



Postdoctoral Research Associate Position
Nanoscale Properties of Epitaxial Perovskite
Center for Nanophase Materials Sciences, Oak Ridge National Laboratory

ORNL11-49-CNMS

Project Description:

The Multiscale Functionality and Imaging Functionality groups at the Center for Nanophase Materials Sciences (CNMS) at Oak Ridge National Laboratory are seeking to fill a postdoctoral research position to strengthen our on-going effort in the study of epitaxial complex oxides, with emphasis on atomically controlled synthesis and scanning probe characterization. This position will provide a unique opportunity to perform independent research within an established team and to use well-equipped laboratories (pulsed-laser deposition, rf-sputtering, 4-circle x-ray diffraction, ambient and UHV scanning probe microscopy, etc.), as well as to collaborate with researchers at the SNS and HFIR neutron sources, and the Material Science and Technology Division's theory and microscopy groups. The [CNMS](#) is a collaborative nanoscience user research facility established by the Office of Science, U.S. Department of Energy.

Qualifications:

This position requires a Ph.D. in condensed matter physics, materials science, or a related field, and an understanding of the science of magnetic materials, ferroelectrics, and correlated-electron materials. Experience in the synthesis of epitaxial perovskite thin films and general characterization methods is desired. The candidate should be highly motivated to apply a variety of scanning probe techniques to the study of nanoscale effects in complex oxides, and experience with such techniques is a plus. Demonstrated ability to communicate in English is essential. Applicants must have received their highest degree not more than five years prior to the date of application, and must complete all degree requirements before starting the appointment.

Technical Questions:

Questions regarding the position can be directed to Michael Biegalski at BiegalskiM@ornl.gov. Please include the requisition number and title listed above when corresponding. Applications will be accepted until the position is filled.

How to Apply:

Qualified applicants may apply online at https://www2.ornl.gov/ORNL_POST/. All applicants will need to register before beginning the online application. For complete information 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). 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.