

Post Master's or Postdoctoral Research Associate in Geospatial Data and Information Sciences [#3]

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

ORNL09-64-CSED

Project Description:

The Geographic Information Science and Technology Group (GIST) in the Computational Sciences and Engineering Division is searching for Postdoctoral staff to conduct analytical studies and research projects involving network modeling, interdependency visualization, parallel geographic processing, and geospatial optimization; disaster impacts on population; spatio-temporal risk analysis, and ontology development directly applicable to current national security, environmental, and other geospatial research issues.

The selected candidate will:

- develop demographic databases
- develop algorithms and models, optimization of the existing algorithms, computational and statistical analysis of geospatial data acquired from nation-wide and international infrastructure databases
- produce conference and journal articles emphasizing the project's research contributions

Qualifications:

The successful candidates is expected to have completed their Master or Ph.D. studies in the field(s) of natural sciences, computer science or computer engineering, industrial engineering, operations research, management science, or related area with strong modeling and optimization experiences. Past industry experience in directing significant data mining and knowledge discovery from sensor data, optimization for high-dimensional data, modeling electric power spatial distribution, economic and decision analysis under uncertainty, and risk assessment of system failures projects is a must.

Applicants cannot have received the most recent degree more than five years prior to the date of application appointment and must complete all degree requirements before starting their appointment.

Technical Questions:

Contact Budhendra Bhaduri at bhaduribl@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. 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.