Opportunity Title: Application and Database Developer
Opportunity Reference Code: EPA-NSSC-0005-03-1-3-22

Organization	U.S. Environmental Protection Agency (EPA)
Reference Code	EPA-NSSC-0005-03-1-3-22
How to Apply	Click HERE to Apply

Description The EPA National Student Services Contract has an immediate opening for a full time Application and Database Developer 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 Public Health and Environmental Assessment (CPHEA) The Center for Public Health and Environmental Assessment (CPHEA) provides the science needed to understand the complex interrelationship between people and nature in support of assessments and policy to protect human health and ecological integrity. Within CPHEA, the Public Health Integrated Toxicology Division (PHITD) performs clinical and animal toxicological research to assess the impact of environmental exposures on human health by developing and validating biological measures in all aspects of human health to better link exposure, dose, and health outcomes. This includes evaluating toxicological mechanisms and responses for target organ systems using multiple strategies related to chemical screening and prioritization including assessing in vivo predictive value of in vitro tests and test methods development and interpretation.

What experience and skills will you gain?

As a team member, you will work with other members of ORD's development teams to create new applications as well as maintain existing code bases. Extensive on-the-job training shall be provided on current databases and the existing code-base. You will be a member of a multi-disciplinary research team and shall be trained to support the development, programming, testing and maintenance of multiple applications requiring access to chemical and biology databases that provides a foundation for all of programs.
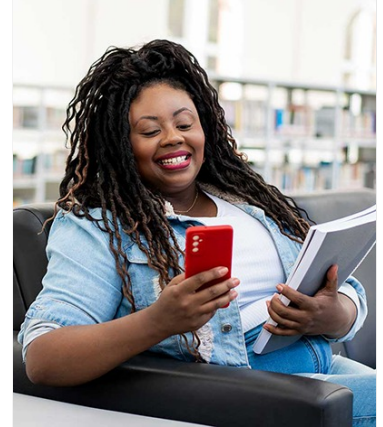
How you will apply your skills (Can be removed based on TO)

Application and Database Programming responsibilities:

- Creating new applications and scripts to interact with databases such as Ruby Active Record communicating with a MySQL database.
- Maintaining existing code and scripts that may or may not access databases.
- Creating reusable web components such as Models and Controllers in

the Ruby on Rails web development framework.

- Developing automated tests for application code such as Unit Tests for Rails models and Functional Tests for Rails controllers.
- Creating and maintaining web components using the Node.JS web framework.
- Creating and maintaining JavaScript-based web components that utilize asynchronous control flow.
- Participating in Agile (Scrum) software development.
- Participating in team code reviews, maintaining records of meetings, correspondence, and action documents, and maintain a system to track projects in progress.

Communications-related responsibilities:

- Participating as a member of a multi-disciplinary research team.
- Interacting with other members of the development team as well as EPA scientists.
- Documenting code and database development efforts.
- May be asked to present work performed in the course of their EPA student contractor service as a poster or presentation at a scientific conference or other forum.

Required Knowledge, Skills, Work Experience, and Education

- Coursework in computer programming I and computer programming II (or equivalent) with passing grades;
- Programming proficiency in at least one modern general-purpose programming language such as Perl, Ruby, Python, C++, or Java;
- Coursework or equivalent work experience with the MySQL database platform;
- Strong written, oral and electronic communication skills;
- Proficiency with Microsoft Office applications (i.e., Excel, PowerPoint, Word, Outlook);
- Experience with Linux operating system is preferred, but experience with command line operations in Windows or OSX is acceptable;
- Experience with basic software development practices; and
- Experience with basic database development practice.

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 $22.46 for hours worked.

Hours: Full-time.

Travel: Overnight travel will not be required.

Expected start date: The position is full time and expected to begin February 2022. The selected applicant will become a temporary employee of ORAU working as a contractor to EPA. The initial project is through May 14, 2022, with up to 3 additional option periods.

Opportunity Title: Application and Database Developer
Opportunity Reference Code: EPA-NSSC-0005-03-1-3-22

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 Bachelor's degree in computer science/engineering, bioinformatics, computational biology, 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):**
	○ **Computer, Information, and Data Sciences** (17 👁)
	○ **Engineering** (27 👁)
	○ **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 Bachelor's degree in computer science/engineering, bioinformatics, computational biology, 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.
	Click HERE to Apply

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