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Aerospace Stress Engineer

City, State: **Huntsville, AL**
Requisition Number: **9849**
Date Posted: **6/11/2009**

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!

Independently plan, schedule and perform computations/analyses, prepare and make presentations, and document results in technical reports. Perform structural stress analyses in support of the design and structural verification of the ARES Instrument Unit(IU) for NASA Constellation Program. Analyze complex features of the IU structure, isolation systems, sub-component analysis, and apply principles and practices of structural analysis, or devising new approaches in problem solutions. Thoroughly review all results from assigned tasks and determine if outputs are complete, correct, integrated with project objectives, and adequately documented. Follow existing processes and procedures and recommend process improvements where appropriate. Participate in Process Improvement Teams and standing committees.

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

Education, Training & Experience

BS degree (MS preferred) in Mechanical, Aerospace, or Civil Engineering with a minimum of 5 to 8 years direct applicable work experience in the fields of aerospace structural stress analysis using finite element based methods, buckling methods, structural testing methodology, sub-structure modeling, and structural verification with an emphasis in space flight vehicle systems, or aerospace structures. Fluency with finite element modeling code "NASTRAN" and post-processor PATRAN, FEMAP, or equivalent is REQUIRED! Abaqus FEM Code knowledge, MathCAD, Matlab, MS Office.

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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