

Opportunity Title: EPA Postdoctoral Fellowship in Environmental Economics

Opportunity Reference Code: EPA-ORD-CPHEA-PESD-2021-02

Organization U.S. Environmental Protection Agency (EPA)

Reference Code EPA-ORD-CPHEA-PESD-2021-02

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A complete application consists of:

- An application
- Transcript(s) – For this opportunity, an unofficial transcript or copy of the student academic records printed by the applicant or by academic advisors from internal institution systems may be submitted. All transcripts must be in English or include an official English translation. Click [here](#) for detailed information about acceptable transcripts.
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- Two educational or professional recommendations. Click [here](#) for detailed information about recommendations.

All documents must be in English or include an official English translation.

Application Deadline 1/31/2022 3:00:00 PM Eastern Time Zone

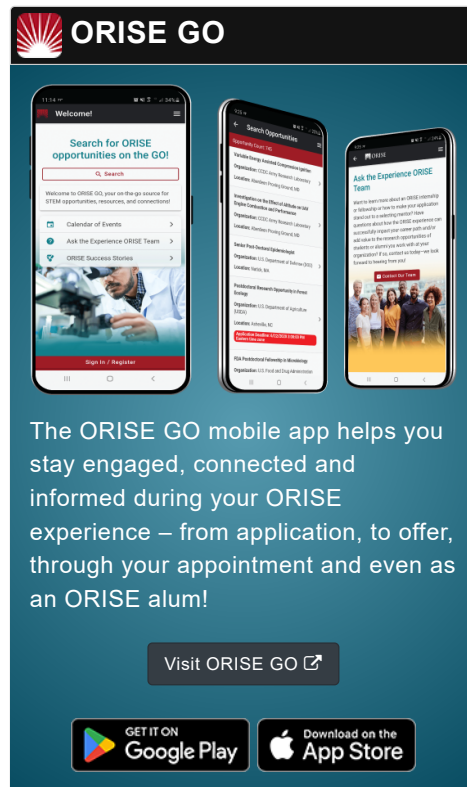
Description ***Applications may be reviewed on a rolling-basis and this posting could close before the deadline.** Click [here](#) for information about the selection process.

EPA Office/Lab and Location: A research training opportunity is available at the Environmental Protection Agency (EPA), Office of Research and Development (ORD), Center for Public Health and Environmental Assessment (CPHEA), Pacific Ecological Systems Division (PESD) in Corvallis, Oregon.

Research Project: This project is part of a larger agency-wide effort to improve the capacity to evaluate environmental protection policies and to estimate economic benefits associated with the protection of water and other aquatic resources. The research participant will have the opportunity to collaborate closely with principal investigators within the ORD/PESD laboratory in Corvallis, Oregon and with colleagues at the National Center for Environmental Economics and the Office of Water in Washington, D.C. to assist in the development of a nonmarket valuation study focused on estimating the effect of water quality on several housing markets across the country. This research project will explore how preferences for environmental amenities vary across markets and sociodemographic dimensions.

The research participant will have the opportunity to:

- Assist the development of analytical approaches that contribute to the capacity to evaluate economic benefits



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resulting from environmental protection.

- Collaborate with an interdisciplinary team of researchers on the development and implementation of a nationwide study examining the effects of water quality on housing values.
- Learn how to collect and manage large spatially-explicit datasets that combine parcel-level property value data with water and natural amenity characteristics derived from satellite imagery and other large data repositories.
- Assist in the development of econometric models using quasi-experimental designs that are focused on both the internal and external validity of the results.
- Summarize research findings in the form of peer-reviewed journal articles, oral presentations, and reports to the EPA and other stakeholders.

Learning Objectives: Throughout this project, the participant will further develop skills to:

- Identify challenging data-analytics and statistical issues and potential solutions.
- Collect and combine large datasets – structured and unstructured – from different sources.
- Conduct cleaning, validation, exploratory analysis of data to identify appropriate solutions.
- Build and apply statistical models and algorithms to answer policy relevant questions.
- Further develop programming and coding skills in R and Python.
- Construct projects that are accessible, replicable and easily understood by wider audiences.

Mentor(s): The mentor for this opportunity is Michael Papenfus (papenfus.michael@epa.gov). Michael is an environmental economist with EPA's Office of Research and Development, Center for Public Health and Environmental Assessment. His current research focuses on estimating the economic benefits associated with protecting water quality, wild salmon populations, and human health. Michael holds a Ph.D. in environment and resources (environmental economics) from the University of Wisconsin, Madison. If you have questions about the nature of the research please contact the mentor for more information.

Anticipated Appointment Start Date: Fall 2021/ Winter 2022.

All start dates are flexible and vary depending on numerous factors. Click [here](#) for detailed information about start dates.

Appointment Length: The appointment will initially be for one year and may be renewed up to four additional years upon EPA recommendation and subject to availability of funding.

Level of Participation: The appointment is full-time.

Participant Stipend: The participant will receive a monthly stipend commensurate with educational level and experience. Click [here](#) for detailed information about full-time stipends.

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EPA Security Clearance: Completion of a successful background investigation by the Office of Personnel Management (OPM) is required for an applicant to be on-boarded at EPA.

ORISE Information: This program, administered by ORAU through its contract with the U.S. Department of Energy (DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and EPA. Participants do not become employees of EPA, DOE or the program administrator, and there are no employment-related benefits. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE.

Questions: Please see the [FAQ section](#) of our website. After reading, if you have additional questions about the application process please email ORISE.EPA.ORD@ornl.gov and include the reference code for this opportunity.







Qualifications

The qualified candidate should have received a doctoral degree in one of the relevant fields, or be currently pursuing the degree and will reach completion by December 31, 2021. Degree must have been received within five years of the appointment start date.

Preferred skills:

- Knowledge of environmental and resource economics.
- Experience in non-market valuation and demonstrated ability to apply a variety of econometric and statistical
- methods.
- Excellent programming skills, especially in R or Python, along with ability to combine and work with spatially-explicit datasets.
- Strong scientific writing and presentation skills.
- Interpersonal skills to work effectively as part of a research team.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree received within the last 60 months or anticipated to be received by 12/31/2021 11:59:00 PM.
- **Discipline(s):**
 - **Computer, Information, and Data Sciences** (3 )
 - **Engineering** (3 )
 - **Environmental and Marine Sciences** (3 )
 - **Life Health and Medical Sciences** (2 )
 - **Mathematics and Statistics** (2 )
 - **Social and Behavioral Sciences** (4 )
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).