

Postdoctoral Research Associates in Large-Scale, High-Performance Code Development

**Computer Science and Mathematics Division
Computer and Computational Sciences Directorate
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL09-32-CSMD

Project Description:

Perform collaborative research and large-scale, high-performance code development for applications such as nuclear fuels and energy storage. Research areas include materials science, fluid flow, algorithms for coupling multiple time and length scales, and methods for solution of coupled non-linear phenomena, depending on application area.

Qualifications:

The successful candidate is expected to have completed their Ph.D. studies. Background in numerical methods, particularly nonlinear finite element or finite volume methods, linear and non-linear algebra, and high-performance computing (large-scale, parallel code development) is highly desirable. Experience with code development in a Unix environment using C and C++ programming languages is required. Knowledge of other languages such as FORTRAN and Python is desirable. Good communication skills are also extremely 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.

Technical Questions:

Contact John A. Turner at turnerja@ornl.gov. Please reference the position title and number when corresponding about this position.

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>. When applying for this position, please reference the position title and number.

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.