

**Postdoctoral Research Associates in
Condensed Matter Science**

**Neutron Scattering Sciences Division
Neutron Sciences Directorate
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL08-124-NSSD

Project Description:

The Neutron Scattering Sciences Division at the Oak Ridge National Laboratory invites applications for the postdoctoral researcher in the area of condensed matter science. The successful candidate will spend 50% of his or her time participating in research to study the structure and dynamics of materials related to energy production and environmental protection using small-angle neutron scattering and 50% supporting general user program experiments on the CG@ General Purpose SANS at the High Flux Isotope Reactor (HFIR) in Oak Ridge. The materials to be studied can include the effects of precipitates or nanophase additives, ageing, heat treatment, and radiation catalytic materials, or complex fluid micelle systems for solvent extraction or synthesis of nanophase materials.

Qualifications:

A Ph.D in physics, chemistry, materials science or a related field 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. The ideal candidate should have experience with either neutron or x-ray scattering techniques and in modifying and designing sample environment equipment, and scientific expertise either in preparing ceramic or metallurgical samples or in the chemistry of complex fluids for solvent-extraction or the preparation of nanophse materials. Experience with and knowledge of the SANS instrument operation data treatment etc on pulsed neutron sources are desired, though not required. Strong written and oral communication skills and the desire to work in a team environment on scientifically challenging problems are required.

Technical Questions:

Contact Dr. Kenneth Littrell, Lead Instrument Scientist, HFIR/NSSD, MS 6393, Oak Ridge National Laboratory, Oak Ridge, TN 37831, E-mail: littrellke@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. Note: Applicants will be evaluated on a continuing basis. Salaries and benefits will be competitive.

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/education/orise-education/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.