

Postdoctoral Research Associate in Tribology

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

ORNLO9-113-MSTD

Project Description:

Conduct experimental research and surface characterization to support the development of novel bearing materials and lubricants for energy-efficient applications in ground transportation and in alternative energy, such as wind power. Two main projects will be involved. Both involve tribology – the science and technology of friction, lubrication, and wear. The first involves the development of integrated surface engineering approaches to enhance the durability and fuel-efficiency of lightweight diesel engine bearing components. The second involves the development and testing of advanced ionic liquid lubricants.

Qualifications:

A Ph.D. is required in materials science, mechanical engineering, or equivalent with a graduate work or employment related to tribology. The successful candidate will have a strong research interest in applied science, and an aptitude for interdisciplinary work involving materials science, mechanics, and surface chemistry.

U.S. citizens or permanent residents are preferred.

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:

For technical questions, please contact Peter J. Blau at blaupj@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.