

**Postdoctoral Research Associate
in the Building Envelopes Program**

**Energy and Transportation Science Division (ETSD)
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL08-72-ETSD

Project Description:

The Building Envelopes Program (BEP) in the Energy and Transportation Science Division (ETSD) at the Oak Ridge National Laboratory (ORNL) is seeking a researcher to conduct projects, assist in the expansion of research and manage R&D in the development of projects to support the BEP. This program is involved in research, demonstration, and technology transfer activities to provide more energy-efficient and sustainable building wall, roof, and foundation systems. Whole building analyses, an integration of the building envelope and the building systems, is an emerging area. Candidates will work within the ORNL Buildings Technology Center of Excellence, a Department of Energy (DOE) National User Facility. This Center is a recognized focal point for addressing technical problems confronting the U.S. building industry. This work is funded by the U.S. Department of Energy, under the Building Technologies Program within the Office of Energy Efficiency and Renewable Energy.

The selected candidate will work with other researchers on projects, collaborate with research staff on future research initiatives, manage research projects, network with related organizations, market potential sponsors for additional research, and prepare proposals and present research results to sponsors and others.

For additional information on the Building Envelopes Research Program click on the following URL: www.ornl.gov/sci/roofs+walls

Qualifications:

Applicants are expected to have a Ph.D. in engineering or physics. Demonstrated proficiency in building energy simulation, heat and mass transfer, experience integrating numerical analysis with experimental studies to benchmark the analysis is desired. Familiarity with numerical calculation and statistical data analysis techniques are essential. Knowledge of building envelope systems and materials is required. Excellent communication skills, oral and written, are important expected attributes and candidates will be expected to develop or maintain strong relationships through active participation in building industry events. Oral presentation skills are needed to make presentations to sponsors and clients, effective writing skills for preparing reports, proposals, and publications/journal articles, and strong interpersonal skills to support team building and leadership. No security clearance is required for this position. Travel is required.

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. Expected duration of these appointments is one year with the possibility of an extension. Interested candidates need to apply as soon as possible.

For technical questions regarding the position, please contact Mr. Andre Desjarlais desjarlaisa@ornl.gov.

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>. When corresponding to ORNL regarding this position, please reference the position title and number.

This appointment is offered through the ORNL Postdoctoral Research Associates Program and is administered by Oak Ridge Associated Universities (ORAU). 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.