datasets for analysis of test results, support field work, and perform library and data base searches.

Education: The Mid-Level Data Analyst shall have a Bachelor of Sciences degree, or equivalent education and experience, in discipline area relevant to the assignment.

Experience: The Mid-Level Data Analyst shall have 5 years of experience in science and/or engineering laboratory environment with computer-based systems.

Data Analyst Level 3 Sr.

Description: The Senior Data Analyst shall perform and/or assist in performing assignments requiring technical knowledge and skill in data analysis, laboratory support, automated data processing, and software engineering applications. The Data Analyst shall acquire, analyze, archive and display datasets for satellite operations control centers, spacecraft/instrument data processing and laboratory experiments. The Data Analyst shall collect and prepare test datasets for analysis of test results, support field work, and perform library and data base searches.

Education: The Senior Data Analyst shall have a Bachelor of Sciences degree, or equivalent education and experience, in a discipline area relevant to the assignment.

Experience: The Senior Data Analyst shall have 7 years of experience in science and/or engineering laboratory environment with computer-based systems.