

Combined Scanning Transmission and Scanning Probe Microscopy of Ferroelectrics

**Materials Science and Technology Division
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL08-23-MSTD

Project Description:

The Materials Science and Technology Division at Oak Ridge National Laboratory (ORNL) is seeking a candidate to fill a postdoctoral position in the field of combined scanning transmission electron microscopy and scanning probe microscopy of ferroelectric thin films. This program takes advantage of ORNL's suite of advanced electron microscopes, including 4 aberration-corrected instruments, as well as recently acquired (S)TEM/STM and (S)TEM/AFM capabilities.

The successful applicant must demonstrate experience in electron microscope operation, preferably FEI microscopes, as well as skills in analysis and interpretation of microscopic and spectroscopic data. This position provides an opportunity to join an experienced team working in a highly collaborative environment on the projects ranging from heterogeneous catalysis to oxide materials to semiconductors. Close interactions with the scanning probe microscopy program at ORNL's Center for Nanophase Materials Sciences (CNMS) are anticipated.

Qualifications: Ph.D. degree required in Materials Science or Physics

This position requires a Ph.D. in Materials Science, Physics, or related field, with an emphasis on advanced TEM or STEM. Knowledge of oxide crystal chemistry is a plus. Excellent oral and written communication skills are required, and presentations and publication of scientific results in peer-reviewed journals are expected. The applicant must have the ability to work in a team and interact effectively with a broad range of colleagues.

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.

U.S. citizenship or Legal Permanent Resident status is desired.

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 applying for this position, please reference the position title and number (ORNL08-23-CSD).

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. or legal permanent residents without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.