

Neutron Scattering Instrument Scientist

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

ORNL09-98-NSSD

Project Description:

The Neutron Sciences Directorate at Oak Ridge National Laboratory (ORNL) invites applications for Neutron Scattering Instrument Scientists. With the world's highest flux reactor-based neutron source (the High Flux Isotope Reactor) and the world's most intense pulsed accelerator-based neutron source (the Spallation Neutron Source), ORNL has become the world's foremost center for neutron science. Research at these facilities will encompass the physical, chemical, materials, biological, and medical sciences and will provide opportunities for up to 2000 researchers each year from industry, research facilities, and universities all over the world. To learn more about Neutron Sciences at ORNL go to: <http://neutrons.ornl.gov>.

The successful candidate will be a team member to provide operational support for specific instruments at the Spallation Neutron Source and High Flux Isotope Reactor, and to develop a vigorous scientific program associated with the instrument.

Major duties and responsibilities:

- Will work with Lead Instrument Scientist and Scientific Associate to provide user support. This will include helping users to develop user proposals, conduct experiments, and analyze data.
- Will maintain the instrument and coordinate with support groups to make sure that the instrument is ready for each user experiment.
- Will work with other staff and research groups at ORNL to conduct world leading research using instruments at ORNL.
- Will work with the team to conceive, plan, and execute upgrades of the instrument. This will include both hardware and software.

Qualifications:

Ph.D. plus postdoctoral experience in material science, physics, mechanical engineering, or related fields, involving neutron and/or x-ray diffraction, or equivalent combination of training and experience, is required. Strong written and oral communication skills and the desire to work in a team environment on technically and scientifically challenging problems are required. Experienced with instrument, software and programming development, particularly at a neutron or x-ray facility is 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 Contacts: (identified by specific instruments)

Triple Axis Group – Dr. Jaime A. Fernandez-Baca, fernandezbj@ornl.gov

Low Q Group – Dr. Gregory S. Smith, smithgs1@ornl.gov

Powder Diffraction Group – Dr. Xun-Li Wang, wangxl@ornl.gov

TOF Inelastic Group – Dr. Mark E. Hagen, hagenme@ornl.gov

Single Crystal Diffraction Group - Dr. Bryan C. Chakoumakos, chakoumakobc@ornl.gov

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.