

Earth System Modeler: Soil and vegetation biogeochemistry

Environmental Sciences Division

The Terrestrial Systems Modeling Group within the Environmental Sciences Division (ESD) at Oak Ridge National Laboratory is seeking an expert in the development and application of sophisticated numerical models of the interactions of biogeochemistry, water, and energy in the soil/vegetation system, working to implement new knowledge in Earth system models for improved climate prediction. The candidate will work with world-leading experimentalists, field researchers, and Earth system modelers to create a next generation of highly resolved land ecosystem process representations in the context of a state-of-the-art coupled Earth system model for improved climate prediction (the DOE's new Energy Exascale Earth System Model, E3SM).

ESD is an interdisciplinary research and development organization with more than 60 years of achievement in local, regional, national, and international environmental research. Our vision is to expand scientific knowledge and develop innovative strategies and technologies that will strengthen the nation's leadership in creating solutions to help sustain the Earth's natural resources. Our scientists conduct research, develop technology, and perform analyses to understand and assess responses of environmental systems at the environment-human interface and the consequences of alternative energy and environmental strategies.

Why ORNL?

- Access to world class data systems and HPC resources
- Collaborate with others in an exciting team environment
- Contribute to innovative research and development at the intersection of Earth science, experimentation, computation, and data science

For the full job description and to apply, visit: <http://bit.ly/2LwmGFc>

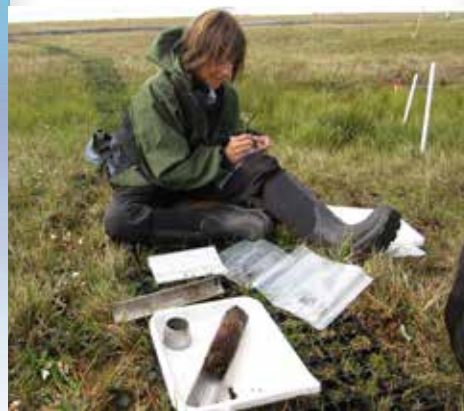
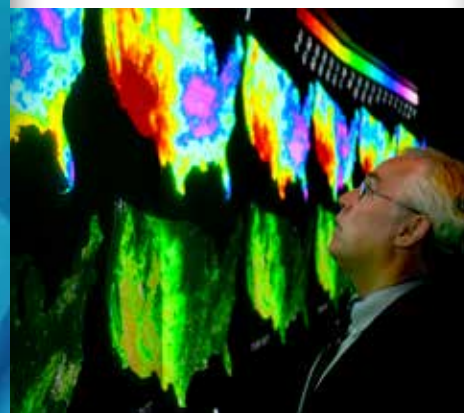
For more Information: <http://www.ornl.gov/division/esd>

Technical Contact

Dr. Peter Thornton,
thorntonpe@ornl.gov

Recruiting Contact

Doug Cross,
crossdr@ornl.gov





About Oak Ridge National Laboratory

As we celebrate ORNL's historical achievements dating back to 1943, our challenge is to build on Alvin Weinberg's notion of a laboratory whose mission evolves and strengthens over time. To that end, we continue to build on ORNL's historic competencies in energy, life sciences, neutron sciences, and advanced materials while adding new research missions in the areas of national security, environmental and biological sciences, and high-performance computing.

Equally important, our staff scientists in collaboration with more than 4,000 visiting researchers annually make new scientific discoveries and develop new technologies. Using ORNL's unique facilities from the Spallation Neutron Source to Titan, one of the world's fastest supercomputers, these scientists keep our laboratory at the forefront of the world's leading scientific research centers.



Community and Culture

The strong partnership between DOE and UT-Battelle, LLC, which manages ORNL for the department, has created a national resource that draws outstanding researchers in a wide range of disciplines to world-class facilities where they tackle fundamental scientific challenges, couple discoveries with applied research, and work with industry to translate results into commercial applications. The work of the laboratory is being performed safely and efficiently in a modern campus setting. Throughout the region ORNL is justifiably regarded as a high-value asset for innovation, education, and economic development.

Discover East Tennessee

East Tennessee offers plenty of wonderful resources and experiences—mountains, rivers, lakes, a full menu of outdoor adventures, championship college teams and minor-league baseball, and the cultural offerings of Knoxville, a city recognized as one of the country's best places to live! ORNL is within a day's drive of 75% of the nation's population and all of the East Coast's major cities.

Our Workforce

With more than 4,500 employees representing more than 80 different countries, we assemble teams of experts from diverse backgrounds, equip them with powerful instruments and research facilities, and address compelling national problems. Home to some of the world's premier scientific facilities, ORNL is a great place to chart your own research course, work with eminent colleagues, and build an extraordinary career.

Business Diversity

Oak Ridge National Laboratory's ability to achieve and maintain a competitive workforce in a rapidly changing business and political environment is greatly influenced by our ability to plan and forecast workforce needs and promote diversity. Maintaining an inclusive environment is a business imperative that focuses on the people in our entire work environment and how to maximize the unique talents of individuals, teams, and business partners to deliver quality products and services for our customers.

