Opportunity Title: ORNL Post-Master's Research Associate in Web Development
Opportunity Reference Code: ORNL19-62-ESD

Organization	Oak Ridge National Laboratory (ORNL)
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Description Oak Ridge National Laboratory (ORNL) is the largest US Department of Energy (DOE) science and energy laboratory, conducting basic and applied research to deliver transformative solutions to compelling problems in energy, environment, and security.

The Environmental Sciences Division (ESD) of Oak Ridge National Laboratory is seeking a Web Development Post-Master's Research Associate to join the Remote Sensing and Environmental Informatics group (https://www.ornl.gov/group/rsei). The candidate will contribute to the development of web-based tools for the discovery, integration, and visualization of environmental information. The Research Associate will join an enthusiastic team of developers, data scientists, and environmental scientists working in Remote Sensing and Environmental Informatics to provide integrated data products, data management and delivery systems and services, and data analytics to facilitate research, education, and decision-making in the environmental sciences.

Major Duties and Responsibilities:

Contribute to development and enhancement of the ORNL Identify Tool (prototype at https://webmap.ornl.gov/qaqc/identify), the Spatial Data Access Tool (at https://webmap.ornl.gov/ogc), and other web-based tools for integration and visualization of geospatial data.

Qualifications Candidates should be pursuing or have earned a master's degree in computer science, information science, geography, earth and environmental sciences, or related field.

<u>Preferred</u>

- Experience with JavaScript (and popular libraries such as jQuery), HTML, CSS, and AJAX

- Working knowledge of geospatial data formats and projections

- Experience with SQL (e.g. MySQL and PostgreSQL) for the management of geospatial and scientific information systems

- Domain knowledge of environmental science, climate, geography, and/or remote sensing is strongly preferred

- Familiarity with Open Geospatial Consortium (OGC) standards, ArcGIS, and Web Mapping Services

- Experience with web design, usability evaluation, and usage metrics

- Good interpersonal skills and experience working in a collaborative team environment.

Living in East Tennessee: While the opportunity to work at ORNL is an amazing experience in itself, **i**t's easy to overlook everything else East

Tennessee has to offer if you haven't had the opportunity to spend time here. From spending your weekends downtown at Knoxville's farmers market, the Rhythm n' Blooms Music Festival, or the Dogwood Arts Festival, to some of the best hiking, kayaking, and camping in the U.S, East Tennessee has something to offer everyone.

The ORNL Post-Master's Research Associate Program is administered by Oak Ridge Associated Universities through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education (ORISE).

Eligibility Requirements

- **Degree:** Master's Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 👁)
  - **Communications and Graphics Design** (6 👁)
  - **Computer, Information, and Data Sciences** (16 👁)
  - **Earth and Geosciences** (21 👁)
  - **Engineering** (27 👁)
  - **Environmental and Marine Sciences** (14 👁)
  - **Life Health and Medical Sciences** (45 👁)
  - **Mathematics and Statistics** (10 👁)
  - **Other Non-Science & Engineering** (5 👁)
  - **Physics** (16 👁)
  - **Science & Engineering-related** (1 👁)
  - **Social and Behavioral Sciences** (28 👁)

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