Job Title: Aerospace Engineer I

Division: Technical Services

Location: NASA Glenn Research Center, Cleveland, Ohio

Job Description:

Exquadrum is currently seeking a Rocket Propulsion Engineer in support of the GEARS contract at NASA Glenn Research Center. The selected candidate will be responsible to provide propulsion system support and insight as needed to contribute to the design and development of the European Service Module (ESM) propulsion subsystem (PSS). They will provide support to ESM PSS insight and analysis tasks in chemical propulsion as well as provide propulsion and fluid system support to support analysis and/or insight of propellant transfer and delivery systems and components. Develop new/updated propulsion components including valves, tank, sensors, feed lines, pressure control components, and thermal control devices (heaters, insulation). Create test and analysis reports, write waivers and deviations, and assist in failure investigations.

Requirements:

A Bachelor's Degree in Aerospace or Mechanical Engineering, and zero to two years of experience in the engineering field. Position requires a background in chemical rocket propulsion engineering, as well as documentation, verification, and validation of rocket propulsion systems and components. A background in cryogenic and/or storable rocket engine systems and fluid systems background for propellant transfer and delivery system components. Proof of U.S. or US Permanent Residency is a requirement for this position. Must be able to complete a U.S. government background investigation.

Essential Functions:

- Provide propulsion system support and insight as needed to contribute to the design and development of the European Service Module (ESM) propulsion subsystem (PSS).
- Provide support to ESM PSS insight and analysis tasks in chemical propulsion.
- Provide propulsion and fluid system support to support analysis and/or insight of propellant transfer and delivery systems and components.

- Develop new/updated propulsion components including valves, tank, sensors, feed lines, pressure control components, and thermal control devices (heaters, insulation).
- Create test and analysis reports, write waivers and deviations, assist in failure investigations.

Other Desired Skills:

- Systems engineering background as related to rocket propulsion and space vehicles.
- Ability to work well in a team setting with propulsion engineers making diverse technical contributions.
- Excellent written and verbal communication skills for conveying technical material.
- Experience with MATLAB for propulsion system modeling and analysis.

Physical Demands:

Individuals may need to sit or stand as needed. May require walking primarily on a level surface for periodic periods through out the day. Reaching above shoulder heights, below the waist or lifting as required to file documents or store materials throughout the workday. Proper lifting techniques required.

Work Environment:

The performance of this position may require exposure to the manufacturing and laboratory areas, where under certain conditions require the use of personal equipment such as safety glasses with side shields, mandatory hearing protection, protective gloves, respirator, and lab coat.

Exquadrum is proud to be an equal opportunity employer

This job description is not designed to cover or contain a comprehensive listing of activities, duties, or responsibilities that are required of the employee.