

of the Great Lakes

Opportunity Reference Code: EPA-REG5-GLNPO-2021-01

Organization U.S. Environmental Protection Agency (EPA)

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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 10/15/2021 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.

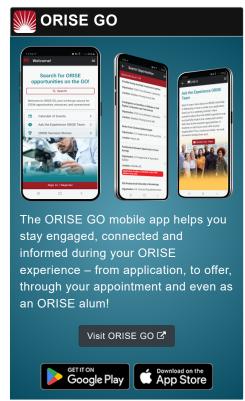
EPA Office/Lab and Location: A research project training opportunity is available with the U.S. Environmental Protection Agency's (EPA) Great Lakes National Program Office (GLNPO) in Chicago, Illinois.

GLNPO coordinates U.S. efforts with Canada under the Great Lakes Water Quality Agreement (GLWQA) to restore and maintain the chemical, physical and biological integrity of the Great Lakes Basin Ecosystem. GLNPO brings together federal, state, tribal, local, and industry partners under the strategic framework of the Great Lakes Restoration Initiative (GLRI) to accomplish the objectives of GLRI action plan which in turn fulfills the aims of the GLWQA. For more information about the Great Lakes Monitoring programs, please visit: https://www.epa.gov/great-lakes-monitoring

Research Project: Research opportunities at GLNPO allow participation in many facets of planning, implementation, assessment, and reporting of Great Lakes basin monitoring, restoration, and remediation. The description below contains partial, but not complete, lists of developmental activities each project may include:

1. Science, Monitoring, Evaluation, and Reporting







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GLNPO has a fundamental role to collect and disseminate data on the physical, chemical, and biological condition of the Great Lakes.

The specific activities in which GLNPO engages are determined in large measure by the data and information needed to support the GLWQA, Lakewide Action and Management Plans, and other specific needs of our federal, state, and tribal partners to implement the GLRI.

- Great Lakes Monitoring Program Support. This project involves conducting data review, statistical data analysis, drafting technical reports, and updating websites, as well as researching and writing content for fact sheets and other media to communicate technical topics to the public.
- GLWQA State of the Great Lakes Reporting. This project involves participating with U.S. and Canadian teams to prepare State of the Great Lakes reports. Project elements that the participant may be involved in could include scientific literature searches and identification of sources of environmental data, development of Great Lakes environmental indicators and indices, collection and analysis of environmental data, preparation of reports on environmental indicators, and preparation of oral and visual presentations.

Additionally, the participant selected within GLNPO is required to be available to participate in the following:

 Great Lakes Sampling aboard the R/V Lake Guardian. Since 1983, GLNPO has monitored the chemistry and biology of the Great Lakes using the 180-foot research vessel R/V Lake Guardian. Water samples are collected and analyzed for nutrients and standard limnological parameters. Phytoplankton, zooplankton and benthos samples are collected and analyzed to assess the status of the lower food web. Opportunities will be available to be involved in: measuring water quality parameters, preparing samples for nutrient analysis, collecting and reviewing sensor data, statistical analysis of data, conducting outreach, and preparing reports. Note: participation in field sampling requires living onboard the R/V Lake Guardian from a few days up to several weeks on any or all of the Great Lakes, as well as physical abilities and stamina (to be able to stand and navigate throughout the ship during inclement weather).

Learning Objectives:

- Develop knowledge about the many complex elements of the Great Lakes ecosystem
- · Increase skills in data analysis and reporting
- Learn the many facets required to plan and implement a complex project
- Develop skills and responsibilities associated with being part

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of a team potentially consisting of other federal, state, tribal, and even international partners

- · Develop skills to coordinate scientific projects
- Obtain professional contacts throughout the Great Lakes scientific community
- · Increase field methodology skills
- · Increase personal sense of professional responsibility

<u>Mentor(s)</u>: The mentor for questions about this opportunity is Ben Alsip (Alsip.benjamin@epa.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: November 2021. All start dates are flexible and vary depending on numerous factors. Click here for detailed information about start dates.

<u>Appointment Length</u>: The appointment may initially be for one year and may be renewed up to three 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. Funding may be made available to reimburse the participant's travel expenses to present the results of his/her research at scientific conferences. No funding will be made available to cover travel costs for pre-appointment visits, relocation costs, tuition and fees, or participant's health insurance.

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

ORISE offers all ORISE EPA graduate students and Postdocs a free 5 year membership to the National Postdoctoral Association (NPA).

Questions: Please see the FAQ section of our website. After reading, if you have additional questions about the application process please email ORISE.EPA.REG@orau.org and include the reference code for this opportunity.

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Qualifications

The qualified candidate should have received a bachelor's or master's degree in environmental science, limnology, biology, chemistry, natural resources, environmental engineering, or related fields within five years of the starting date, or completion of all requirements for the degree should be expected prior to the start date.

Preferred skills:

- Experience in field work (biological and chemical sampling of lakes)
- Basic knowledge of the Great Lakes basin ecosystems
- · Demonstrated technical writing skills
- Experience communicating technical topics to a nontechnical audience
- Independent research experience (e.g., undergraduate or graduate research project)
- Field sampling and analysis in freshwater and/or marine environments
- GIS (including scripting, Python)
- Familiarity with data processing software (e.g., R, Matlab)
- · Database management
- · Spreadsheet manipulation

Applicants should be able to participate in occasional travel from a few days up to several weeks on any or all of the Great Lakes.

Eligibility Requirements

- Citizenship: U.S. Citizen Only
- **Degree:** Bachelor's Degree or Master's Degree received within the last 60 months or anticipated to be received by 12/31/2021 11:59:00 PM.
- Discipline(s):
 - Chemistry and Materials Sciences (9 ●)
 - Computer, Information, and Data Sciences (3
 - Earth and Geosciences (21 ⑤)
 - Engineering (1 <
 - Environmental and Marine Sciences (14 ●)
 - \circ Life Health and Medical Sciences (17 $\textcircled{\bullet}$)
 - Mathematics and Statistics (1)
 - ∘ Physics (1 **③**)
 - Social and Behavioral Sciences (1
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).