

Postdoctoral Research Associate in Environmental Nanotechnology

**Environmental Sciences Division
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL10-56-ESD

Project Description:

The Oak Ridge National Laboratory (ORNL) is seeking 1-2 post-doctoral candidates in the areas of nanomaterials synthesis and applications in environmental sensing, catalysis or photocatalysis, and energy utilization. The candidates will actively participate in projects on nanoparticle-hydrogel based chemical sensor fabrication and/or new nanocatalyst development for the photodegradation of biomass. In particular, the candidate will be involved in nanomaterials synthesis, characterization, and catalytic photochemical experiments. The candidate should have a strong background in chemistry, material science and nanotechnology, and 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 in wet chemical synthesis, environmental chemistry and technology. ORNL hosts two world-class neutron sources (<http://neutrons.ornl.gov/>) and Centers of Nanophase Materials Science (<http://www.cnms.ornl.gov/>) and Joint Institute of Biological Sciences. 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:

The positions require Ph.D. in chemistry, material science, biochemistry, or a related discipline with demonstrated experience using advanced techniques for nanomaterials fabrication, characterization, and application. Strong background in nanotechnology, catalysis, photochemistry, electrochemistry or polymer chemistry is desirable. 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 should have received their highest degree no more than five years prior to the date of application and must have completed all degree requirements before starting their appointment.

Technical Questions:

Questions regarding the position can be directed to Dr. Wei Wang, wangw@ornl.gov or Dr. Baohua Gu, gub1@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.