



Postdoctoral Research Associate Position
Synthesis, Modification and Characterization of Carbon Catalysts
Center for Nanophase Materials Sciences, Oak Ridge National Laboratory

ORNL09-131-CNMS

The Multiscale Functionality Group of the Center for Nanophase Materials Sciences (<http://www.cnms.ornl.gov/>) (CNMS) at Oak Ridge National Laboratory (ORNL) is seeking a postdoctoral associate to work on a research project in catalysis by carbon materials. It is expected that the candidate will conduct research into the synthesis of nanoporous carbon and carbon supported catalysts that will facilitate the dehydrogenation of parafins and the hydrogenation of CO and CO₂. The underlying goal will be to achieve a fundamental understanding of the heterogeneous catalytic processes in this reaction system and the catalytic properties related with improved performance. Duties include synthesis of mesoporous carbon and carbides; structural characterization by surface and bulk analytical techniques; and evaluation under reaction conditions.

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 synthesis of nanostructured catalytic materials and the use of many physical and chemical techniques for probing composition and structure of these materials and for testing their catalytic behavior. 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. Chengdu Liang (liangcn@ornl.gov) and reference this position title and number in your correspondence. Applications will be accepted until December 1, 2009 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 information 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.