



Gas Chromatograph-Mass Spectrometer Specialist

The Laboratory Services and Support Operations (LASSO) contract operates and maintains a diverse set of laboratories, development shops, and test facilities to provide services for NASA's Kennedy Space Center, the country's premiere spaceport for government and commercial launch vehicles. AECOM is the lead on the LASSO contract and partners with the Southeastern Universities Research Association (SURA) and Bionetics.

Position Purpose and Scope: Primary responsibility will be to work with NASA/LASSO team to test a modified for space flight, commercial gas chromatograph and/or mass spectrometer system (GC-MS) that will quantify molecules of interest on the lunar surface. Applicant must have extensive knowledge of gas chromatography and/or mass spectrometry instrumentation and hands-on experience participating in a design team to customize the instrument hardware for particular applications. Integrated work with the interface between the GC and MS would be beneficial. Considered an emerging authority, who applies extensive technical expertise. Develops technical solutions to complex problems. Exercises considerable latitude in determining objectives and approaches to assignment. Senior level position provides guidance and direction to other lower-grade scientists and technicians, conducts or guides research and development research, performs analytic or scientific; generally functions in one or more of the following activities: conception, development, research, planning, and technical assessment of several separate projects.

Essential Responsibilities:

- Conduct analytic studies and/or scientific studies in particular scientific field, from hands on work to directing detailed work of team members.
- Develop and implement experimental matrices to verify system performance and requirements
- Perform conceptual, developmental, and planning functions for major programs.
- Develop mathematical models, formulations and equations, including data analysis and statistical evaluation of analytical data.
- Write investigative reports and memoranda.
- Perform customer liaison and may be responsible for a business element.
- Establish and maintain a filing system, databases and logs as needed for tracking program status and inventory.
- Coordinate and work closely with other scientific engineering, logistics, financial, and program management disciplines in conducting analytic and/or scientific studies.
- Independently identify, collect, and analyze technical information relevant to the quality and significance of a specific research and other scientific development issues.
- Conduct experimental investigations and comply with scientific documentation standards, systems specifications and experimental procedures.

- Prepare and present briefings about research findings.
- Direct customer interface for coordination, modification, technical assistance and implementation of programs.
- Provide technical inputs, ideas and concepts for proposals and business development.
- May provide technical management and leadership to a group of employees for a given project, contract or job with overall responsibility for cost, schedule technical and employee performance.
- Act in a staff or consulting/advisory to Company management based on recognition as an expert in the scientific community.
- Performs other position related duties and responsibilities as directed.

Other Responsibilities:

- **Safety** - LASSO enforces a safety culture whereby all employees have the responsibility for continuously developing and maintaining a safe work environment. As appropriate, each employee is responsible for completing all training requirements and fulfilling all self-aid/buddy aid responsibilities, participating in emergency response tasks and serving on safety committees and teams.
- **Quality** - Quality is the foundation for the management of our business and the keystone to our goal of customer satisfaction. It is our policy to consistently provide services that meet customer expectations. Accordingly, each employee must conform to the Quality Policy and carry out job activities in compliance with applicable Quality System documents and customer contracts. Each employee must read and understand his/her Quality Management and Customer Satisfaction responsibilities.
- **Procedure Compliance** - Each employee must read, understand and implement the general and specific operational, safety, quality and environmental requirements of all plans, procedures and policies pertaining to their job.

Preferred Qualifications: Previous experience within a team to design, develop and testing of a custom gas chromatograph and/or mass spectrometer system.

Minimum Requirements:

- For Scientist 5 Level: Bachelor's degree in chemistry, engineering, physics, mathematic or related scientific field. Fifteen (15) years of job-related experience, which can include academic research in a relevant field.
- For Subject Matter Expert Level: Master's degree in chemistry, engineering, physics, mathematic or related scientific field. Ten (10) years of job-related experience, which can include academic research in a relevant field.

Location: Kennedy Space Center, Florida

To Apply: Send a cover letter and resume to Charna Meth (SURA Space Science and Technology Program Manager; charna@sura.org).