

**Postdoctoral Associate in Experimental
and Theoretical Nanomechanics, AFM**

**Computer Science and Mathematics Division
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL07-41-CSMD

Project Description:

The Oak Ridge National Laboratory (ORNL) invites applications for Postdoctoral Associates (*with potential eligibility for future staff-level positions*) to conduct research in the areas of experimental and theoretical nanomechanics with the applications to adhesion, friction, lubrication, and MEMS/NEMS. This position is a joint position with the staff of Computer Science & Mathematics and Engineering Science & Technology Divisions.

Successful candidates must have proven experience in either AFM techniques or in computational/theoretical nanomechanics/materials science and algorithm development and implementation. Knowledge in tribology, lubrication, and dynamical systems will be beneficial.

Appointments are for one year with an expected total duration of two years. Shorter term visiting positions will be also considered.

Annual stipend levels are highly competitive. One position may require the ability to obtain and maintain a U.S. Department of Energy security clearance.

Qualifications:

Minimum level of education required: Doctoral Degree

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.

Required disciplines:

Nanomechanics, AFM
Engineering and Computer Science
Physics

How to Apply:

For immediate consideration, please see the Web site for postings and links to the online application <http://www.ornl.gov/orise/edu/ornl/postneeds.htm> (which is linked to <http://jobs.ornl.gov>).

Please reference the position title and number (ORNL07-41-CSMD) when corresponding about this position.

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 who currently work in the U.S and are available for interview, without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.