

Postdoctoral Research Program in Neutron Scattering

Neutron Scattering Science Division Oak Ridge National Laboratory Oak Ridge, Tennessee

ORNL10-39-NSSD

Project Description:

The Neutron Scattering Sciences Division (NSSD) of Oak Ridge National Laboratory (ORNL) (<http://www.ornl.gov>) operates two of the brightest neutron sources in the world, the Spallation Neutron Source (SNS) and the High Flux Isotope Reactor (HFIR), for basic and applied research in a broad range of disciplines including physics, chemistry, materials science and biology. NSSD has continual openings for postdoctoral research associates to conduct independent research using neutron scattering as a primary tool, and mentored by NSSD scientific staff. The goal of the NSSD general Postdoctoral Program is to provide the opportunity for the best possible appointees to conduct world-leading research involving neutron scattering, and for these individuals in addition to receive the best possible professional development.

Major Duties and Responsibilities:

- Conducts independent scientific research using neutron scattering.
- Candidates with research interests in soft condensed matter, life sciences, materials chemistry, condensed matter physics, materials engineering, or related fields are invited to apply.
- Ensures compliance with environmental, safety, health, and quality program requirements including integrated safety management.
- Maintains a strong commitment to the implementation and perpetuation of laboratory values and ethics.
- Expectations of the mentors are designed to ensure individual and well-rounded professional development for each candidate.

Qualifications:

The candidate should have strong interpersonal, communication, and oral skills and demonstrated ability to interact effectively with staff at all levels within a multi-disciplinary team. **Must have a Ph.D. in the physical sciences (e.g., biochemistry, chemistry, physics, materials science, geoscience, or related disciplines).** 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.

Selection Process:

The selection process will be two staged, (1) collection of applicant pool, and (2) selected applicants from the pool will partner with NSSD staff (mentors) to prepare and submit a full research proposal to an internal selection committee.

How to Apply:

Qualified applicants must 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>.

This appointment is offered through the ORNL Postgraduate Research Participation Program and is administered by the Oak Ridge Institute for Science and Education (ORISE). The program 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.