



**Postdoctoral Research Associate Position**  
**Nanofabrication Research and Polymeric Materials**  
**Center for Nanophase Materials Sciences, Oak Ridge National Laboratory**

**ORNL10-182-CNMS**

**Project Description**

The Macromolecular Nanomaterials Group and Nanofabrication Research Laboratory at the Center for Nanophase Materials Sciences (CNMS) at Oak Ridge National Laboratory is searching for a candidate for a postdoctoral research position focused on working at the interface between nanofabrication, polymer synthesis, material characterization and biology. The successful candidate will perform research aligned with the development of nanostructured polymeric materials intended to influence and direct biological processes using bio-inspired, or stimuli responsive materials. The candidate will be responsible for upholding the environmental, health and safety requirements for the laboratory, and will also have involvement in the CNMS user program. 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 Polymer Science, Chemistry, Chemical Engineering, Biomedical engineering or a closely related field and strong interest and extensive experience in nanofabrication, material characterization and analysis of polymer assembly, structure, and dynamics via scattering or spectroscopic methods. The successful candidate must be capable of innovative research in these areas. Additional experience in synthesis of novel bio-inspired and/or stimuli-responsive polymers or conducting polymers, functionalization of polymeric materials, or polymers in confinement is highly desirable. Experience in cell culture, cell and molecular biology are also desirable. Excellent oral and written communication skills are required, and presentation and publication of scientific results in peer-reviewed journals are expected. The applicant must have good organizational skills and must have the ability to work in a team and interact effectively with a broad range of colleagues. Demonstrated ability to communicate in English to an international scientific audience 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 their appointment.

**Technical Questions**

For more information about this position please contact Dr. Scott Retterer ([rettererst@ornl.gov](mailto:rettererst@ornl.gov)) and Dr. Jamie Messman ([messmanjm@ornl.gov](mailto:messmanjm@ornl.gov)). Applications will be accepted until November 30, 2010 or until the position is filled.

**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 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.