**Department Description:**
The mission of the Industrial Hygiene and Radiation Protection Laboratories Department is to provide our customers with high-quality calibration and maintenance of instrumentation; internal, external, and criticality dosimetry; and chemical and radiological sample analysis that are compliant with applicable standards and accreditations. The labs provide services for a variety of SNL programs and projects, as well as agencies external to SNL.

The Radiation Protection Sample Diagnostics (RPSD) program has a position available for a full-time laboratory technician(s). The duties of this position include, development and implementation of procedures, development of software and hardware configurations for laboratory equipment (e.g. inductively coupled plasma mass spectrometer, gamma spectroscopy, alpha spectroscopy, liquid scintillation counter, and gas proportional counting), developing and validating analytical methods, training staff on analytical equipment and procedures, sample management and sample analysis, defining waste profile streams for radiological, chemical, and radiochemical laboratory waste. Additional duties of this position include assisting the RPSD Project Leader with Department of Energy Laboratory Accreditation program, accreditation and participation in federal proficiency programs such as the Food Emergency Response Network program for the Food and Drug Administration and the Mixed Analyte Proficiency Evaluation Program as well as interacting with external agencies. Additional duties of this position include assisting the RPSD Project Leader with the development of the Department of Energy (DOE) Consequence Management Federal Radiological Monitoring and Assessment Center Laboratory Analysis program as well as accreditations and participation in federal proficiency programs. This development includes defining, developing, and implementing the laboratory analysis processes and methods for first responders, developing procedures, providing training, providing technical assessments of problems, coordinating activities, conducting emergency preparedness training and exercises to evaluate the effectiveness of procedures, and coordinating with multiple federal entities.

**Requirements:**
- Able to travel up to 8 trips annually
- Able to prepare and present material at national conferences
- BS in Nuclear Engineering
- US Citizenship
- Direct hands on laboratory and radiological experience including sample preparation and analysis
- Demonstrated experience operating laboratory instrumentation such as inductively coupled plasma mass spectrometry, gamma spectrometers, alpha spectrometers, liquid scintillation counters, and gas proportional counters
- Demonstrated experience developing analytical equipment hardware configuration, analytical equipment software development and upgrades, equipment calibration and routine maintenance
- Experience with repair and trouble shooting of laboratory equipment hardware
- Demonstrated self motivation, leadership, and strong problem solving abilities
- Excellent writing and documentation skills are needed to produce accurate reports, quality assurance records, and written procedures
- Able to successfully function in a team environment
- Experience in the use of PC compatible computers, Windows OS, and computer software such as database application programs and Microsoft
- Office suite
- Able to obtain and maintain DOE L clearance
- Able to obtain and maintain DOE Radiological Worker II certification

Desired:

- Demonstrated programming experience with C++, C, C-Sharp, Visual Basic, REXX, and Java programming languages
- Extensive experience with alpha spectroscopy interpretation, program development, and in-situ gamma spectroscopy analysis and modeling
- Experience with Varian Micro Gas Chromatograph, Dionex Ion Chromatograph, Leeman Labs ICP, Perkin Elmer ICP-MS
- Experience in QA, conduct of operations, and work controls in a highly regulated environment