

# **Postdoctoral Research Associate in Instrument Development**

**Neutron Sciences Directorate  
Neutron Facility Development Division  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee**

**ORNL09-89-NFDD**

## **Project Description:**

Under limited supervision carries out computer simulations of neutron scattering beamlines for the purpose of evaluating the performance of various instrument types implemented at the proposed SNS Second Target Station.

## **Major Duties/Responsibilities:**

- Carries out computer simulations of neutron scattering beamlines and optical components.
- Participates with other group members in developing goals, resource plans, and policies.
- Ensures compliance with environment, safety, health, and quality program requirements including ISMS.
- Maintains a strong commitment to the implementation and perpetuation of values and ethics.
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## **Work Direction/Interfaces:**

Reports to the Instrument Development Group Leader of the Neutron Facilities Development Division. Works with physicists, engineers, scientific associates, and students at ORNL and the partner labs. Some travel required.

- Carefully and accurately performs work towards completing the evaluation of instruments for the SNS Second Target Station.
- Performs work in a safe and careful manner.
- Successfully helps to create an environment in which individuals within the group can meet NScD/ORNL environmental, safety, health, and quality requirements: and successful enforcement of these requirements.
- Successfully reports and represents responsible activities to the Instrument Development Group members.

## **Qualifications:**

The successful candidate must have at a Ph.D. degree in the physical sciences or an equivalent technical field. The incumbent will have the ability to contribute rapidly to the effort to evaluate the performance of instruments proposed for the SNS Second Target Station. Familiarity with programming in C and experience with Monte Carlo techniques and neutron scattering are desirable.

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:**

Contact Dr. Lee Robertson at [robertsonjl@ornl.gov](mailto:robertsonjl@ornl.gov). Please reference the position title and number when corresponding about this position.

**How to Apply:**

Qualified applicants must apply online at [https://www2.ornl.gov/ORNL\\_POST/](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.

The postdoctoral position will be offered through the Oak Ridge Institute for Science and Education (ORISE) Oak Ridge National Laboratory Postdoctoral Research Associates program <http://www.ornl.gov/orise/edu/ornl/ornl-pd/ornlpdoc.htm>. These positions is open to all qualified candidates without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.