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Opportunity Title: Toxicology Data Support
Opportunity Reference Code: EPA-NSSC-0009-45-4-17-24

Organization	U.S. Environmental Protection Agency (EPA)
Reference Code	EPA-NSSC-0009-45-4-17-24
How to Apply	Click HERE to apply.
Description	The EPA National Student Services Contract has an immediate opening for a full time Toxicology Data Support 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 Scientific Computing & Data Curation Division (SCDCD) develops the knowledge and information architecture necessary for integrating, transforming, and managing large scale data streams related to assessing the risk of chemicals. SCDCD creates and manages online tools and ensures compatibility with existing chemistry, toxicology, and other experimental data sources.

What experience and skills will you gain?

As a team member, you will support research under the Chemical Safety for Sustainability (CSS) research program providing structured and computationally accessible data to support tiered toxicity testing of chemicals.
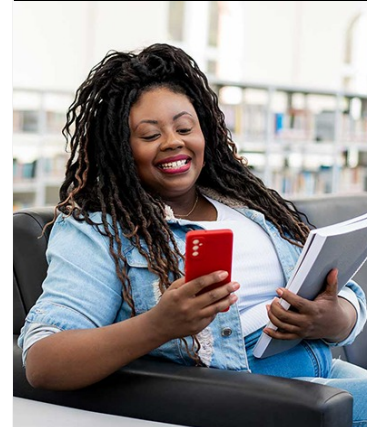
You will assist with support of data needs, including acquisition and development of datasets to parametrize hazard models, assistance in the testing or evaluation of databases, and basic summaries and analyses of data. The work of the team member may include gathering additional datasets from online sources, formatting datasets into standard templates and uploading into databases, testing and evaluating ease-of-use of software, and application of data science and machine learning techniques.

The duties of the team member will include, but are not limited to:

- Using scripts in R or Python to manipulate electronic files and their metadata;
- Utilize and monitor a collaborative code repository;
- Comparing machine extracted data with information in source

documents and systematically tracking changes using an established app;

- Reviewing and flagging data quality according to specified criteria; and
- Contribute to implementation of reusable and scalable techniques for data management.

Communications-related responsibilities will include:

- Contribute to an interdisciplinary team of developers and scientists;
- Thoroughly document all work as directed by EPA mentor to comply with EPA quality assurance procedures for transparency and reproducibility of work;
- Draft reports describing complex datasets or data manipulation procedures;
- Present work in internal reports/memos to be used by EPA scientists; and
- May have the opportunity to present work at scientific conferences or contribute to scientific manuscripts.

Required Knowledge, Skills, Work Experience, and Education

- Training or coursework in computer programming;
- Experience programming in R and/or Python;
- Strong reading comprehension skills and experience logically interpreting pieces of information from a variety of data source types with attention to detail; and
- Experience with toxicology data.

Desired Knowledge, Skills, Work Experience, and Education

- Experience with databases (e.g. MySQL) and
- Knowledge of organic and inorganic chemistry nomenclature.

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 $23.37 for hours worked.

Hours: Full-time.

Travel: Travel is not anticipated for this position.

Expected start date: The position is full time and expected to begin June 2024. The selected applicant will become a temporary employee of ORAU working as a contractor to EPA.

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 Bachelors' degree in biology, toxicology, chemistry, bioinformatics, statistics, computational biology, math,

physics, computer science, information 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:** Bachelor's Degree received within the last 24 month(s).
- **Overall GPA:** 2.00
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 👁)
  - **Life Health and Medical Sciences** (48 👁)
  - **Mathematics and Statistics** (11 👁)

Affirmation

I certify that I am at least 18 years of age; a recent graduate with at least a Bachelors' degree in biology, toxicology, chemistry, bioinformatics, statistics, computational biology, math, physics, computer science, information 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.