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MER-Sr. Propulsion Avionics Software Engineer

City, State: **Huntsville, AL**
Requisition Number: **9717**
Date Posted: **6/2/2009**

Country: **United States**
Employment Type: **Full Time**

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Description

As a winner of the 2008 and 2009 Best Places to Work Award, Jacobs ESTS Group offers a partnership in which you can grow personally and professionally with the advantages of strong leadership, competitive compensation, and rewarding career paths. Come join the team whose work is destined to have a long-range effect on future generations!
Provide analytical and technical support for Ares I Vehicle chemical propulsion systems for Upper Stage Reaction Control and First Stage Roll Control Systems. Provide engineering support required for development and integration of the elements and components to meet the safety, technical, and program (cost and schedule) objectives of the overall systems. Coordinate among the appropriate MSFC engineering disciplines to conduct independent assessments necessary to effectively evaluate the Reaction Control System(s). Support the evaluation of systems program risks and provide recommendations for risk mitigation. Provide support to requirements definition and flow down. Provide assessments of designs, including impacts of changes to systems performance, identification of the technical risks associated with the design, and identification of any safety concerns regarding the design. Provide support for trade studies and issue resolution. Support the development of system, element, and component level test plans, and their execution. Provide analytical support for trade studies, design analyses, tests, flights, and evaluation of models.

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Education, Training & Experience

BS degree in Mechanical, Electrical or Aerospace Engineering or related field from an ABET accredited institution with a minimum of 14 years applicable experience is required. Flight console experience with small thrusters. Avionics/software knowledge specific to Reaction Control Systems. Ability to work to MIL-STD-1553 systems specific to both software and hardware design is also desired.

Physical Requirements

Requires sitting for extended periods of time in meetings with peers, management, and with our client at NASA facilities to discuss technical issues (10%). Also, requires sitting for extended periods of time at a desk to write reports and perform engineering tasks (80%). Requires ability to walk between floors and multiple buildings at NASA and Jacobs facilities (10%). Stairs or elevators can gain access.

Work Environment

Office environment. Requires ability to provide clear, concise, accurate and timely communication, both verbally and in writing (100%). Requires ability to interact professionally with co-workers, management, and client (100%). Requires travel in the domestic USA (<15%).

Equipment and Machines

Requires ability to operate a personal computer, a telephone, fax machine, copier, calculator, and other general office equipment (100%).

Attendance

Normal workday is from 7:30 a.m. to 4:30 p.m., Monday thru Friday. Minimal overtime may be required (10%) to meet schedule milestones and to support technical demands of the job. Regular attendance is a necessity and adequate arrangements for delegating duties during absences are required.

Other Essential Functions

Ability to work independently with minimal supervision, and to make rational decisions, and to exercise good judgment (100%). Grooming and dress must be appropriate for the position and must not impose a safety risk/hazard to the employee or others.

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