

**Opportunity Title:** Postdoctoral Research Associate, Nuclear Measurements and Radiochemical Separations

**Opportunity Reference Code:** SRNL14-02-ADS

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

**Reference Code** SRNL14-02-ADS

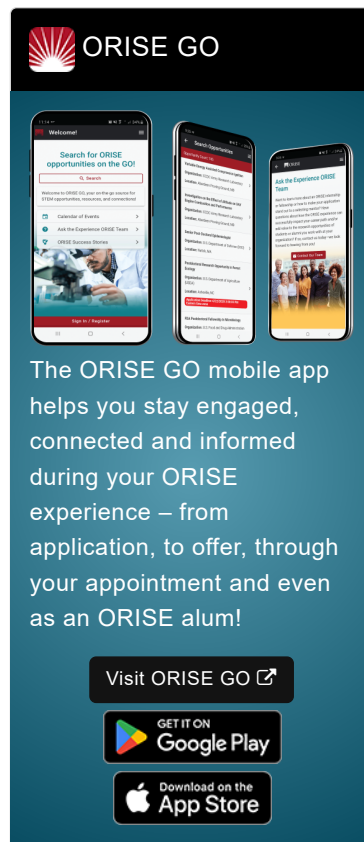
**Description** The Savannah River National Laboratory's Analytical Development Section seeks early-career scientists and engineers to support our analytical services and conduct research and development in our Radiochemistry and Nuclear Measurements Laboratories. Currently, we offer a Postdoctoral Research 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;
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.

Preferred disciplines are Nuclear Physics, Nuclear Chemistry, or Nuclear/Radiological Engineering, but applicants having related disciplines will be considered. The successful candidate will initiate proposals to apply radiochemical and nuclear measurement techniques to very diverse sample matrices found in the Department of Energy complex, and develop and apply technical experience at SRNL and elsewhere to resolve complex problems. The successful candidate also must be able to establish excellent technical credibility: this would involve meeting department missions and goals, evidenced by issuing reports, making presentations, preparing peer-reviewed technical articles and patents, and /or being involved in national technical organizations. The successful applicant also will be expected to mentor less senior professionals, as a means of transferring technical knowledge and insight.

**Qualifications** The successful candidate must have a Ph.D. degree, must be a U.S. citizen, and must have 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



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- Configuration of nuclear measurements systems
- Radiation transport code modeling (i.e., MCNP, Microshield, etc.)
- The nuclear fuel cycle and the Chart of the Nuclides

- Eligibility**
- **Citizenship:** U.S. Citizen Only
- Requirements**
- **Degree:** Doctoral Degree received within the last 60 month(s).
  - **Discipline(s):**
    - **Engineering** ([27](#) 👁)
    - **Physics** ([16](#) 👁)

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