

Opportunity Title: EPA Postdoctoral Fellowship in Integrated Environmental Modeling

Opportunity Reference Code: EPA-ORD-CEMM-WECD-2021-04

Organization U.S. Environmental Protection Agency (EPA)

Reference Code EPA-ORD-CEMM-WECD-2021-04

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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 9/30/2021 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 opportunity is available at the Environmental Protection Agency (EPA), Office of Research and Development (ORD), Center for Environmental Measurement and Modeling (CEMM), Watershed and Ecosystem Characterization Division (WECD) located in Research Triangle Park, North Carolina.

Safe and Sustainable Water Resources (SSWR) Research Program is one of the EPA ORD's national research programs. One of the important research areas under the SSWR is "Nutrients and Harmful Algal Blooms". While EPA has made great efforts toward reducing nutrient pollution nationwide, we continue to be challenged to consider the appropriate spatial and temporal context for reductions and alternative practices for tracking interventions to meet nutrient reduction goals in a comprehensive manner.

Research Project: This research opportunity, Integrated Environmental Modeling, is comprised of two broad components: 1) Develop and application of state of the science for nutrient study, and 2) seek and evaluate effectiveness of various mitigation practices for water quality improvement.

Learning Objectives: The research participant will have the opportunity to learn model development and application to better understand nutrient source, fate and transport in the large river basins, as well as seeking the most effective alternative practices for minimizing the environmental impacts of different anthropogenic activities (e.g. land use/land management practices) leading to the sustainability of surface and subsurface water resources.

Mentor(s): The mentor for this opportunity is Dr. Yongping Yuan (yuan.yongping@epa.gov). If you have questions about the nature of the research please contact the mentor(s).



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Anticipated Appointment Start Date: Summer 2021 or as soon as a suitable candidate is found. 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.








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 the appointment start date. Degree must have been received within five years of the appointment start date.

Experience with geographic information systems and hydrological and water quality modeling is desirable.

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Doctoral Degree received within the last 60 months or anticipated to be received by 8/31/2021 11:59:00 PM.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([2](#) )
 - **Computer, Information, and Data Sciences** ([4](#) )
 - **Earth and Geosciences** ([3](#) )
 - **Engineering** ([5](#) )
 - **Environmental and Marine Sciences** ([3](#) )
 - **Life Health and Medical Sciences** ([4](#) )
 - **Mathematics and Statistics** ([10](#) )

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- **Veteran Status:** Veterans Preference, degree received within the last
120 month(s).