Postdoctoral Research Associate in Atomistic Simulations, Density Functional Theory, and Molecular Dynamics

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

ORNL08–118–MSTD

Project Description:
Position will involve atomistic simulations employing density functional theory and molecular dynamics simulations, possibly in conjunction with Monte Carlo methods, to investigate the effects of irradiation on nuclear fuels and structural materials, and to obtain thermodynamic and physical properties of these materials. Work entails use of large-scale computational modeling employing parallel and serial codes.

Qualifications:
Candidates must have a Ph.D. in Materials Science, Solid State Physics, Nuclear Engineering or related discipline. Good computational and communication skills are required. 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 Questions:
Technical questions regarding the position can be directed to Dr. Roger Stoller, stollerre@ornl.gov.

How to Apply:
Qualified applicants may apply online at https://www2.orau.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.orau.gov/orise/edu/ornl/orni-pdpm/application.htm. When applying for this position, please reference the position title and number.

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.