

Opportunity Title: International Safeguards Postdoctoral Research Opportunity

Opportunity Reference Code: SRNL-16-01-NSD

Organization Savannah River National Laboratory (SRNL)

Reference Code SRNL-16-01-NSD

How to Apply **How to apply:** A complete application consists of:

- An application
- Official transcript(s)
- A current resume/CV
- Minimum of 2 references

Interested candidates should apply through ORAU's Zintellect web site (<http://www.zintellect.com/Home/Applicant>). The job reference code is SRNL-16-01-NSD.

U.S. Citizenship is required.

If you have questions, send an email to ORNLedu@ornl.gov. Please include the reference code for this opportunity in your email.

Description The Savannah River National Laboratory National Security Directorate invites applications for a Postdoctoral Research Associate (PRA) who will advance technologies and concepts relating to the next generation of safeguards initiatives. The PRA will conceive, model, design, and test solutions to international safeguards technology gaps. They also will evaluate safeguards concepts and approaches relating to the implementation of technology and international safeguards policy. The successful candidate will, in addition, be involved with laboratory projects in analytical instrumentation and actinide chemistry that directly support nuclear materials processing at Savannah River Site; these activities will provide hands-on experience with technological challenges common to safeguards applications.

Our Postdoctoral Research Associates have initial one-year appointments, with an option to renew for up to three years, depending on project needs and the continued availability of funding. The salary and benefits are quite competitive. We encourage publication of non-classified results of research efforts, and appreciate candidates that can demonstrate their scientific productivity through peer-reviewed publications and novel research approaches to complex problems. The area around SRNL is a great place to live in terms of climate and cost of living. For further details please visit <http://ornl.gov/srnl/about-srnl/about-srnl.html>.

Appointments are made through the Oak Ridge Institute for Science and Education (ORISE).

Qualifications The successful candidate must have a Ph.D. in chemistry, radiochemistry, nuclear engineering, material science, or a related field. Experience in the area of nuclear measurements, analytical chemistry (especially optical spectroscopy), nanotechnology, and/or materials science is preferred. Experience in leading research projects and writing proposals is also desirable, as is experience in working in cross-disciplinary research teams.



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The researcher must have a demonstrated ability to apply conventional and advanced scientific and engineering practices to various complex technical and policy-related requirements, and to apply special materials or processes to problem solving and program planning. Applicants cannot have received the most recent degree more than five years before the date of application and must complete all degree requirements before starting their appointment.

This position is open to U.S. citizens only and may require the ability to obtain and maintain a U.S. Department of Energy security clearance.

The SRNL Postgraduate Research Associates Program is administered by ORAU through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education (ORISE).

For more information about the SRNL Postdoctoral Research Associate Program, please visit <http://orau.org/srnl/>.

This is an equal opportunity program open to all qualified individuals without regard to race, color, age, sex, religion, national origin, mental or physical disability, genetic information, sexual orientation, or covered veteran's status.

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Doctoral Degree received within the last 60 month(s).
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Engineering** ([4](#) )
 - **Mathematics and Statistics** ([1](#) )
 - **Physics** ([16](#) )
 - **Science & Engineering-related** ([1](#) )

Affirmation I certify that i have completed coursework towards a degree in science, technology, engineering, mathematics, or a related field.

ORAU is an Equal Opportunity Employer (**EOE AA M/F/Vet/Disability**); visit the [ORAU website](#) for required employment notices.