

Postdoctoral Research Associate in Complex Hydrides for Hydrogen Storage

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

ORNL10-35-CSD

Project Description:

The Chemical Sciences Division of Oak Ridge National Laboratory is seeking a post-doctoral research associate to conduct research with the objective of developing the chemistry for a reversible hydrogen storage system based on derivatives of alane or the complex hydrides of the borohydrides, amines/amides/imides, or alanates of the light elements in the periodic table. Fundamental research is needed that focuses on understanding the structural, thermodynamic, physical, and chemical properties of these materials as well as a mechanistic understanding of chemical reactions that are suitable for reversible hydrogen storage.

Qualifications:

Candidates must have a Ph.D. in inorganic or organometallic chemistry or a closely related field. This position requires a strong experimentalist with experience in the physical and spectroscopic characterization of inorganic materials and with demonstrated experience in the synthesis and characterization of air and moisture sensitive materials. 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 in English, 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.

Technical Questions:

Questions regarding the position can be directed to Gilbert Brown at browngm1@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.