

Postdoctoral Research Associate in Computational Catalysis

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

ORNL10-64-CSD

Project Description:

The Nanomaterials Chemistry Group of Chemical Sciences Division (CSD) at the Oak Ridge National Laboratory invites applications in the area of computational heterogeneous catalysis. The candidate will perform research in finding out active sites on solid catalyst surfaces for energy-related catalysis by employing density functional theory. This work will be performed in close collaboration with our experimental partners, to understand mechanisms of catalysis on solid surfaces. Excellent computing facilities are available at Oak Ridge National Laboratory and other DOE-funded supercomputing centers.

Qualifications:

We are seeking candidates with experience in computational surface chemistry and catalysis. Proven records in applying density functional theory to solids, surfaces, adsorption, and surface reactions are a must. Experience with kinetic Monte Carlo is a plus. This position requires a PhD. in Chemistry or Chemical Engineering, or a closely related field. Excellent oral and written communication skills are required, and presentations and publication of scientific results in peer reviewed journals are expected. The candidate must have the ability to work in a team and interact effectively with a broad range of colleagues. Demonstrated ability to communicate in English to an international scientific audience is essential. 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 De-en Jiang, jiangd@ornl.gov. Please include the requisition number and title when corresponding.

How to Apply:

Applications will be accepted until February 28, 2010 or until the position is filled. 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.