



## **POSITION: Masters Fellowship Program MFP Mechanical Engineers- Job ID: 61883**

Sandia National Laboratories is one of the nation's premier science and engineering laboratories for national security and technology innovation. We are a world-class team of scientists, engineers, technologists, postdocs, and visiting researchers—all focused on cutting-edge technology, ranging from homeland defense, global security, biotechnology, and environmental preservation to nuclear defense, energy and combustion research, and computer security. To learn more, visit [www.sandia.gov/](http://www.sandia.gov/).

Sandia's Masters Fellowship Program (MFP) enables talented, diverse candidates to pursue master's degrees at top universities around the country by providing financial support for their graduate education. Students participating in the MFP will have their tuition and fees paid by Sandia and will receive an annual stipend to aid them with living expenses.

### **DEPARTMENT DESCRIPTION**

The candidate(s) selected for this MFP position will work in the Engineering and Design Intergration Center (2600). The Engineering and Design Integration Center (2600) is a multi-discipline, product-focused organization that provides engineering design, components, subsystems, integration, testing, and field support for nuclear weapons and other national security applications. Examples of these applications include the development of satellite and other space-flight payloads and testing for high consequence military programs. The Center is divided into three main competencies: Advanced Mechanical Systems, Sensor and Fuze Engineering, and Telemetry and Software Systems.

Mechanical engineers in this organization provide mechanical design and analysis support to on-going projects within the Center. Projects include the design of mechanical, electromechanical and optomechanical hardware which range from nuclear weapons components to satellite and aerospace components. They are involved in the design, analysis, procurement, assembly, testing and integration of this hardware. To perform these tasks, the Mechanical Engineers must have or develop skills in the areas of mechanical design, CAD modeling, design for manufacturing, design to withstand harsh environments, mechanical analysis (structural, thermal), final hardware assembly, and environmental testing. They work within project structures that require interactions with electrical, optical, quality, manufacturing and system engineers to perform design tasks.

### **JOB DESCRIPTION**

Sandia National Laboratories is seeking exceptional junior and senior undergraduate candidates interested in joining Sandia's Master's Fellowship Program (MFP) to pursue a master's degree in mechanical engineering. MFP is a limited recruiting program designed to help Sandia meet affirmative-action goals while also building our capabilities with exceptional employees who have earned advanced technical degrees and have demonstrated the attributes necessary to work at Sandia.

Selected candidate(s) must spend at least two months (maximum of six months) working at Sandia prior to entering a top graduate school as a full-time student pursuing a master's degree in mechanical engineering. The master's degree must be earned in three to four consecutive semesters, and students must complete the program with a minimum cumulative GPA of 3.5/4.0. Upon completing the master's degree, MFP participants will return to Sandia and join this hiring organization's technical team,

contributing to work that addresses and impacts science and technology challenges affecting the world.

Sandia provides employees with a comprehensive benefits package for this position, including medical, dental, vision and a generous 401(k) savings plan with company match. Our culture values work-life balance; we offer programs such as flexible work schedules with alternate Fridays off, on-site preventive health programs, and three weeks of vacation.

For more information about this opportunity, please visit: <http://www.sandia.gov/employment/special-prog/oyoc/>

### **ELIGIBILITY CRITERIA:**

- Recent graduate (e.g., December 2008) with an engineering or science bachelor's degree or a current undergraduate student who will receive an engineering or science bachelor's degree in 2009 or 2010.
- Minimum cumulative GPA of 3.2/4.0.
- Ability and desire to obtain a master's degree in computer science or computer engineering (the hiring manager and the MFP candidate will discuss how the candidate's planned program of study may be used to accomplish work relevant to Sandia's needs).
- Demonstrated ability to develop and present ideas and results in oral and written form.
- Ability to maintain a minimum cumulative GPA of 3.5 throughout the MFP program.
- A track record of leadership and involvement in extracurricular activities, including professional associations.
- Ability to obtain a U.S. Department of Energy security clearance for this position. To obtain a security clearance, U.S. citizenship is required.
- Candidates must also be self-directed, innovative, organized, and able to work in a large team environment. Selected candidates must possess well-developed interpersonal and communications skills. Demonstrated leadership skills and an interest in working in a multidisciplinary laboratory environment are also desired.

### **APPLICATION INSTRUCTIONS**

Apply online at [www.sandia.gov/employment/career-opp/](http://www.sandia.gov/employment/career-opp/). Click on Search Job Postings, and type the Job ID number (61883) into the Keywords box. Click on the Search button to access this job opening, and complete an online application.