

**Postdoctoral Research Associate in Development  
of Materials for Solid State Conversion  
of Thermal Energy to Electrical Power**

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

**ORNL09-79-MSTD**

**Project Description:**

The Oak Ridge National Laboratory (ORNL) is seeking outstanding candidates for post-doctoral appointments in ORNL's Materials Science and Technology (MST) Division. The postdoctoral associates will actively participate in projects within the MST Division's High Temperature Materials Laboratory to support the development of materials for solid state conversion of thermal energy to electrical power. The MST Division has world-leading capabilities to characterize the microstructure, physical and mechanical properties of functional and structural materials and a strong record of collaboration with industry, universities and other research organizations.

Applicants should have a solid background on applied physics or materials science, and demonstrated understanding of the relationships between the processing, microstructure, physical and mechanical properties of such materials and the physical principles behind their functional behavior.

This position provides an opportunity to join a multidisciplinary team working on collaborative programs to design, synthesize and characterize materials for solid state conversion of thermal energy to electrical power.

**Qualifications:**

The position requires a Ph.D. degree in materials science, materials engineering, physics, or chemistry, experience using advanced techniques for materials characterization, in particular transport properties and microstructure. A highly motivated individual with excellent communication skills in English, the ability to work as part of a multidisciplinary team and a proven research track record 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.

**Technical Questions:**

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Note: Please include the requisition number and title when responding.

**How to Apply:**

Qualified applicants may apply online at [https://www2.ornl.gov/ORNL\\_POST/](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.

This appointment is offered through the ORNL Postgraduate 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.