Opportunity Title: Exposure Data Analyst at EPA
Opportunity Reference Code: EPA-NSSC-0009-23-1-19-22

Organization	U.S. Environmental Protection Agency (EPA)
Reference Code	EPA-NSSC-0009-23-1-19-22
How to Apply	Click **HERE** to apply.
Description	The EPA National Student Services Contract has an immediate opening for a full time Exposure Data Analyst position with the Office of Research and Development at the EPA facility in Research Triangle Park, NC.

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 Computational Toxicology and Exposure (CCTE) supports ORD by providing solutions-driven research to rapidly evaluate the potential human health and environmental risks due to exposures to environmental stressors and ensure the integrity of the freshwater environment and its capacity to support human well-being. CCTE researchers are developing and applying cutting edge innovations in methods to rapidly evaluate chemical toxicity, transport, and exposure to people and environments. Within CCTE, the Chemical Characterization and Exposure Division (CCED) performs research to develop and advance analytical chemistry, computational chemistry, and cheminformatic approaches that are critical to the rapid characterization of the presence, structural characteristics, and properties of chemicals that underlie chemical exposure, environmental fate, toxicokinetics and toxicity.

What experience and skills will you gain?

As a team member, you will support research under the Chemical Safety for Sustainability (CSS) research program on modeling of human exposure to chemicals. You will assist with data organization and extraction needs, including acquisition and development of datasets documenting transformation relationships between chemicals, development of semi-automated protocols for data identification and collection, basic summaries and analyses of data, and extraction and curation of data from original sources. Your work may include gathering additional datasets from online sources, formatting datasets into standard templates and uploading into databases, applying out-of- the-box thinking to improve automation data collection, testing and evaluating ease-of-use of software, and completing QA workflows to ensure data quality and provenance.

General Responsibilities

- Collecting, curating, and organizing data in databases on chemical transformations including relevant metadata (e.g., observed media,

transformation rates);

- Responding to data requests from colleagues as needed (e.g. retrieve data according to specified criteria) through development of programming scripts or SQL queries; and
- Developing novel models and text analytics methods for identifying data sources with chemical transformation data.

Communications-related responsibilities

- Participate as a member of a multi-disciplinary research team;
- Interact with other members of the development team as well as EPA scientists;
- Thoroughly document all work as directed by EPA mentor to comply with EPA quality assurance procedures for transparency and reproducibility of work; and
- Summarizing work in internal reports/memos to be used by EPA scientists.

Required Knowledge, Skills, Work Experience, and Education

- Experience programming in the R and/or Python language;
- Experience with quantitative techniques, basic statistics, and use of spreadsheets;
- Strong reading comprehension skills and experience logically interpreting pieces of data; and
- Experience with databases (e.g. MySQL, PostgreSQL).

Desired Knowledge, Skills, Work Experience, and Education

- Experience with computational or mathematical modeling and/or data science techniques in any discipline and
- Master's coursework in the following: statistics, data science, machine learning, user experience and design, and data analysis.

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

Salary: Selected applicant will become a temporary employee of ORAU and will receive an hourly wage of $30.16 for hours worked.

Hours: Full-time.

Expected start date: The position is full time and expected to begin March 2022. The selected applicant will become a temporary employee of ORAU working as a contractor to EPA. The option year renews May of each year through May, 14, 2025.

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

Qualifications
- Be at least 18 years of age **and**

- Have earned at least a Master's degree in physics, chemistry, biology, engineering, applied sciences, environmental health, public health, exposure science, computer sciences, information technology, data science, 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:** Master's Degree received within the last 24 month(s).
- **Overall GPA:** 2.00
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 👁)
  - **Computer, Information, and Data Sciences** (3 👁)
  - **Engineering** (27 👁)
  - **Life Health and Medical Sciences** (2 👁)
  - **Physics** (16 👁)

Affirmation I certify that I am at least 18 years of age; a recent graduate with at least a Master's degree in physics, chemistry, biology, engineering, applied sciences, environmental health, public health, exposure science, computer sciences, information technology, data science, 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.

Click HERE to apply.

ORAU is an Equal Opportunity Employer **(EOE AA M/F/Vet/Disability)**; visit the ORAU website for required employment notices.