

Postdoctoral Research Associate in Structure and Dynamics of Earth Materials and Interfaces

Chemical Sciences Division
Oak Ridge National Laboratory
Oak Ridge, Tennessee

ORNL10-30-CSD

Project Description:

The Geochemistry and Interfacial Sciences group (Dr. David Cole, group leader, http://www.ornl.gov/sci/csd/Research_areas/gis_group.html), in the Chemical Sciences Division at Oak Ridge National Laboratory (<http://www.ornl.gov>) invites applications for a Postdoctoral Research Associate position in neutron scattering for a 1 year appointment with the possibility of extension to interrogate the interaction of fluids with mineral substrates (as planar surfaces or nanoporous media). The group studies fundamental and applied aspects of the interaction of fluids (aqueous; non-aqueous) with solids (natural; engineered) across a wide range of length and time scales with the goal to reach a predictive level of understanding of fluid-mediated processes in complex earth and technological systems. Researchers take advantage of the Spallation Neutron Source and the High-Flux Isotope Reactor (<http://neutrons.ornl.gov>) at ORNL study the static and dynamic neutron scattering from ambient conditions to high temperatures and pressures to understand the nano-scale properties of free and confined fluid-solid interfaces.

Qualifications:

Candidate must have a Ph.D. in Chemistry, Physics, Materials Sciences, or closely related field. The candidate must have demonstrated experimental skills and experience in one or several X-ray or neutron scattering techniques (SANS, NR, diffraction, QENS, NSE). Programming skills are desirable. The candidate should be able to work independently and participate creatively in refining project directions. The candidate must have good oral and written communication skills, and be able to interact effectively with a broad range of colleagues. Applicants cannot have received the most recent degree more than five years prior to the date of application appointment and must complete all degree requirements before starting their appointment.

Technical Questions:

Questions regarding the position can be directed to Dr. David Cole at coledr@ornl.gov. Please include the requisition number and title when corresponding.

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>.

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.