



Available Positions – PhD

Position Number	Deg	Discipline	Position Description
MO-08-56	PhD	Materials Science / Engineering, Materials Chemistry, Nuclear Materials	Perform research and development in materials synthesis and materials performance characterization, including nanostructures. Develop and conduct laboratory experiments to evaluate materials performance under various environmental conditions.
MO-SR-07-028-01	PhD	Statistics / Mathematics	Develop and execute designed experiments, sampling plans and new statistical methods in radioactive waste vitrification, nuclear nonproliferation, multivariate dimensionality reduction analysis, large scale data set analysis.
PR-EX-2008-00101	PhD	Chemistry / Physics / Radiochemistry	Perform method development and research in radiochemical measurements including non-destructive assay. Perform research for detection of radioactive and neutron signatures.
SRNS-08-100	PhD	Science or Engineering	Perform performance assessments to support safe radioactive waste disposition activities to include designing, operating, monitoring and closing waste disposal systems. At least 12 years relevant experience with performance / risk assessments and evaluation of field implementation practices for radioactive waste.
SRNS-08-81	PhD	Chemistry / Physics / Radiochemistry	Perform research on new compounds for detection of radioactive and neutron signatures in support of safeguard and security initiatives.
SRNS-08-82	PhD	Chemical / Mechanical / Nuclear Engineering	Perform heat transfer and computational fluid dynamics modeling in support of liquid radioactive waste tank mixing and radioactive materials storage and disposition. Graduate level experience in performing numerical computations in the thermal sciences required.

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SRNS-08-83	PhD	Chemical / Mechanical / Nuclear Engineering	Perform heat transfer and computational fluid dynamics modeling in support of the radioactive materials packaging and energy security programs. Graduate level experience in performing numerical computations in the thermal sciences required.
SRNS-08-84	PhD	Materials Science / Ceramics / Materials Chemistry	Conduct research and development in the areas of materials performance evaluation, characterization and service life assessment. Develop creative solutions and programs and conduct laboratory experiments leading to effective material selection and utilization.
SRNS-08-85	PhD	Science or Engineering	Develop and implement research programs in the nondestructive examination field with emphasis on electromagnetic, ultrasonic, thermal imaging and/or microwave methodologies as part of a comprehensive program to evaluate and validate nuclear materials and systems.
SRNS-08-86	PhD	Materials Science / Engineering / Materials Chemistry / Nuclear Materials	Perform research and development in materials analysis / development in support of the nuclear fuel cycle including plutonium disposition, nuclear materials and systems surveillance and spent fuel technology development.
SRNS-08-87	PhD	Materials Science / Engineering / Materials Chemistry / Nuclear Materials	Conduct research and development experimental programs in the areas of mechanical testing, characterization, and analysis in hydrogen and tritium technology areas. At least 2 years relevant experience in catalysis materials development required.
SRNS-09-123	PhD	Physical / Social Science	Perform intelligence analysis on foreign nuclear programs relative to delivery systems and international proliferation. At least 4 years relevant experience in intelligence / national security.