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Mechanical Design Engineer

City, State: **Huntsville, AL**
 Requisition Number: **10024**
 Date Posted: **7/6/2009**

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!

Duties include participation in technical meetings; providing input to planned mass trade studies; generating preliminary design including aft thrust support; weight and layout inputs to involved managers and individuals as requested to support scheduled team outputs and materials for major milestones. Create and maintain reference design information for the ARES V 1st stage. Provide design insight for trade studies related to each element of the ARES V 1st stage. Provide CAD-generated mass properties to the SE&I group. Coordinate interface requirements with other ARES IPTs. Coordinate inputs with other IPTs to ensure operability, accessibility, etc. Create engineering product developments to include 1st stage optimization, 1st stage test plans, development plans, and sub assembly test plans.

We are an Equal Opportunity Employer M/F/D/V

Education, Training & Experience

BS degree in Mechanical, Electrical or Aerospace Engineering or related field from an ABET accredited institution with a minimum of 5 years applicable experience is required. Personnel should have intensive knowledge, understanding, and experience of structural design methods, material behavior and fabrication methods. Also, familiarity of launch vehicle systems (Structures, Separation, Propulsion, Pressurization, Cryogenic Propellant Behavior, Thermal Protection Performance, Debris Impact, etc.) is highly desired. Knowledge in structural analysis, vehicle trajectory, thermal protection systems, and thermal controls and materials is preferred.

Personnel involved in this project should have mechanical design experience in space structures, mechanisms, and/or fluid systems. CAD experience using a ProE CAD package is desirable. Some systems level skill regarding project management would also be helpful.

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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