

Opportunity Title: Drinking Water Data Research
Opportunity Reference Code: EPA-NSSC-0008-8-07-27-20

Organization U.S. Environmental Protection Agency (EPA)

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How to Apply **Ready to send share your interest with EPA scientists?**

- Submit application and supporting documents by clicking on Apply Now button.
- *For more information, contact* EPAjobs@orau.org. Do not contact EPA directly.
- Check out our website at:
<https://www.orau.org/epa/jobs.html>

Description The EPA National Student Services Contract has an immediate opening for a full time Drinking Water Data Research position with the Office of Research and Development at the EPA facility Cincinnati, OH.

The Office of Research and Development at the EPA supports high-quality research to improve the scientific basis for decisions on national environmental issues and help EPA achieve its environmental goals. Research is conducted in a broad range of environmental areas by scientists in EPA laboratories and at universities across the country.

What the EPA project is about


The Center for Environmental Solutions and Emergency Response (CESER) plans, coordinates and conducts an applied, customer-driven, national research and development program to improve decision making by EPA, federal, state, tribal and local agencies, when faced with challenging environmental problems in the built environment. Within CESER, the Water Infrastructure Division (WID) conducts customer-driven research and support, providing scientific leadership on national-scale problems associated with water quality in the built infrastructure.


What experience and skills will you gain?

WID has two particularly active research areas: drinking water distribution system issues and drinking water treatment systems for small communities. Research is being conducted to provide scientific information needed to support the Lead and Copper Rule revisions, includign work on water chemistry, water treatment and corrosion control, and analysis of the morphology, mineralogy and chemistry characterization of water pipes. This research provides information to states and communities about issues that affect public health everyday.

How you will apply your skills



As a team member, you will provide data management and data analysis support to WID staff by completing the research


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activities described below:

- Compiling data contained in Word documents, Excel spreadsheets, photographs, jpg image files, ascii text files, etc. into a single format (typically, Excel or Access);
- Assisting with quality control of data;
- Assisting with literature reviews, gathering reference materials from textbooks, journals, libraries, the Internet, other researchers. Compile EndNote database of relevant publications;
- Performing simple statistical and graphical summaries of data, such as mean, median, sum, standard deviation, line graphs, bar charts, percent probability, and box plots;
- Developing scripts or macros/functions to provide reports on the data;
- Preparing tables, figures, and graphics for using software such as Microsoft Office, Sigma Plot, Origin, Adobe Acrobat, or other similar tools;
- Assisting with formatting of reports, presentations and articles; and
- Interacting with EPA scientists and members of an interdisciplinary team.

You will perform duties according to specifications and instructions provided by the mentor. All necessary instructions and training will be provided by the EPA mentor.

Required Knowledge, Skills, Work Experience, and Education

- A working knowledge of relational databases;
- Proficiency with Microsoft Office applications (i.e., Excel, PowerPoint, Word and Outlook), desktop publishing; and
- Strong written, oral and electronic communication skills.

Desired Knowledge, Skills, Work Experience, and Education

- Experience using commercial scientific graphics and statistical analysis software packages and Adobe Creative Suite is desired, but not required.

Location: This job will be located EPA's facility in Cincinnati, OH.

Salary: Selected applicant will become a temporary employee of ORAU and will receive an hourly wage of \$22.19 for hours worked.

Hours: Full-time

Expected start date: The position is full time and expected to begin August 2020. The selected applicant will become a temporary employee of ORAU working as a contractor to EPA. The initial project is through May 14, 2021, with up to 4

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additional potential optional periods.









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Qualifications

- Be at least 18 years of age **and**
- Have earned at least a Bachelor's degree in statistics, mathematics, chemistry, physics, geology, computer science, information science, operations research, environmental engineering, chemical engineering, biological engineering, materials engineering, civil engineering or a closely related field of study from an accredited university or college within the last 24 months **and**
- Be a citizen of the United States of America or a Legal Permanent Resident.

EPA ORD employees, their spouses, and children are not eligible to participate in this program.

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 24 months or anticipated to be received by 7/9/2020 11:59:00 PM.
- **Overall GPA:** 2.00
- **Discipline(s):**
 - **Chemistry and Materials Sciences** (12 )
 - **Computer, Information, and Data Sciences** (16 )
 - **Earth and Geosciences** (21 )
 - **Engineering** (27 )
 - **Environmental and Marine Sciences** (3 )
 - **Life Health and Medical Sciences** (45 )
 - **Mathematics and Statistics** (10 )
 - **Physics** (16 )

Affirmation

I certify that I am at least 18 years of age; a recent graduate with at least a Bachelor's degree in statistics, mathematics, chemistry, physics, geology, computer science, information science, operations research, environmental engineering, chemical engineering, biological engineering, materials engineering, civil engineering or a closely related field of study from an accredited university or college within the last 24 months; a citizen or a Legal Permanent Resident of the United States of America; and not a current employee of EPA ORD or the spouse or child of an EPA ORD employee.

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