

## **Postdoctoral Research Associate in Polymer Physics**

**Chemical Sciences Division  
Physical Sciences Directorate  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee**

**ORNLO9-90-CSD**

### **Project Description:**

The Chemical Sciences Division (<http://www.ornl.gov/sci/csd/>) at Oak Ridge National Laboratory is seeking exceptional candidates to fill a postdoctoral research position in polymer dynamics and characterization of nano-composite materials. The candidate's research will center around experimental studies of polymer dynamics on different time and length scales and on the influence of nano-fillers (various nano-particles, carbon nano-tubes, etc.) and molecular architecture on macroscopic properties and molecular motions in polymeric composites. The research will entail the use of light and neutron scattering techniques and dielectric relaxation spectroscopy. This research will be complemented by collaborations and interactions with polymer and computational chemists, whose research is focused on polymer synthesis, structural characterization, and simulations.

### **Qualifications:**

The position requires a Ph.D. in polymer Science, physics, materials science or a closely related field. Knowledge of polymer science and hands-on experience with polymers is required, as well as knowledge and expertise with at least one of the following techniques-- optical, neutron scattering or dielectric spectroscopy. The candidate should be able to work independently and participate creatively in refining project directions. The candidate must have good oral and written communication skills, and be able to 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 appointment and must complete all degree requirements before starting their appointment.

### **Technical Question:**

Technical questions regarding the position can be directed to Dr. Alexei Sokolov ([alexei@uakron.edu](mailto:alexei@uakron.edu)). Please reference this position title in your correspondence.

### **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 instructions, on how to apply, please see the instructions at <http://www.ornl.gov/orise/edu/ornl/orni-pdpm/application.htm>. When applying for this position, please reference the position title and number.

NOTE: Tentative starting date is September-October 2009. Applications will be accepted until July 31, 2009 or until the position is filled.

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.