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MER-Senior Propulsion Components Engineer

City, State: **Huntsville, AL**
 Requisition Number: **9682**
 Date Posted: **7/10/2009**

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 engineering support to the Propulsion Components Division of the Propulsion Systems Department of MSFC for the design, development, and testing of the MPS of the Ares I Vehicle. Having a leading engineering role in the design, development, and testing of valves, valve actuators, lines (tubing assemblies), and ducts (piping and flex-joints) for liquid propellant rocket engine feed systems. Support conceptual design, fluid flow analysis, stress analysis, material selection, manufacturing technique selection, computer aided design modeling, and engineering drawing preparation. Additionally, development of requirements, specifications, test plans, test procedures, and technical reports for design and evaluation of fluid system components will be required. Perform conceptual design, detailed design, and documentation preparation. Perform development engineering analysis or preliminary stress analysis to ensure proper operation and adequate structural integrity of the component hardware. Support component level evaluations, analyze design specifications and drawings, and recommend changes to enable proper functioning of the hardware. Provide component test anomaly investigation and resolution. Participate in design reviews. Participate in conducting tests or reviewing data from tests to evaluate performance of valves, actuators, lines, ducts, miscellaneous fluid components, and fluid systems. Design test systems and equipment. Support safety and test readiness reviews, and other safety related tasks.

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Education, Training & Experience

BS degree in Mechanical or Aeronautical Engineering from an ABET accredited institution with a minimum of 8 years engineering experience. Experience with launch vehicle Main Propulsion Systems (MPS) design, development and/or testing is required. Experience with cryogenic fluid system components is required. Experience with inert gas, hydraulic and/or pneumatic systems is desired. Excellent planning and organizing skills are required. Excellent interpersonal and communication skills and strong team commitment and customer relations skills are required.

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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