R&D, Exploratory Sys Technologies
Mechanical Engineer (Mid-Career/Experienced)
Location: Livermore, CA
Full Time, Regular

What Your Job Will Be Like

We are seeking a creative and hard-working Engineer with broad mechanical expertise to join and grow with this multi-disciplinary team. You will work in state-of-the-art facilities to build install, maintain, and operate equipment while maintaining a safe laboratory environment. The work involves integration of complex power systems, novel heat exchange systems, impulse pressure load analysis, coupled with oversight of ongoing contract support activities. The teams work involves all aspects of design, all phases of construction, testing, and deployment with full documentation for customer use.

On any given day, you may be called on to:

• Lead the development of system components using advanced engineering skills and tools to design, develop, realize, and deploy them
• Engage with a team of engineers, designers, scientists, and technologists to resolve complex hardware realization issues
• Engage with physicists and scientists in the realization of complex hardware systems to perform advanced research
• Engage with government sponsor stakeholders to define requirements, propose solutions, and resolve challenges
• Present concepts, designs, test data, results, status to management, team members, and interagency stakeholders
• Use engineering principles to research, design, or develop structures, instruments, machines, processes, or systems; to construct or operate the same with cognizance of their design; or to forecast their behavior under specific operating conditions
• Modest travel as required to be responsible for contract activities, conduct testing, deployment, and recurring upgrades for new munition findings

Qualifications We Require

• Bachelor’s degree in Mechanical Engineering (or relevant STEM field) plus eight years’ experience; or Master’s degree in Mechanical Engineering (or relevant STEM field) plus four years’ experience
• Experience in producing designs, models, and product definition of complex objects
• Experience in engineering analysis such as structural, thermal, DFMEA
• Experience with engineering design tools for finite element analysis (FEA) or thermal analysis such as: ABAQUS, ANSYS, CTH
• Ability to obtain and maintain DOE Q-level security clearance

Qualifications We Desire

One or more of the following:

• Experience creating mechanical product design definition to include 3D solid models and mechanical drawings
• Experience in electromechanical system design and assembly including microprocessor controls integration
• Experience with systems engineering to include configuration management, generating and validating requirements

Apply online at:
sandia.gov/careers
Job #: 683851

About Sandia:

Sandia National Laboratories is the nation’s premier science and engineering lab for national security and technology innovation, with teams of specialists focused on cutting-edge work in a broad array of areas. Some of the main reasons we love our jobs:

• Challenging work with amazing impact that contributes to security, peace, and freedom worldwide
• Extraordinary co-workers
• Some of the best tools, equipment, and research facilities in the world
• Career advancement and enrichment opportunities
• Flexible work arrangements for many positions include 9/80 (work 80 hours every two weeks, with every other Friday off) and 4/10 (work 4 ten-hour days each week) compressed workweeks, part-time work, and telecommuting (a mix of onsite work and working from home)
• Generous vacations, strong medical and other benefits, competitive 401k, learning opportunities, relocation assistance and amenities aimed at creating a solid work/life balance*

World-changing technologies.
Life-changing careers.

*These benefits vary by job classification.

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About Our Team

The Exploratory Systems Technology (8636) is accountable to partners for all aspects of Design, Build, Test, and Deployment of multiple advanced systems and system components across a broad spectrum of mission portfolio. Our work supports national Nuclear Deterrence efforts, Global Security, Treaty Compliance Efforts, and internal National Security. Center 8600 is Sandia’s primary organization for CBRN (Chemical Biological Radiological and Nuclear) technologies. Additionally, the department supports other Sandia groups and external partners with engineering services by performing analysis, testing, and design. We provide the technical expertise needed to deliver and support robust, cost-effective pulsed power systems services. We maintain the required mechanical engineering and design staff needed to design, deliver, and support state-of-the-art multi-system integrated solutions.

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, or veteran status and any other protected class under state or federal law.