



POSITION: Radiation Data Analyst

JOB ID: 62656

MANAGER: John Goldsmith

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DEPARTMENT DESCRIPTION

The Radiation and Nuclear Detection Materials and Analysis department focuses largely, but not exclusively, on the development of advanced materials for detecting radiation and nuclear materials and on analyses associated with related endeavors. Current areas of emphasis include developing advanced inorganic scintillators, researching active-interrogation approaches for detecting special nuclear material, and analyzing data for the Department of Homeland Security's (DHS's) Secondary Reachback Program.

JOB DESCRIPTION

We are seeking a candidate who will work closely with Sandia staff to develop analysis codes and/or Web-based application software to query, analyze, and display large data sets in support of the DHS's Domestic Nuclear Detection Office (DNDO). The successful candidate may perform detailed analyses of radiation detector field data, identify trends and anomalies in the data, perform short-response studies, and present key results. This person will work closely with other scientists, engineers, systems analysts, and computer software engineers to accomplish project goals.

QUALIFICATIONS

A masters or PhD degree in physics, nuclear engineering, nuclear chemistry, computer science, or a related field is required for this position, as is a strong background in analysis software development. Other required qualifications include (1) familiarity with radiation detection systems and principles; (2) the ability to code in C++; (3) effective interpersonal interaction, presentation, and written-communication skills; and (4) the ability to function well as part of a multidisciplinary team. Candidates must be demonstrated self-starters who are committed to supporting project team goals and who desire to work with DHS/DNDO programs

Desired qualifications include (1) familiarity with the data analysis framework ROOT, Apache, and the radiation transport code MCNP; (2) familiarity with additional coding languages, including SQL, Python, PHP, and Javascript; and (3) an interest in learning new skills. Candidates who are comfortable working in a UNIX environment and writing UNIX scripts are also desired.

Candidate must be able to obtain a U.S. Department of Energy security clearance for this position. To obtain a security clearance, U.S. citizenship is required.

Apply at: <http://ca.sandia.gov/casite/employment/>. Click on Browse current job openings, and type the Job ID number **62656** into the Keywords box. Click on the Search button to access this job opening, and complete an online application.

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Sandia National Laboratories is an Equal Opportunity Employer M/F/D/V. If this position requires a security clearance granted by the U.S. Department of Energy (DOE), U.S. citizenship and employee eligibility for clearance processing will be required at the time of hire. If you hold dual citizenship and accept a job offer for a position that requires a DOE-granted security clearance, you may be asked by DOE to renounce your foreign citizenship and retain only your U.S. citizenship.