

**Opportunity Title:** EPA Watershed Modeler

**Opportunity Reference Code:** EPA-SSP-0010-8

**Organization** U.S. Environmental Protection Agency (EPA)

**Reference Code** EPA-SSP-0010-8

**How to Apply** Submit application and supporting documents by clicking on Apply Now button.

*For more information, contact [EPAjobs@orau.org](mailto:EPAjobs@orau.org). Do not contact EPA directly.*

**Description Background:**

The EPA Environmental Research and Business Support Program has an immediate opening for an EPA Watershed Modeler with the Office of Research and Development at the EPA facility in Research Athens, GA.


The Office of Research and Development at the EPA supports 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 Watershed Exposure Branch (WEB) in Computational Exposure Division (CED) of the National Environmental Research Laboratory (NERL) supports the mission of the Environmental Protection Agency (EPA) by conducting process, modeling, and field research to assess the exposure risks of humans and ecosystems to natural and man-made stressors. WEB is also responsible for developing innovative software tools for evaluating water quantity and quality. As part of this effort, the WEB is conducting a research project focusing on the development of a state-of-the-art component-based watershed modeling system which can be used to compose workflows to assess water quantity and quality as they relate to exposure.

The candidate shall work with a WEB mentor as part of a multi-disciplinary research team and provide technical support for WEB's watershed modeling components. The work shall include literature search, algorithm and software component development in watershed hydrology domain within the context of water quantity and water quality.

**Modeling activities shall include assisting with the following:**


- Conducting literature searches for the latest scientific studies in hydrology, water quality and watershed modeling.
- Writing algorithms representing science in the domain of hydrology and watershed modeling.
- Writing computer software coding hydrology and watershed modeling algorithms.


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- Designing watershed modeling workflows using available web services.

**Location:** This job will be located at EPA's facility in Athens, GA.

**Salary:** The selected applicant will become a full time temporary employee of ORAU and will receive an hourly wage of \$20.04 for hours worked.

**Travel:** Occasional overnight travel may be required.

**Working Conditions:** This position will involve work in an administrative setting and is not expected to involve exposure to hazardous elements.

The selected candidate shall be supervised by a mentor who will provide day-to-day direction, as well as coach, advise and counsel the selected candidate, and review his/her work.

**Expected Start Date:** The position start date is November 2016. The selected applicant will be temporary employees of ORAU working as a contractor to EPA. The initial contract period is through May 14, 2017. EPA may elect to renew the contract for an additional three 12-month optional periods.

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**Qualifications    Eligible applicants must:**

- Be at least 18 years of age **and**
- Have earned at least a bachelor's degree in science, technology, engineering, mathematics or a related field 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**







Successful candidates will have:

- Demonstrated education and/or experience in desktop and/or web-based software development in at least one of the following computer languages: Java, Python, C#, C++.
- Demonstrated education and/or experience in watershed hydrology.
- Experience working in a team environment.
- Strong written, oral and electronic communication skills.

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**Eligibility  
Requirements**

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Bachelor's Degree or Master's Degree received within the last 24 month(s).
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 )
  - **Computer, Information, and Data Sciences** (16 )
  - **Earth and Geosciences** (21 )
  - **Engineering** (27 )
  - **Environmental and Marine Sciences** (14 )
  - **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; have earned at least a bachelor's degree in science, technology, engineering, mathematics or a related field of study or am a recent college graduate within the last 24 months from an accredited university or college; 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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