

Job Title: R&D Systems Engineer - Electrical/Mechanical (Experienced)

Job ID: 653411

Location: Livermore, CA

What Your Job Will Be Like

We are seeking a Systems Engineer with an electrical engineering or a mechanical engineering background to lead engineering systems development activities for future Sandia programs and interface with internal and external customers. This person can be located at either our Livermore, CA or Albuquerque, NM sites.

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

- Plan, conduct, and execute Sandia's science and engineering programs within the spectrum of fundamental research, development, or demonstration.
- Create and apply scientific theories and laws and engineering methods used within scientific and engineering disciplines to develop or demonstrate new designs, concepts, materials, machines, products, processes, or systems.
- Synthesize anticipated future deterrence needs to define weapon system and subsystem requirements.
- Define and develop advanced and exploratory weapon systems architectures.
- Conduct or direct system-level design architecture analysis that combines a number of component parts or subsystems into a complete functional system.
- Define future technology development needs for Sandia.
- Develop advanced engineering demonstrator and/or test units, conduct testing, and analyze test results.

Qualifications We Require

- Master's degree in Electrical Engineering, Mechanical Engineering, or relevant technical discipline with at least two years relevant experience; or Ph.D. in these disciplines.
- Ability to obtain and maintain a U.S. DOE Q security clearance.

Qualifications We Desire

- Evidence of excellent communication skills, including strong writing, interpersonal, and formal briefing capabilities.
- Evidence of the ability to contribute within team environments and in conjunction with diverse collaborators.
- Evidence of independent initiative in the development of new ideas or programs.
- Evidence of the ability to conduct and lead engineering work in a systems context.
- Background and understanding of nuclear weapons across the lifecycle is desired, but training in the organization to fill experience gaps is acceptable.

About Our Team

The Advanced and Exploratory Systems Department has responsibility to provide system-level leadership for advanced and exploratory activities across the Nuclear Security Enterprise. The department is currently pursuing numerous laboratory-wide activities to enable a more Agile, Affordable, and Assured Nuclear Weapons Stockpile. These activities include, but are not limited to, developing weapon system architectural designs, exploring system integration options for future missile systems, developing physical and function demonstration test units for future systems as part of demonstrator programs, providing system context and future technologies needs to internal laboratory-wide research programs, and partnering with the broader Sandia community. In addition, the department is responsible for establishing and building internal and external partnerships with NNSA Federal Program Managers, Air Force program managers, Sandia nuclear weapons component organizations, the Sandia science & technology community, system analysis and strategic partnering groups, the Kansas City Plant National Security Campus (NSC), and many others. With its sister group in Sandia/NM, this department is responsible for the leading the overall direction of Sandia advanced and exploratory engineering efforts as it pertains to our future nuclear weapon deterrence.

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 schedules, 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. Learn more about Sandia at:

<http://www.sandia.gov>

*These benefits vary by job classification.

Security Clearance

Position requires a Department of Energy (DOE) granted Q-level security clearance.

Sandia is required by DOE directive to conduct a pre-employment background review that includes personal reference checks, law enforcement record and credit checks, and employment and education verifications. Applicants for employment must be able to obtain and maintain a DOE Q-level security clearance, which requires U.S. citizenship.

Applicants offered employment with Sandia are subject to a federal background investigation to meet the requirements for access to classified information or matter if the duties of the position require a DOE security clearance. Substance abuse or illegal drug use, falsification of information, criminal activity, serious misconduct or other indicators of untrustworthiness can cause a clearance to be denied or terminated by the DOE, rendering the inability to perform the duties assigned and resulting in termination of employment.

EEO

Equal opportunity employer/Disability/Vet/GLBT

To Apply:

https://cg.sandia.gov/psp/applicant/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=HRS_APP_JBPST&Action=U&FOCUS=Applicant&SiteId=1&JobOpeningId=653411&PostingSeq=1