

Opportunity Title: EPA Fellowship on Treatment and Water Quality of Drinking Water Systems

Opportunity Reference Code: EPA-ORD-CESER-WID-2023-04

Organization U.S. Environmental Protection Agency (EPA)

Reference Code EPA-ORD-CESER-WID-2023-04

How to Apply *Connect with ORISE...on the GO!* Download the new ORISE GO mobile app in the [Apple App Store](#) or [Google Play Store](#) to help you stay engaged, connected, and informed during your ORISE experience and beyond!

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 12/8/2023 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 Solutions and Emergency Response (CESER), Water Infrastructure Division (WID) located in Cincinnati, Ohio.

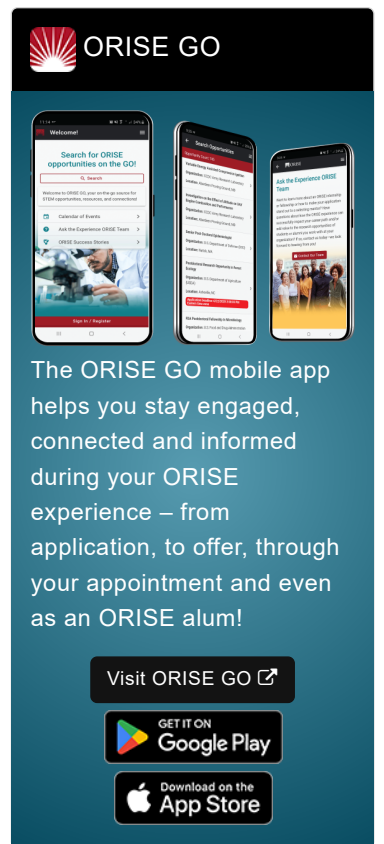
Research Project: This research project will investigate biological and chemical treatment of drinking water. Aerobic and anoxic biological treatment of drinking water contaminants, such as manganese and nitrate, will be investigated at bench- and pilot-scale. Treatment technologies for contaminants of emerging concern, such as lithium and manganese, will be evaluated through bench experiments and sampling of full-scale water treatment plants.

Under the guidance of a mentor, research activities may include:

- Sample collection and handling
- Water quality analyses
- Reactor design and operation
- Data analysis and interpretation


Learning Objectives: Learning objectives for this opportunity include:


- Understanding how reactor design and operation impact microorganisms for the biological treatment of drinking water.
- Understanding how to connect contaminant physical/chemical/biological




ORISE GO

The ORISE GO mobile app helps you stay engaged, connected and informed during your ORISE experience – from application, to offer, through your appointment and even as an ORISE alum!

Visit ORISE GO 

GET IT ON
 Google Play

Download on the
 App Store

Opportunity Title: EPA Fellowship on Treatment and Water Quality of Drinking

Water Systems

Opportunity Reference Code: EPA-ORD-CESER-WID-2023-04

properties to treatment mechanisms and processes.

- Developing skills to analyze and interpret data and communicating results.

Mentor(s): The mentor for this opportunity is Asher Keithley (keithley.asher@epa.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: October 1, 2023 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 three 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@orau.org and include the reference code for this opportunity.

Qualifications The qualified candidate should have received a bachelor's degree in one of the relevant fields, or be currently pursuing the degree with completion before the appointment start date. Degree must have been received within two years of the appointment start date.

Preferred skills/experience:

- Ability to analyze data using Microsoft Excel, R, or other tools
- Experience writing technical documents or journal articles
- Experience preparing and delivering PowerPoint presentations
- Coursework and lab work related to chemistry, microbiology, molecular biology, genetics and/or civil/environmental/chemical/biological engineering principles or related fields

Eligibility Requirements






- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree received within the last 24 months or

Opportunity Title: EPA Fellowship on Treatment and Water Quality of Drinking Water Systems

Opportunity Reference Code: EPA-ORD-CESER-WID-2023-04

anticipated to be received by 10/1/2023 11:59:00 PM.

• **Discipline(s):**

- **Chemistry and Materials Sciences** ([2](#) )
- **Earth and Geosciences** ([2](#) )
- **Engineering** ([4](#) )
- **Environmental and Marine Sciences** ([3](#) )
- **Life Health and Medical Sciences** ([5](#) )