

**Opportunity Title:** SRNL Postdoctoral Research Associate, Nuclear Measurements

**Opportunity Reference Code:** SRNL-17-01-ADD

**Organization** Savannah River National Laboratory (SRNL)

**Reference Code** SRNL-17-01-ADD

**How to Apply** How to apply • Submit application and supporting documents by clicking on Apply Now button. • For more information, contact: SRNLPostdocProgram@ornl.org.

**Application Deadline** 4/15/2018 12:00:00 AM Eastern Time Zone

**Description** The Savannah River National Laboratory's Analytical Development Section seeks early-career scientists and engineers to support our analytical services and conduct research and development in our Radiochemistry and Nuclear Measurements Laboratories. Currently, we offer a Postdoctoral Research Associate position, in which the successful candidate would provide expertise in one or more of these three key areas:

1. Conduct neutron- and gamma-based non-destructive assays and modeling of various materials, and provide technical support for Savannah River Site's Safeguard/Criticality applications;
2. Support a wide customer base by conducting novel and routine radiochemical separations and/or nuclear measurements on various sample matrices containing a wide range (environmental to high dose) of radioactivity; and
3. Provide expertise in nuclear measurement research and development to support the needs of various government agencies, including several offices within the U.S. Department of Energy.

**Location:** This job will be located at Savannah River National Laboratory, Aiken, SC.

**Compensation:** Competitive salary with benefits.

**Hours:** Full-Time

**Expected Start Date:** The position is full-time and expected to begin in July 2017. The selected candidate will be a temporary employee of ORAU working as a Postdoctoral Research Associate at SRNL. The initial project is one year, with an option to renew for up to one additional 12 month period, depending on project needs and the continued availability of funding.

**Qualifications Eligible applicants must:**

- Be a US Citizen,
- Have earned a Ph.D. preferably in Nuclear Physics, Nuclear Chemistry, Nuclear/Radiological Protection Engineering, or related disciplines (for example, chemistry or health physics), from an accredited university or college within the last 60 months, and
- Be capable of obtaining a security clearance.

Successful candidates will:



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- Initiate proposals to apply radiochemical and nuclear measurement techniques to diverse sample matrices found in the Department of Energy complex, and develop and apply technical experience at SRNL and elsewhere to resolve complex problems;
- Establish excellent technical credibility: this would involve meeting department missions and goals, as evidenced by issuing reports, making presentations, preparing peer-reviewed technical articles and patents, and /or being involved in national technical organizations;
- Mentor less senior professionals, as a means of transferring technical knowledge and insight; and
- Possess research or work-related experience in one or more of the following areas:
  - Laboratory gamma, alpha, and beta spectroscopy, plus expertise in spectroscopic data analysis
  - Field measurements of gamma radiation and/or neutrons
  - Radioactive material handling
  - Radiochemical separations
  - Configuration of nuclear measurements systems
  - Radiation transport code modeling (i.e., MCNP, Microshield, etc.)
  - The nuclear fuel cycle and the Chart of the Nuclides.

For general application process questions and program eligibility, please contact: [SRNLPostdocProgram@ornl.gov](mailto:SRNLPostdocProgram@ornl.gov).

Information on the Savannah River Nuclear Laboratory can be found at <http://srnl.doe.gov/>.

Applications will be accepted until the position is filled. Appointments are made through the Oak Ridge Institute for Science and Education (ORISE).

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).

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
  - **Degree:** Doctoral Degree received within the last 60 month(s).
  - **Discipline(s):**
    - **Chemistry and Materials Sciences** ([1](#) )
    - **Engineering** ([2](#) )
    - **Life Health and Medical Sciences** ([1](#) )
    - **Physics** ([3](#) )

**Affirmation** I certify that I am at least 18 years of age; have earned a Ph.D. preferably in Nuclear Physics, Nuclear Chemistry, Nuclear/Radiological Protection Engineering, or related disciplines (for example, chemistry or health physics), from an accredited university or college within the last 60 months; and a citizen of the United States of America.

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

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