

Post-Master's or Postdoctoral Research Associate in Health Physics/External Dosimetry

**Nuclear and Radiological Protection Division
ESH&Q Directorate
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL09-76-NRPD

Project Description:

The External Dosimetry Program of the Nuclear Radiological Protection Division is looking for a Postmaster's or Postdoctoral staff member to conduct applied technical studies in personnel dosimetry. Duties will include - performing field measurements using various health physics instruments and personnel dosimeters, using thermoluminescent (TLD) dosimeter readers to read dosimeters, and developing and using computational programs and techniques to analyze results.

The selected candidate may be involved in:

- Characterization of neutron radiation fields using neutron dose measuring instruments and personnel dosimeters.
- Setting up a new TLD-based extremity dosimetry system and preparing it for accreditation through the Department of Energy Laboratory Accreditation Program (DOELAP).
- Preparing specifications for and performing verification and validation of the personnel dosimetry database and applications.

Qualifications:

The position requires a Master's or Ph.D. degree in Health Physics or Nuclear Engineering with background in the use of health physics field instruments and computer applications. Research or work experience in personnel dosimetry and proficiency in multi-sphere measurements or the MCNP code is highly desirable.

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.

How to Apply:

Qualified applicants must 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>. 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.