

EXHIBIT B

SYSTEMS ENGINEERING ADVANCED SERVICES (SEAS)

POSITION DESCRIPTIONS (PD)

RFP NNG15499015R

Position	Definition
Computer System Eng/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>
Detector/Instrument Sys Engineer	<p>Description–The Detector/Instrument Engineer performs activities associated with detector/instrument systems engineering. Performs detector/instrument engineering studies, analyses, and development in support of flight, airborne, and ground mechanical and electrical hardware including all scientific and support software required to operate and/or test the associated equipment and/or facility.</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–Ten years of experience with an interdisciplinary background in the development of aerospace hardware. A minimum of 3 years of flight detector/instrument hardware/software development experience is also required.</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 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>

<p>Flight Dynamics Engineer 3</p>	<p>Description-Support of multiple flight dynamics projects requiring detailed knowledge of navigation techniques and orbit design techniques. Technical lead on small tasks or subtasks.</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 related professional experience in navigation and/or mission design.</p>
<p>Flight Operations Systems Engineer 1</p>	<p>Description–The Flight Operations Systems Engineer 1 shall support the development, operations and maintenance of mission or science operations control centers for spacecraft/instrument command and control, telemetry data processing and analysis. The Flight Operations Systems Engineer 1 shall work with the flight and ground systems developers pre-launch to specify the operations requirements, integrate and test the flight and ground systems. The Flight Operations Systems Engineer 1 shall work with the operations and maintenance personnel post-launch to enhance the control centers, and assist in anomaly resolution.</p> <p>Education–A Bachelor of Science degree, or equivalent education and experience, in aerospace engineering.</p> <p>Experience–Five years of related professional experience in operations of mission or sciences operations control centers.</p>
<p>Flight Operations Systems Engineer 2</p>	<p>Description–The Flight Operations Systems Engineer 2 shall support the development, operations and maintenance of mission or science operations control centers for spacecraft/instrument command and control, telemetry data processing and analysis. The Flight Operations Systems Engineer 2 shall work with the flight and ground systems developers pre-launch to specify the operations requirements, integrate and test the flight and ground systems. The Flight Operations Systems Engineer 2 shall work with the operations and maintenance personnel post-launch to enhance the control centers, and assist in anomaly resolution.</p> <p>Education–A Bachelor of Science degree, or equivalent education and experience, in aerospace engineering.</p> <p>Experience–Ten years of related professional experience in operations of mission or sciences operations control centers.</p>
<p>GN&C Engineer 3</p>	<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>
<p>Integration & Test Eng</p>	<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>

<p>Mechanical Engineer 2</p>	<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>
<p>Mission Assurance and Safety Manager</p>	<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>
<p>Multimedia Specialist/Multimedia Production Specialist</p>	<p>Description—The Multimedia Specialist/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>
<p>Propulsion Engineer 2</p>	<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>

Reliability Engineer	<p>Description-The Reliability Engineer performs detailed reliability assessments of mission architectures to support design trades, redundancy studies, program reviews, etc. The reliability engineer makes use of fault analysis and risk management tools, in addition to historical reliability data, in working with engineering design teams to accomplish these assessments.</p> <p>Education-Bachelor's degree in engineering or physical sciences.</p> <p>Experience-5 or more years of experience in reliability analysis for aerospace flight programs.</p>
RF Engineer 4	<p>Description-The RF Engineer 4 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 4 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-Fifteen or more years of experience with space borne RF systems.</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>
Systems Engineer 1	<p>Description—The Systems Engineer 1 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 1 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 1 is responsible for balancing specialty engineering (safety, human factors, reliability, maintainability, quality assurance, logistics, and contamination) requirements such that system performance requirements are achieved.</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—Five 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.</p>
Systems Engineer 2	<p>Description—A Systems Engineer 2 is responsible for ensuring that systems requirements are achieved. The Systems Engineer 2 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.</p> <p>Education—A Bachelor of Science degree in Computer Science, Mathematics, or Engineering from an accredited institution.</p> <p>Experience—Ten 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.</p>
Systems Engineer 3	<p>Description—A Systems Engineer 3 is responsible for ensuring that systems requirements are achieved. The Systems Engineer 3 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.</p> <p>Education—A Bachelor of Science degree in Computer Science, Mathematics, or Engineering from an accredited institution.</p>

	<p>Experience–Fifteen 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.</p>
<p>Sr. Systems Engineer--Chief</p>	<p>Description–A Chief Systems Engineer is responsible for ensuring that systems requirements are achieved. The Chief 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.</p> <p>Education–A Bachelor of Science degree in Computer Science, Mathematics, or Engineering from an accredited institution.</p> <p>Experience–Twenty years of spacecraft design and development experience including at least 15 years of experience analyzing system requirements, developing functional performance requirements, and allocating those requirements to the system elements.</p>
<p>Technical Typist</p>	<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>
<p>Technical Writer</p>	<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>
<p>Thermal Engineer</p>	<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>