

**Postdoctoral Research Associate
in Environmental Geochemistry**

**Environmental Sciences Division
Biological and Environmental Sciences Directorate
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL09-54-ESD

Project Description:

Oak Ridge National Laboratory (ORNL) seeks a highly motivated and creative individual skilled in experimental biogeochemistry to work with a multidisciplinary research team investigating coupled geochemical, biological and environmental processes on the transformation of contaminants such as mercury (Hg) and other heavy metals and radionuclides in sediment-water systems. Current research at ORNL in this area spans from the molecular to the field scales although for this position the work will be conducted mostly in the laboratory. The successful candidate will focus their research efforts on understanding the geochemical and molecular processes that control contaminant transformations at an industrially contaminated site on the Oak Ridge Reservation. The candidate must be able to design and execute experiments and familiar with a range of wet-chemical and advanced spectroscopic techniques to carry out the experiment. A strong publication record is a plus.

The technical resources available at ORNL are outstanding and the opportunities to participate in multi-disciplinary research are exceptional. The Environmental Sciences Division at ORNL has a strong core expertise and research facilities from molecular- to field-scale geochemistry and microbiology. ORNL hosts two world-class neutron sources (<http://neutrons.ornl.gov/>) and Centers of Nanophase Materials Science and Joint Institute of Biological Sciences; development and application of neutron scattering methods, nanotechnology, and genomics to this project are encouraged. Opportunities exist to collaborate with skilled researchers in chemistry, biology, geochemistry, environmental microbiology, and physical and material sciences within ORNL, at collaborating Universities and other National Laboratories.

Qualifications:

This position requires a Ph.D. in chemistry, geochemistry, environmental science, biochemistry, soil science, or a related discipline. While not required, familiarity with modern techniques in advanced spectroscopy, microbiology and nanotechnology would be an asset. Strong oral and written communication skills are required. The candidate must have the ability to work in a team environment and 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 and must complete all degree requirements before starting their appointment.

Technical Questions:

Questions regarding the position can be directed to Baohua Gu at gub1@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.