

Postdoctoral Research Associate Position in Catalytic Evaluation and Characterization of Carbon-based Catalysts

Center for Nanophase Materials Sciences Oak Ridge National Laboratory

ORNL10-58-CNMS

The Multiscale Functionality Group of the Center for Nanophase Materials Sciences (CNMS) (<http://www.cnms.ornl.gov/>) at Oak Ridge National Laboratory (ORNL) is seeking a postdoctoral associate to work on a research project in catalysis by carbon materials.

Brief Description of Major Duties and Responsibilities

It is expected that the researcher will conduct research into the use of carbon-based catalysts that will facilitate oxidative dehydrogenation reactions and other probe reactions, such as CO hydrogenation processes. The underlying goal will be to achieve a fundamental understanding of the active sites in these heterogeneous catalytic processes and the relationship between the structure of the carbon-based materials and their catalytic properties. Duties include reaction mechanism studies using flow reactors for heterogeneous catalytic processes.

Qualifications:

Candidates must have a Ph.D. in chemistry, materials chemistry, chemical engineering or a closely related field. The successful candidate will have a demonstrated background in the use of many techniques to probe reaction pathways, catalyst behavior, and catalyst structure. The candidate should be a self-starter, able to work independently and able to participate creatively in refining program directions. Presentations at national meetings and publication of scientific results in peer-reviewed journals are expected. 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.

Remarks

For more information about this position please contact Dr. Viviane Schwartz (schwartzv@ornl.gov) and reference this position title and number in your correspondence. Applications will be accepted until May 1, 2010 or until the position is filled.

How to Apply:

Qualified applicants may 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). This appointment 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.