

Opportunity Title: ORNL Quantitative Ecology Post-Master's Research Associate
Opportunity Reference Code: ORNL17-33-ESD

Organization Oak Ridge National Laboratory (ORNL)

Reference Code ORNL17-33-ESD

Description The Environmental Sciences Division is seeking a Post-Master's Research Associate to support quantitative energy-related environmental modeling research at Oak Ridge National Laboratory (ORNL). Opportunities to publish will be available. The position is for one year, with possible renewal for a second year. The research seeks to understand how hydropower and bioenergy influence fish and wildlife, respectively. Project descriptions can be viewed here: web.ornl.gov/~jagerhi/ . Please contact jagerhi@ornl.gov directly to let her know that you have applied.

Current projects include:

- Designing (spatial optimization of) bioenergy landscapes for pheasant in Iowa. This research will involve modifying and running an existing spatially-explicit individual-based model written in C++, working with geospatial data, and summarizing results for publication.
- Refining and producing results using a Bayesian Belief network model describing interactions between forest thinning and wildfire on threatened and endangered salmonids in the Pacific Northwest.

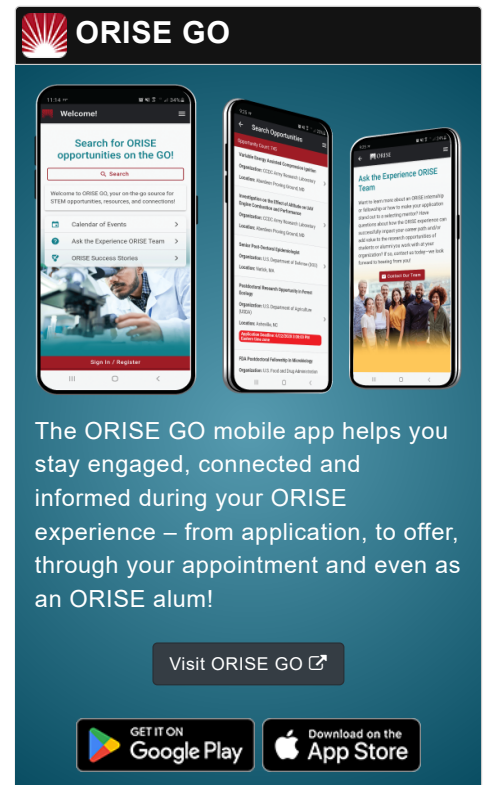
Located near the Great Smoky Mountains National Park and the Big South Fork, ORNL has significant scientific, cultural and natural assets. ORNL is located near the National Institute for Mathematical and Biological Synthesis and the Bredesen Center at the University of Tennessee, Knoxville.

Although listed as a full-time position, part-time candidates will be considered.

Qualifications MS degree in relevant discipline. Coursework in statistics, computer science, ecology/environmental science/fish and wildlife.

The ideal candidate should have strong quantitative skills, an interest in environmental science, and an aptitude for scholarship, including written and oral communication. Experience with using R and coding (e.g., C++, Python) are required. Experience with GIS will also be useful.

The ORNL Postgraduate Research Associates Program is administered by ORAU through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for

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Science and Education (ORISE).

Eligibility Requirements

- **Degree:** Master's Degree received within the last 60 month(s).
- **Discipline(s):**
 - **Communications and Graphics Design** (1 )

Affirmation

I certify that I have completed coursework towards a degree in science, technology, engineering, mathematics, or a related field.

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