

Postdoctoral Research Associate in Heterogeneous Catalysis

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

ORNL10-43-CSD

Project Description:

The Nanomaterials Chemistry Group of Chemical Sciences Division (CSD) at the Oak Ridge National Laboratory invites applications in the area of heterogeneous catalysis for converting syngas (CO+H₂) to alcohol. The candidate will perform research in synthesizing carbon-supported transition-metal nanoparticles, testing their catalytic capability for converting syngas to alcohol, and characterizing their physical properties. The research will involve collaboration with team members in the Physical Organic Chemistry Group and Surface Chemistry and Catalysis Group of CSD, in the Microscopy Group of the Materials Science and Technology Division, and in the Center for Nanophase Materials Sciences (CNMS).

Qualifications:

We are seeking candidates with experience in all major aspects of heterogeneous catalysis: synthesis, testing, and characterization. This position requires a Ph.D. 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 at jiangd@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>.

NOTE: Applications will be accepted until January 31, 2010 or until the position is filled. 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.