

Postdoctoral Research Associate in Nuclear Fuel Development and Characterization

**Materials Science & Technology Division
Physical Sciences Directorate
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNLO9-72-MSTD

Project Description:

The Materials Science and Technology Division at Oak Ridge National Laboratory is seeking an exceptional candidate to fill a postdoctoral position in nuclear fuels. The applicant must possess a strong background in nuclear fuel fabrication, characterization, and/or testing and have demonstrated experience in the handling of radioactive materials. The application should be proficient in the use of and data analysis for advanced pre- and post-irradiation characterization techniques such as scanning electron microscopy (energy and/or wavelength dispersive x-ray spectroscopy), transmission electron microscopy, and x-ray diffraction. Expertise in fuel thermochemistry is an asset. This position provides an opportunity to join an experienced nuclear fuels team working in collaborative experimental programs that range from the fabrication and characterization of nonradioactive prototype fuel surrogates, of coated particle fuels for reactor irradiations, to the post-irradiation examination and testing of irradiated fuel.

Qualifications:

The position requires a Ph.D. in Nuclear Engineering or a related field in chemistry or materials science, hands-on experience with radioactive materials, and proficiency with electron microscopy. A highly motivated individual with excellent communication skills in English, ability to work as part of a research team, and a proven research track record is required.

Applicants cannot have received the most recent degree more than five years prior to the date of application and must complete all degree requirements before starting their appointment.

Technical Questions:

Rodger Martin at martinrc@ornl.gov (Include the requisition number and title when responding.)

How to Apply:

Qualified applicants may apply online at https://www2.ornl.gov/ORNL_POST/. All applicants will need to register before they can begin the online application. For complete instructions, on how to apply, please see the instructions at <http://www.ornl.gov/orise/edu/ornl/ornl-pdpm/application.htm>. When applying for this position, please reference the position title and number.

This appointment is offered through the ORNL Postgraduate Research Associates Program and is administered by Oak Ridge Associated Universities (ORAU). This appointment is open to all qualified U.S. and non-U.S. citizens without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.