

Opportunity Title: Post-Bachelor's Research Associate in Sustainability Research & Water Quality Modeling

Opportunity Reference Code: ORNL14-42-ESD

Organization Oak Ridge National Laboratory (ORNL)


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Description We seek a quantitative hydrologist or ecologist to contribute to on-going projects in the Environmental Sciences Division at Oak Ridge National Laboratory. One project will involve conducting watershed modeling to support bioenergy sustainability research using the SWAT model. The overarching goal of the research for this project is to understand how the spatial arrangement and management of bioenergy feedstocks (e.g., crops, residues) can lead to sustainable outcomes in terms of biomass yields and profitability, water quality, and biodiversity. The successful candidate will likely participate in other research in areas relating to evaluating climate change effects on water quality and hydropower and/or fish-population modeling.

Qualifications The ideal candidate will have a background in hydrology and experience with modeling tools, possibly including the SWAT watershed model, hydrologic / water quality models of river systems, and CE-QUAL-W2 reservoir model. Experience with other quantitative tools such as R and programming languages, is also very advantageous.

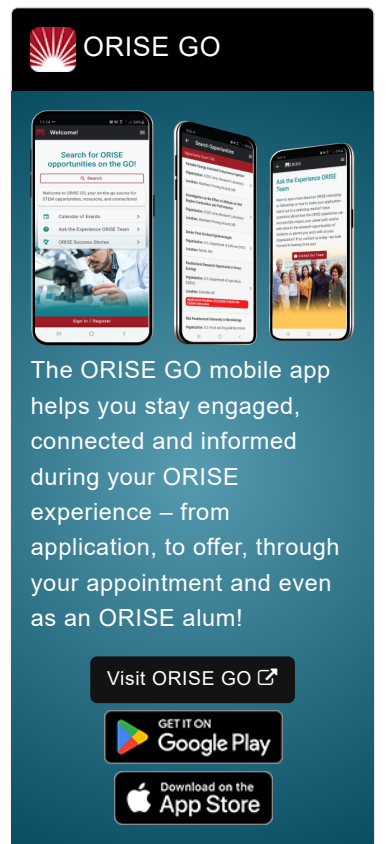
Applicants cannot have received the most recent degree more than three years prior to the date of application and must complete all degree requirements before starting their appointment.

This appointment is offered through the ORNL Postgraduate Research Associates Program and is administered by ORAU through 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):**
 - **Environmental and Marine Sciences** ([13](#) )


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


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