

**Postdoctoral Research Associate in Biophysics
on 3D STEM**

**Materials Science & Technology Division
Physical Sciences Directorate
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL09-100-MSTD

Project Description:

The Microscopy Group in the Materials Science and Technology Division at Oak Ridge National Laboratory (ORNL) has a postdoctoral position available. We are developing 3D scanning transmission electron microscopy, a novel method for obtaining three-dimensional structural information about biological samples. The technology is based on the principles of confocal microscopy but provides higher resolution with the use of an aberration corrected scanning transmission electron microscope (STEM). 3D STEM is a unique alternative for electron tomography with potentially improved capabilities. The project is a collaboration between ORNL and Vanderbilt University Medical Center (VUMC). The position is on 3D STEM imaging, deconvolution, and data analysis.

Qualifications:

A PhD degree is required in physics, biophysics, computer science or related field, in addition to experience with (S)TEM imaging, data processing, software development, plus good communication skills in spoken and written English are essential.

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.

Technical Questions:

Niels de Jonge at dejongen@ornl.gov (Note: Please include the requisition number and title when responding.)

How to Apply:

Qualified applicants may 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 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 without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.