

**Postdoctoral Research Associates in
Materials for Electrical Energy Storage**

**Materials Science & Technology Division
Physical Sciences Directorate
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL08-123-MSTD

Project Description:

The Materials Science and Technology Division of Oak Ridge National Laboratory is seeking candidates for several postdoctoral research associates for its materials research program for electrical energy storage.

Selected candidates will work in a team on synthesis and characterization of novel battery materials and development of novel characterization tools. Projects will include: studies of solid electrolytes, electrode interface reactions, photonic processing, solid state diffusion, mechanical fatigue, and in situ characterization techniques. Several projects are collaborative efforts with researchers from materials research laboratories including MIT, Univ. Michigan, and Wake Forest University as well as with industrial battery developers. Research will be directed by Dr. Nancy Dudney or Dr. Claus Daniel.

Qualifications:

Applicants should have a Ph.D. in materials science, electrochemistry or a related field with a strong background in electrochemical testing, mechanical properties of inorganic compounds or glasses, and surface treatments. Experience in one or more of the above mentioned fields is highly desirable. The applicant must have demonstrated abilities in problem solving, collaborative research, and communication in both peer-reviewed research journals and in oral presentations. The postdoctoral appointment is for a full-time one-year position with the possibility of renewal. Applicants cannot have received the most recent degree more than five years prior to the date of application and must complete all degree requirements before starting their appointment.

Technical Questions:

Contact Dr. Nancy Dudney at dudneynj@ornl.gov. Please reference the position title and number when corresponding about this position.

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>. When applying for this position, please reference the position title and number. Note: Salaries will be competitive.

The postdoctoral position will be offered through the Oak Ridge Institute for Science and Education (ORISE) Oak Ridge National Laboratory Postdoctoral Research Associates program <http://www.ornl.gov/orise/education/orise-education/orise-education-pd/orise-education-pd.htm>. These positions is open to all qualified candidates without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.