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MER -Thrust Vector Control Engineer

City, State: **Huntsville, AL**
Requisition Number: **7820**
Date Posted: **4/22/2009**

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

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Description

As a winner of the 2009 Best Places to Work Award, we offer 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!

Thrust Vector Control Engineer supporting Electro Hydrostatic Actuator (EHA) and Reaction Mass Actuator (RMA) design and development. Provide engineering support to the Valves, Actuators, and Ducts Branch of the Propulsion Systems Department of MSFC for the support of the design, development, analysis, review, testing and inspection of Thrust Vector Control (TVC) systems which includes power and control systems, fluid distribution systems, and actuators. Specific duties may include design, analysis, dynamic modeling, development, and test of various motor, battery, control system, and other electrical power technology elements of the TVC System. Develop requirements, specifications, test plans, test procedures, and technical reports as needed. Participate in formal project reviews. Carry out assigned duties and responsibilities in a manner consistent with MSFC safety policies.

Education, Training & Experience

BS degree in Physics, Mechanical, Electrical or Aerospace Engineering or related field from an ABET accredited institution with a minimum of 5 years applicable experience is required. Experience with Thrust Vector Control (TVC) systems design, development or testing is desired. Experience with brushless DC motors, power semiconductors, closed loop control, Lithium-ion batteries, Insulated Gate Bipolar Transistors, Active Cancellation of Mechanical Vibrations, Adaptive Feed Forward Control, Dynamic System Modeling, Thermal and Lithium-Ion Battery technology, and electric power technology not related to aerospace will be considered based on background, hardware knowledge and complexity of assignments and projects.

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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