

Opportunity Title: Metabolomics Lab Technician at EPA (Part-Time)

Opportunity Reference Code: EPA-NSSC-0007-87-7-18-23

Organization U.S. Environmental Protection Agency (EPA)

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How to Apply Click [HERE](#) to apply!

Description The EPA National Student Services Contract has an immediate opening for a part time Metabolomics Lab Technician at EPA position with the Office of Research and Development at the EPA facility in Athens, Georgia.

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 Measurement and Modeling (CEMM) conducts research to advance the Agency's ability to measure and model contaminants in the environment, including research to provide fundamental methods and models needed to implement environmental statutes. CEMM researchers use state-of-the-art targeted and non-targeted analytical methods to generate data on the presence, concentration levels, and ecological effects of emerging priority chemical contaminants and their degradants in natural and built environments. This data is used to evaluate and prioritize chemical and nonchemical stressors based on the potential for human and ecological exposure, health impacts, and ecosystem degradation.

What experience and skills will you gain?

As a team member, you will conduct laboratory work, generate, and organize laboratory data, perform data analysis, and interface with experts in the respective technical specialties. The team member provide analytical laboratory support and analytical assistance to the ORD-Athens mass spectrometry laboratory in support of the Metabolomics team. The team member will be under the mentorship of CEMM researchers for training in liquid chromatography (LC) and high-resolution accurate mass (HRAM) mass spectrometry (MS) systems. The candidate will assist laboratory researchers with maintenance of the laboratory, sample processing and inventory management, routine data analysis, and some administrative support functions. The team member 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.

How you will apply your skills

Analytical and Laboratory support tasks will include:

- Maintaining, managing, and organizing laboratory facilities, samples, supplies, and reagents



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- Preparation of standard solvents and solutions
- Routine instrument calibrations
- Receiving and logging of biological/environmental samples
- Processing of received samples for LC-MS analysis
- Conducting experiments using liquid chromatography and HRAM-MS methods. Experiments will be planned by consulting with research investigators regarding sample preparation, analyte detection and (semi-)quantification, and data quality control methods
- Maintaining records and documentation associated with the conduct of these experiments, in accordance with Quality Assurance plans

Communications-related responsibilities will include:

- Participating as a member of a multi-disciplinary research team
- Presenting data summaries and results to EPA team members
- Assisting in the preparation of analysis summary documents such as manuscripts, presentations, fact sheets, and reports.
- Documenting daily laboratory activities in designated laboratory notebooks
- Presenting work performed at a scientific conference as required.

Required Knowledge, Skills, Work Experience, and Education

- At least one year's experience in graduate school performing (semi-)quantitative chemical analysis including at least 16 hours of laboratory procedures such as pipetting, sample extractions, chromatography, and/or mass spectrometry;
- Working knowledge of physiochemical separation by liquid chromatography and detection by HRAM mass spectrometry;
- Prior experience working with environmental and/or biological samples;
- Experience using at least one of the following: R, Python, and/or Microsoft Excel, to summarize and manipulate data files, manage data, prepare graphics, and conduct basic data analysis such as summary statistics;
- Strong written, oral, and electronic communication skills.

Desired Knowledge, Skills, Work Experience, and Education

- Experience using at least one of the following: Thermo software Xcalibur, Chromeleon, SII, Compound Discoverer, and/or Proteome Discoverer; Agilent software MassHunter and/or Mass Profiler Professional; Waters software UNIFI, Progenesis QI, and/or MassLynx.

Location: This job will be located EPA's facility in Athens, Georgia

Salary: Selected applicant will become a temporary employee of ORAU and will receive an hourly wage of \$27.67 for hours worked.

Hours: Part-Time. Up to 15 hours per week.

Travel: Occasional overnight travel may be required.

Expected start date: The position is part time and expected to begin August 2023. The selected applicant will become a temporary employee of

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ORAU working as a contractor to EPA. The contract renews each May through 2025.

For more information, contact EPANSSC@orau.org. Do not contact EPA directly.

- Qualifications**
- Be at least 18 years of age **and**
 - Have earned at least a bachelor's degree from an accredited institution in biology, chemistry, bioinformatics, toxicology, environmental science, or a closely related field of study plus one year of graduate school 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 received within the last 24 month(s).
 - **Overall GPA:** 2.00
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#))
 - **Communications and Graphics Design** ([2](#))
 - **Computer, Information, and Data Sciences** ([17](#))
 - **Earth and Geosciences** ([21](#))
 - **Engineering** ([27](#))
 - **Environmental and Marine Sciences** ([14](#))
 - **Life Health and Medical Sciences** ([48](#))
 - **Mathematics and Statistics** ([11](#))
 - **Physics** ([16](#))
 - **Science & Engineering-related** ([2](#))
 - **Social and Behavioral Sciences** ([28](#))

Affirmation I certify that I am at least 18 years of age; a recent graduate with at least a Bachelor's degree from an accredited institution in biology, chemistry, bioinformatics, toxicology, environmental science, or a closely related field of study plus one year of graduate school 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.