

# **Postdoctoral or Post-Master's Research Associations in Engineering for Nanostructured Materials Fabrication and Characterization**

**Measurement Science and Systems Engineering Division  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee**

**ORNL08-105-MSSSED**

## **Project Description:**

The Nanosystems and Structures Group in the Measurement Science and Systems Engineering Division (MSSSED) at the Oak Ridge National Laboratory (ORNL) is seeking to identify a postdoctoral and/or post master candidate. MSSSED is seeking engineering graduates with training and experience in nanostructured materials fabrication and characterization. The Nanosystems and Structures Group consists of staff members who develop a variety of nanostructured and superhydrophobic materials through innovative and cost-effective research and development. The selected candidate will conduct research and development in the areas of nanostructured superhydrophobic materials (fabrication and characterization) and drawn nanostructured materials. The candidate will work with researchers in the superhydrophobic & nanostructured materials group, throughout MSSSED, and across ORNL. The candidate will be expected to participate and make presentations at technical conferences associated with professional societies and support the publication of original work in peer-reviewed journals. Over the long term, the candidate will be expected to lead research and development project teams and work directly with sponsors. For additional information on the Measurement Science and Systems Engineering Division click on the following URL: <http://www.ornl.gov/>

## **Qualifications:**

Master's and/or Ph.D. degree required in Engineering or Applied Physics  
The candidate must have a working knowledge of nanostructured superhydrophobic materials and fiber drawing processes. The candidate must have excellent writing skills for preparing reports, proposals, and publications/journal articles, and possess excellent communication skills to effectively give presentations as well as to interface with project sponsors and project teams. The candidate must be a self-starter who knows how to learn and is interested in broadening his/her knowledge. Frequent travel may be required. 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.

Due to the sensitive nature of this research, U.S. citizenship is required.

## **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/ornl-pdpm/application.htm>. Interested candidates need to apply as soon as possible. For technical questions regarding the position, please contact Dr. John Simpson at [simpsonjt@ornl.gov](mailto:simpsonjt@ornl.gov). This appointment is offered through the ORNL Postdoctoral or Postmaster's Research Associates Program and is administered by Oak Ridge Associated Universities (ORAU). This appointment is open to all qualified U.S. without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.