

**Postdoctoral Research Associate in the  
Radiation Transportation & Criticality Group**

**Nuclear Science and Technology Division  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee**

ORNL07-81-NSTD

**Project Description:**

A postdoctoral research associate position is available immediately in the Radiation Transport and Criticality Group at the Oak Ridge National Laboratory. This position will involve research in the use of radiation transport codes in dosimetry calculations for varied nuclear applications. Applicant will participate in the Radiation Safety and Information Computational Center (RSICC) benchmarking efforts for inclusion in RSICC software packages.

**Qualifications: Ph.D. required in computer sciences, engineering, or mathematics and statistics.** The job requires working knowledge and high familiarity with radiation transport software (MCNP, SCALE, etc. as distributed by RSICC) for applications in the medical field, homeland security, nonproliferation, shielding design of nuclear reactors, spent fuel, high level waste characterization, criticality safety and general radiation shielding applications. The work requires a nuclear engineer, physicist or mathematician who has expertise in computer programming. Knowledge of C, C++, JAVA is desirable. The candidate must be familiar with compilers widely used in radiation transport software, operating systems such as Linux, Windows, Macintosh and other Unix-based systems. The candidate will participate in the daily activities of RSICC which include the testing, validation and verification of new or updated software prior to public release, benchmarking, interfacing with the user community, and close interaction with RSICC staff and the international community.

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 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>. When applying for this position, please reference the position title and number (ORNL07-81-NSTD).

This appointment is offered through the ORNL Postdoctoral 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.