

Opportunity Title: Watershed Modeler

Opportunity Reference Code: EPA-SSP-0010-8-02-18-20

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
- *Check out our website at:* orau.org/epa/

Description The EPA National Student Services Contract has an immediate opening for a full-time Watershed Modeler position with the EPA facility in Athens, GA.

What the EPA project is about

The Office of Research and Development (ORD) functions as the principal scientific component of the U.S. Environmental Protection Agency (EPA). 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.

What you will be doing


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


Required skills

- 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; and
- Strong written, oral and electronic communication skills.

How you will apply your skills



Modeling activities


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- Performing 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; and
- Designing watershed modeling workflows using available web services.

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

Salary: Hourly wage for hours worked at a rate of \$20.95 per hour.

Employer: Selected applicant will become a temporary employee of ORAU working as a contractor at EPA.

Hours: Full-time.





Travel: Occasional overnight travel may be required.

Expected start date: The position is full time and expected to begin March 2020. The initial project is through May 14, 2020, with potential optional periods.

Qualifications

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

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Bachelor's Degree or Master's Degree received within the last 24 months or anticipated to be received by 12/31/2019 11:59:00 PM.
- **Overall GPA:** 2.00
- **Discipline(s):**
 - **Earth and Geosciences** (21 )
 - **Engineering** (27 )
 - **Environmental and Marine Sciences** (14 )
 - **Mathematics and Statistics** (10 )

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 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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