

Post-Master's or Post-Bachelor's Neutron Scattering Instrument Associate

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

ORNL09-73-NSSD

Project Description:

The Neutron Scattering Science Division (NSSD) at Oak Ridge National Laboratory (ORNL) invites applications for a Neutron Scattering Instrument Associate. The mission of the division is to carry out and enable excellent and vibrant science programs using neutron scattering instruments by supporting a world-class user science program, developing and participating in signature science programs across ORNL, and conducting cutting-edge in-house research. The NSSD is responsible for operating and developing the neutron scattering instruments located at both the Spallation Neutron Source (SNS) and the High Flux Isotope Reactor (HFIR). Research at the facilities will encompass the physical, chemical, materials, biological, and medical sciences.

The Neutron Scattering instrument Associate serves as the technical specialist in assisting users and NSSD personnel in the performance of experiments and analysis of the results utilizing NSSD beamline instruments.

Major Duties/Responsibilities:

- Works with and provides technical guidance to users and NSSD Instrument Scientists in the performance of experiments and analysis.
- Serves as the technical specialist for the operation and maintenance of sophisticated equipment used for neutron scattering.
- Conceives, designs, and develops improvements or changes in neutron scattering instrument components or in other related equipment.
- Ensures facilities are under safe and environmentally sound conditions, and ensures that NSSD users perform their experiments in a safe and environmentally sound manner.
- Develops and presents general facility records, reports, and analyses.
- Proposes, develops, and presents procedures for operating and maintaining beamline equipment.
- Plans and leads in the testing and evaluation of new or developmental equipment.

- May give work direction to technicians, craft workers, and less experienced personnel.

Qualifications:

M.S. degree in science, engineering or related field or B.S. degree plus 2 years of experience in a science or engineering field. Good communications and interpersonal skills required. Ability to work in a team environment required. Demonstrated computer literacy including proficiency in word processing and communications skills required. Direct experience working on neutron scattering related instruments and software is highly desirable. Must be capable of working with scientists and engineers from verbal or written instructions. Must have demonstrated the ability to bridge the gap between other technical disciplines during installation, commissioning, and operations. Periods of moderate travel and off-normal work hours will be 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:

Questions regarding the position can be directed to Dr. Joerg Neufeind (neufeindjc@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/. 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 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.