

Postdoctoral Research Associate in Complex-Oxide Heterostructures

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

ORNL10-10-MSTD

Project Description:

A postdoctoral position is available in the Materials Science and Technology Division of Oak Ridge National Laboratory. This position is to strengthen our ongoing efforts in the physics of complex-oxide thin films and heterostructures by pulsed laser deposition. We are interested in (1) developing novel oxide heterostructures and (2) studying their transport properties and interactions with solar light. Expertise with transport measurements (PPMS) and thin film growth by pulsed-laser deposition are required. Experience with materials characterization using optical methods including IR-VIS-UV and ellipsometric spectroscopies, four-circle x-ray diffraction, and SQUID is preferred.

Qualifications:

This position requires a Ph.D. in condensed matter physics, materials science, or related field. Familiarity with numerical data analysis and programming (Labview) is preferred. The successful candidate should be motivated and excellent oral and written communication skills are required. Demonstrated ability to communicate in English is essential. Applicants cannot have received the most recent degree more than five years prior to the date of application appointment and must complete all degree requirements before starting their appointment.

Technical Questions:

For more information about this position please contact Dr. Ho Nyung Lee (hnlee@ornl.gov; www.ornl.gov/~jmn) and reference this position title and number in your correspondence.

How to Apply:

Applications will be accepted until November 30, 2009 or until the position is filled. 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.