

Our Talented Staff Begins With You.





CTS seeks Subject Matter Experts with significant experience in the design, development and operation of missions, spacecraft and instruments relevant to NASA's goals. We help NASA evaluate proposals and review programs for investigations intended to help answer the big questions of Earth Science, Heliophysics, Planetary Science and Astrophysics.

As a CTS part-time employee or consultant you will participate as a Subject Matter Expert on review teams conducting in-depth technical, management and cost assessments of proposals and Phase A concept studies. Our work is performed remotely with travel occurring periodically during the assignment to bring the geographically distributed teams together to finalize results. An ideal candidate is willing and able to work part-time on an as-needed basis to support the tasks and has significant direct, handson technical or management responsibility in one or more of the following areas:

- · Flight Systems
- Mission Design and Operations, including Trajectory Analysis and Ground Systems
- Design, Development and Operation of Spacecraft and Spacecraft Subsystems
- · Systems Engineering for either Spacecraft or Instruments
- Space Communications and Ground Systems Development and Operations
- Space Based Instruments including Passive Remote Sensors in all Wavelengths, Active Sensors and Systems, and In-Situ Instruments for Particles and Fields or Direct Material Sampling
- NASA Mission Leadership
- · Scheduling and Planning

The EASSS3 contract provides support for proposal evaluations, assessments, and studies of programs and missions for NASA's Science Office for Mission Assessments (SOMA) at the Agency's Langley Research Center in Hampton, Virginia. The program provides support to NASA's Science Mission Directorate in evaluating new and innovative approaches for missions intended to help answer the big questions in Earth and Space science.

CTS Subject Matter Experts: Position Expertise Factors

INSTRUMENT DEVELOPMENT

- Demonstrated knowledge and proficiency in scientific and engineering instrumentation design, development, and operations.
- Broad understanding of capabilities and limitations of detectors, and scientific instrument systems in the space environment. Instrument evaluators need to understand the NASA Technology Readiness Level approach to maturing technologies and be cognizant of heritage instrument successes, failures, and lessons learned.
- · Strong understanding of the NASA organization and particularly how NASA science spaceflight missions, especially Principal Investigator led missions, and instrument development (individual and suites) is organized within the relevant program and the NASA Science Mission Directorate.

SYSTEMS ENGINEERING

- · Demonstrated knowledge in the areas of achieving mission and system functional, physical and operational requirements over the operational life of the program.
- · Experience performing requirements definition, decomposition, tracking and verification.
- · Experience in adhering to the NASA Systems Engineering processes and familiarity with the NASA Systems Engineering Handbook as well as interfacing with management and resource allocation.

FLIGHT SYSTEMS

- Demonstrated knowledge and proficiency in the various spacecraft bus subsystems.
- · Experience developing at least one subsystem for a spacecraft and worked with other teams on various other subsystems and understand the interaction between each subsystem.
- · Experience working with hardware via testing or onorbit operations to understand the nuances surrounding operation of hardware in a space environment, including redundancy, radiation and thermal effects.

MANAGEMENT

- · Demonstrated knowledge and proficiency in program and project management within the NASA culture.
- · Strong understanding the NASA organization and how NASA science spaceflight missions, especially Principal Investigator led missions, are organized within the relevant program and the NASA Science Mission Directorate.
- Possess a broad understanding of the capabilities of the U.S. aerospace industrial base as well as existing and planned flight and ground infrastructure capabilities.
- Demonstrated management experience in NASA space flight projects conceptualization, formulation, implementation and operations.
- Strong understanding of the relevant NASA Procedural Directives/Requirements and have demonstrated the use of standard tools and processes that apply to the execution of NASA spaceflight projects.

MISSION DESIGN AND OPERATIONS

- Demonstrated expertise in the design of missions, mission operations, and ground systems.
- · Experienced in flowing top-level mission requirements to orbital, ground, and operations requirements.
- · Ability to determine if the selected orbit or constellation supports the required science observations.
- Experienced in developing CONOPS and the ability to evaluate mission timelines including observing, data transmitting, typical scenarios and stressing cases to insure sufficient time is available for all required activities.
- Expert knowledge with the ground data system architecture including the facilities, systems, software and infrastructure.

OTHERS

- · Trajectory Analysis
- · Schedule Analysis
- · Telecom Analysis
- Cost
- · Ground Systems

CONTACT US

Corporate Office

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CORPORATE INFORMATION

Certified Small Business

Registered with Central Contractor Registry (CCR) Commercial and Government Entity (CAGE): 33HR3 Dun & Bradstreet: DUNS 169822033 ISO 9001/2015 Certified

FOLLOW US







North American Industry Classification (NAIC) Codes:

- 541330 Engineering Services
- 541519 Other Computer Related
- 541611 Administrative Management & **General Management Consulting** Services
- 541618 Other Management Consulting Services
- 541690 Other Scientific & Technical **Consulting Services**
- · 541990 All Other Professional, Scientific, & Technical Services