

**Postdoctoral Research Associate
in Energy Modeling and Analysis**

**Energy and Transportation Science Division
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNLO9-101-ETSD

Project Description:

The Center for Transportation Analysis in the Energy and Transportation Science Division (ETSD) at the Oak Ridge National Laboratory (ORNL) is seeking a researcher to collaborate with a research team analyzing policies to reduce the oil dependence of and mitigate greenhouse gas emissions from transportation in the United States. Researchers conduct statistical analyses; build computer simulation and optimization models, and do engineering and economic analyses of energy issues pertaining to the transportation sector. The center conducts research on the potential impacts of advanced technologies and alternative energy policies for the U.S. Department of Energy, the Environmental Protection Agency and other government agencies.

The selected candidate collaborate with other researchers on projects that develop and utilize models of the market transition to hydrogen or electrically powered transportation and other large-scale energy transitions, measure the costs of U.S. oil dependence and analyze how policies could reduce or eliminate oil dependence, and analyze the potential costs and benefits of policies such as fuel economy and emissions standards, low carbon fuel standards, renewable fuels standards, as well as economic instruments such as feebates or carbon cap-and-trade systems.

Qualifications:

Applicants are expected to have a Ph.D. in transportation engineering or transportation economics, and to have demonstrated strong capabilities in computer modeling, optimization, simulation and statistical analysis. Familiarity with transportation energy policy issues in the U.S. and internationally is highly desirable. Creativity and innovativeness in devising novel solutions and research methods is essential. Sound writing and oral communication skills are helpful. No security clearance is required for this position. Travel may be required.

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. Expected duration of these appointments is one year with the possibility of an extension.

Technical Questions:

For technical questions regarding the position, please contact David Green dlgreene@ornl.gov. Please reference the position title and number, when corresponding about this position. For additional information on the Center for Transportation Analysis follow the link below: <http://cta.ornl.gov/cta/>

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>.

This appointment is offered through the ORNL Postgraduate Research Associates Program and is administered by Oak Ridge Associated Universities (ORAU) (<http://www.ornl.gov/orise/edu/ornl/ornl-pd/ornlpdoc.htm>). These positions is open to all qualified candidates without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.