

Opportunity Title: Application and Database Developer at EPA

Opportunity Reference Code: EPA-SSP-0017-7

Organization U.S. Environmental Protection Agency (EPA)

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How to Apply

- Submit application and supporting documents by clicking on Apply Now button.
- For more information, contact EPAjobs@orau.org. Do not contact EPA directly.


Description The EPA Environmental Research and Business Support Program has a full-time opening for an Application and Database Developer position with the Office of Research and Development at the EPA's Research Triangle facility in Raleigh-Durham, 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.

The Toxicity Assessment Division (TAD) is part of the National Health and Environmental Effects Research Laboratory (NHEERL) within ORD/EPA. TAD addresses toxicological mechanisms and responses for target organ systems using multiple strategies. The Exposure Methods and Monitoring Division (EMMD) is part of the National Exposure Research Laboratory (NERL) and is located on EPA's Main Campus in Research Triangle Park, NC. EMMD provides the science that underlies the measurement of environmental stressors and their interactions with biological systems. This science includes method development, evaluation, and field and laboratory testing.

NHEERL and NERL researchers across the Agency are involved in nanomaterials research and nano-informatics methods. TAD in collaboration with EMMD is seeking an individual to provide application development and programming support for dynamic, database-driven applications. The selected candidate will work with other members of the NERL and NHEERL software development team to create new applications as well as maintain existing code bases. Extensive on-the-job training will be provided on current databases and the existing code-base. He/she will be a member of a multi-disciplinary research team and will 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 nanomaterial and nano-related programs.



Application and Database Programming responsibilities shall include:


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- Working directly with data owners to curate raw data for entry into MySQL database;
- Creating new applications and scripts to interact with a MySQL databases;
- Maintaining existing code and scripts that may or may not access databases; and
- Participating in team code reviews, maintaining records of meetings, correspondence, and action documents, and maintaining a system to track projects in progress.

Communications-related responsibilities shall include:

- Participating as a member of a multi-disciplinary research team;
- Interacting with other members of the development team as well as EPA scientists; and
- Documenting code and database development efforts.

The selected candidate may be asked to present work performed in the course of their work as a poster or presentation at a scientific conference or other forum.

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

Salary: Selected applicant will become a temporary employee of ORAU and will receive an hourly wage of \$20.96 for hours worked.

Hours: Fill-time.

Travel: Occasional overnight travel may be required.

Expected Start Date: The position start date is March 2018. The selected applicant will be temporary employees of ORAU working as a contractor to EPA. The initial contract period is through May 14, 2018. The initial contract period is through May 14, 2018, followed by two (2) additional 12 month option periods.

Working Conditions:

The selected applicant shall be supervised by a mentor who will provide day-to-day direction, as well as coach, advise, counsel and review his/her work. This position will involve work in an administrative setting and is not expected to involve exposure to hazardous elements.

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Qualifications Eligible applicants must:

- Be at least 18 years of age and
- Have Bachelor's degree in computer science/engineering, bioinformatics, computational biology, information science or

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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.

Required Knowledge, Skills, Work Experience, and Education

The applicant shall have:

- Coursework in computer programming I and computer programming II (or equivalent);
- Programming proficiency in at least one modern general purpose programming language Perl, Python, C++, or Java;
- Coursework or equivalent work experience with database platforms MySQL, Oracle, or PostgreSQL;
- 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 comfort with command line operations in Windows or OSX is acceptable;
- Experience with basic software development practices; and
- Experience with basic database development practices.

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 24 month(s).
- **Discipline(s):**
 - **Computer, Information, and Data Sciences** (16 👁)
 - **Engineering** (27 👁)
 - **Environmental and Marine Sciences** (1 👁)
 - **Life Health and Medical Sciences** (45 👁)
 - **Mathematics and Statistics** (10 👁)
 - **Physics** (16 👁)
 - **Science & Engineering-related** (1 👁)

Affirmation

I certify that I am at least 18 years of age; a recent graduate with 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.

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