

Opportunity Title: Quantitative Ecologist - Post Bachelor's Associate

Opportunity Reference Code: ORNL15-45-ESD



Organization Oak Ridge National Laboratory (ORNL)

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Description We will consider candidates at the post bachelor's level. Coursework in computer science and/or experience with C++ or related language is desirable. Coursework in other quantitative areas (math, statistics), population genetics, and environmental sciences also helpful.

We are seeking a post-bachelor researcher to support quantitative energy-related environmental research at Oak Ridge National Laboratory (ORNL). We are seeking candidates with strong quantitative skills and self-teaching abilities. Experience with a subset of the following: programming in C++ and R, statistics, and optimization. In addition, aptitude for scholarship, written and oral communication, will be considered and opportunities to publish will be available.

Our research seeks to understand how hydropower and bioenergy influence fish and wildlife, respectively:

- Hydropower: Integration of existing fish population models (salmon, sturgeon), running and summarizing simulation results
- Bioenergy: Develop National-scale spatial optimization models to examine trade-offs and complementarities between bioenergy production and wildlife biodiversity. See project descriptions at www.esd.ornl.gov/~zj/










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 at the University of Tennessee, located near thriving downtown Knoxville.

Qualifications Experience with C++ or similar languages
Experience with R
Experience with academic activities such as conducting literature reviews and scientific writing

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

This 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 Science and Education (ORISE). The program is open to all qualified U.S. and non-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

Eligibility Requirements

- **Degree:** Bachelor's Degree received within the last 36 month(s).
- **Discipline(s):**
 - **Business** (1 )
 - **Communications and Graphics Design** (1 )
 - **Computer, Information, and Data Sciences** (2 )
 - **Engineering** (3 )
 - **Environmental and Marine Sciences** (9 )
 - **Life Health and Medical Sciences** (7 )
 - **Mathematics and Statistics** (10 )
 - **Other Non-S&E** (1 )
 - **Social and Behavioral Sciences** (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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