

Job Title: R&D Systems Research Analyst (Experienced)

Job ID: 653575

Location: Livermore, CA

What Your Job Will Be Like

We are seeking R&D Systems Research Analysts to join our multidisciplinary team of systems analysts, whose studies provide decision insight to customers in ill-defined or complex multi-domain problem areas. These domain areas include radiological and nuclear security, cybersecurity, chemical and biological security, homeland security, transportation energy, and nuclear weapons. You will apply critical thinking using a diversity of technical skills and expertise, and effectively communicate options, insights, and trade-offs to customers in a concise way that enables action. Provide technical depth and insight in particular to analysis problems in the nuclear and radiological security domain, to enable connectivity between operational organizations, and Sandia's broad and deep research and development teams. Formally define problems, formulate requirements, develop technical approaches, gather information from a variety of sources, and apply analytical methods to design and objectively evaluate proposed solutions. Familiarity with relevant analysis tools and techniques would be beneficial. Access to knowledge and data in this arena will require a security clearance. Travel is expected to meet with sponsors and to support successful execution of programs.

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

- Conduct innovative research;
- Lead projects and also contribute effectively on research teams;
- Work with customers to understand needs and propose solutions; and
- Present results as appropriate at open or classified meetings and conferences.

Qualifications We Require

- Master's in science, technology, engineering, math, economics, or public policy, with at least five years' relevant experience; or Ph.D. in these disciplines with at least three years' relevant experience; or bachelor's degree in these disciplines with at least nine years' relevant experience.
- Evidence of relevant research expertise in the form of technical publications, presentations, software, and/or knowledge of applications
- Ability to obtain and maintain a Department of Energy (DOE)-granted Q-level security clearance.

Qualifications We Desire

- Strong record of academic performance.
- Expertise in one or more of the following: design and analysis of complex systems, decision analysis, risk analysis, international security and policy, expert elicitation, facilitation, communications with non-technical audiences, data analytics, machine learning, and operational or policy guidance development.
- Experience working in the radiological and nuclear security domain.
- Evidence of professional service and leadership to the community, such as service on program committees, workshop organization, and/or editorial or review work.
- A proven ability to frame and tackle complex and/or ill-defined multidisciplinary problems.
- Background in solving practical problems in science and engineering that involve encounters with real-world data, especially large data sets.

About Our Team

Department 8110 is part of a five department System Analysis and Engineering Group (8110) in the Homeland Security and Defense Systems Center. Work in 8110 is focused on a broad range of topics in national security including nuclear weapons, homeland security, and transportation energy. Nuclear weapons work includes stockpile studies, surety systems analysis, cost estimation, and future stockpile planning. Homeland security work includes analyses, simulations, and prototype technology deployments which address defense against biological, nuclear, chemical, and radiological terrorism; planning and training for disaster management; and emerging cybersecurity threats. Transportation energy analyses enable technology, policy and regulatory decisions focused on vehicle fleet composition and fuel alternatives. In these complex problem areas, staff in 8100 combine technical depth, cross-domain breadth, and multiple analytic disciplines to deliver products that inform decision makers and facilitate evaluation of options and tradeoffs.

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*

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*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=653575&PostingSeq=1