

Postdoctoral Research Associate in Computational Mathematics for Hybrid Numerical Methods Development

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

ORNL09-34-CSMD

Project Description:

The Computational Mathematics Group in the Computer Science and Mathematics division at Oak Ridge National Laboratory is looking for Postdoctoral staff to work on developing new hybrid numerical methods that will provide a self-consistent, seamless multidomain description for multiphysics problems. We will be exploring an accurate and robust continuous/discontinuous Galerkin method, and apply this new method to computational fluid dynamics problems.

Qualifications:

The successful candidate is expected to have completed their Ph.D. studies in Applied Math, Computational Science, or a related field. The person should have a strong background in numerical analysis, PDE solvers, finite elements and/or finite volumes, and scientific computing. A background in PDE-constrained optimization and continuum mechanics is desirable. Experience in large-scale parallel code development in C or C++ and the willingness to work in a team environment is essential. 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 Judith C. Hill at hilljc@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.