

## **Postdoctoral Research Associate in Neutron Scattering**

### **Neutron Scattering Science Division Spallation Neutron Source Oak Ridge National Laboratory Oak Ridge, Tennessee**

**ORNL08-60-NSSD**

#### **Project Description:**

The high pressure group at Oak Ridge National Laboratory is seeking a postdoctoral scientist to work within the single crystal diffraction group on the newly operating neutron diffraction instrument SNAP. SNAP is one of the newest instruments at the Spallation Neutron Source at Oak Ridge and has recently received first neutrons. This instrument currently has a variety of high pressure equipment including large-volume high-capacity presses, gas pressure cells and gem anvil cells that combined are capable of generating pressures from several kilobar to several tens of GPa. This high pressure research group currently conducts research on materials using a variety of techniques including neutron scattering, x-ray diffraction at synchrotron sources, and optical spectroscopy as well as collaborating with various theory groups. Primarily, this position involves carrying out research on materials properties and processes under extreme conditions of pressure and temperature using neutron scattering techniques.

#### **Qualifications:**

To be considered for this position, applicants need to have completed a Ph.D. degree in physics, chemistry, materials science, earth sciences or a related field. Although the research will be focused on high pressure phenomenon, previous high pressure technique experience is not a requirement for consideration. We encourage interested persons with crystal structure refinement experience either using neutron or X-ray data to apply. Particular attention will be given to candidates with data reduction and analysis software development experience.

#### **How to Apply:**

Qualified applicants may 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.

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.