

Opportunity Title: Inorganic Bioavailability Assessment Research

Opportunity Reference Code: EPA-SSP-0027-23

Organization U.S. Environmental Protection Agency (EPA)

Reference Code EPA-SSP-0027-23

How to Apply Submit application and supporting documents by clicking on Apply Now button.

For more information, contact EPAjobs@orau.org.

Check out our website at: orau.org/epa/

Description The EPA Environmental Research and Business Support Program has an immediate opening for a full-time Inorganic Bioavailability Assessment Research position with the EPA facility in Research Triangle Park, NC.

What the EPA project is about


EPA's National Exposure Research Laboratory (NERL) supports EPA's mission to protect human health and the environment by developing and applying innovations in exposure science. NERL is internationally recognized as the leader in environmental exposure science. Our multidisciplinary expertise enables the laboratory to bring cutting-edge research and technology to the field of exposure science to address the Agency's priority environmental problems. Supporting this effort includes method development and evaluation for assessing human health oral bioavailability of inorganic contaminants.


What you will be doing

As a team member you will conduct laboratory work, generate and organize laboratory data, perform data reduction, perform literature reviews, and interface with experts in the respective technical specialties. As a team member you will work on extractions and methods refinement for inorganic metals analysis using analytical equipment such as Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES). Resulting data will be entered into laboratory database(s) and reports generated. Data generation will also include performing literature searches for scientific journals and entering these journal articles into an Endnote database. As a team member you will maintain careful and accurate records in designated laboratory notebooks. These notebooks and all other data produced under this order will be the property of the Environmental Protection Agency.

Required skills


- Academic training/work experience in conducting inorganic analysis and extractions
- General skills/experience in laboratory work


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- A working knowledge of analysis of extracts and samples using analytical equipment such as Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES)
- Excel software skills for data entry and descriptive statistical analyses (i.e., mean, standard deviation, minimum, maximum, median, etc)
- Strong written, oral and electronic communication skills
- Basic safety requirements in the laboratory (additional safety training will be provided).

How you will apply your skills

- Methods development and analyses using an extraction test to assess the potential bioavailability of soil inorganics
- Performing inorganic metal extractions for biological tissues
- Preparation of analytical calibration and quality control standards
- Analysis of extracts using Inductively Coupled Plasma-Optical Emission Spectrometry (ICPOES)
- Conducting descriptive statistical analyses (i.e., mean, standard deviation, minimum, maximum, median, etc)
- Refinement of standard operating procedures
- Data generation will also include performing literature searches for scientific journal articles and entering these journal articles into an Endnote database collecting, processing, compiling and organizing data or other information into databases/spreadsheets using a variety of Windows-based software (e.g., Microsoft Excel/Word/Access, EndNote, WordPerfect, etc)
- Resulting data will be entered into laboratory database and reports generated
- Using general laboratory skills and keeping laboratory notebooks.

Location: This job will be located EPA's Research Triangle facility in Raleigh-Durham, NC.

Salary: Selected applicants will become temporary employees of ORAU and will receive an hourly wage of \$21.59 for hours worked.

Hours: Full time

Travel: No travel is required.

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Expected start date: The position is full time and expected to begin September 2019. The initial project is through May 14, 2020, with potential options periods.

Working conditions: You will be supervised by a mentor who will provide day-to-day direction, as well as coach, advise, counsel and review your work. The position will involve work in an administrative setting and is not expected to involve exposure to hazardous elements.




For more information, contact EPAjobs@ornl.gov. Do not contact EPA directly.

Qualifications

- Be at least 18 years of age and
- Have earned a Bachelor's degree in in an environmentally related discipline such as chemistry, environmental science, biochemistry or chemical 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 or Master's Degree received within the last 24 month(s).
- **Overall GPA:** 2.00
- **Discipline(s):**
 - **Chemistry and Materials Sciences** (12 )
 - **Engineering** (27 )
 - **Environmental and Marine Sciences** (13 )

Affirmation

I certify that I am at least 18 years of age; a recent graduate with a Bachelor's degree in in an environmentally related discipline such as chemistry, environmental science, biochemistry or chemical 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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