

Postdoctoral Research Associate in Materials Research in Solid-Oxide Fuel Cells

Materials Science and Technology Division

Oak Ridge National Laboratory

Oak Ridge, Tennessee

ORNL10-106-MSTD

Project Description:

The Materials Science and Technology Division at Oak Ridge National Laboratory is seeking a candidate for a postdoctoral research associate position for its materials research program supporting the development of durable and reliable solid-oxide fuel cells (SOFC). The selected candidate will work on the characterization of the physical and mechanical properties of SOFC constituents and the investigation of the role of microstructure on their properties. Project will include: development of new tools and instrumentation for the determination of physical and mechanical properties of SOFC constituents, including thin electrode and electrolyte layers.

The position is for one year with the possibility of renewal for a second year upon satisfactory performance and continuation on funding.

Qualifications:

Applicants should have a Ph.D. degree in materials science and engineering or a related field with a strong background in thermomechanical characterization of materials and devices. Experience in mechanical behavior of materials and miniature test specimens is highly desirable. Knowledge of finite element modeling is a plus. The applicant must have demonstrated abilities in problem solving, collaborative research, and excellent communication skills.

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. Applications will be accepted until the position is filled.

Technical Questions:

Questions regarding the position can be directed to Edgar Lara-Curzio at laracurzioe@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.