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Mechanical Engineer

City, State: **Huntsville, AL**
 Requisition Number: **9906**
 Date Posted: **6/19/2009**

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!

This position serves as a Senior Level Mechanical Test Engineer in the Mechanical Components Test Facility (MCTF) supporting the Systems Development, Integration, and Test Division within the Engineering Directorate's Space Systems Department, responsible for supporting the Ares Common Bulkhead (CB) structural development activities. Work function includes but is not limited to leak test of the CB Seal Plate, leak test of the CB proof test fixture, and leak test of the CB Manufacturing Demonstration Article (MDA). These activities will entail not only the testing of the articles but will include expert consultation and advice on how to perform the testing. Must be able to serve as an expert authority and technical adviser relative to test engineering encompassing pressure, leaks and seal disciplines in support of Ares. Requires experience with writing and implementing test procedures; vacuum and pressure leak and proof testing; mechanical fabrication; mechanical assembly; tubing fabrication; flare and compression fittings; computer operations and data acquisition systems. Ability to present MCTF products and services to customers in a clear and concise manner is essential. Maintain safety certifications pertinent to the Systems Development, Integration and Test Division. Resolve day to day problems with equipment and systems through application of advanced troubleshooting abilities. Work as part of a team of engineers and technicians to provide Leak and Pressure Test support for NASA while maintaining a strong consciousness about safety. We are an Equal Opportunity Employer M/F/D/V

Education, Training & Experience

BS degree in Mechanical Engineering or related field from an ABET accredited institution with a minimum of 8 to 12 years applicable experience is required. Knowledge of vacuum and pressure testing is essential. Must be intimately familiar with the operation of helium mass spectrometers and how to perform numerous proof and leak tests with the article under cryogenic cooling. Need to be familiar with cryogen handling, piping and flow-through systems. Familiarity with gas systems and gas distribution systems is a must. The ability to foster engineering guidance in the form of test procedures and verbal direction is fundamental. Use of a variety of hand tools, vacuum and pressure test equipment, and basic fabrication equipment (i.e.; band saw, drill press, taps, etc) is essential. Knowledge of mechanical fabrication and precision assembly is necessary.

Physical Requirements

Requires ability to work in test facility environment (65%). 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 (15%). Requires ability to walk between floors and multiple buildings at NASA and Jacobs facilities (10%). Stairs or elevators can gain access.

Work Environment

Test facility 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 (<5%).

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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