

Opportunity Title: EnviroAtlas Data Support

Opportunity Reference Code: EPA-SSP-0027-11-03-26-20

Organization U.S. Environmental Protection Agency (EPA)

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How to Apply **Ready to send share your interest with EPA scientists?**

- Submit application and supporting documents by clicking on Apply Now button.
- *For more information, contact* EPAjobs@oraui.org. Do not contact EPA directly.
- Check out our website at: <https://www.oraui.org/epa/jobs.html>

Description The EPA National Student Services Contract has an immediate opening for a full time EnviroAtlas Data Support position with the Office of Research and Development at the EPA facility in Raleigh, 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

EPA's National Exposure Research Laboratory (NERL) supports EPA's mission to protect human health and the environment by developing and applying innovations in exposure science. Exposure science sets the context for understanding and solving real-world problems. A major component of NERL's research portfolio is the EnviroAtlas. EnviroAtlas provides interactive tools and resources for exploring the benefits people receive from nature or "ecosystem goods and services". Ecosystem goods and services are critically important to human health and well-being, but they are often overlooked due to lack of information. Using EnviroAtlas, many types of users can access, view, and analyze diverse information to better understand the potential impacts of various decisions.

What experience and skills will you gain?

As a team member, you will provide data management, data curation and data analysis support for the EnviroAtlas project. You will provide database management, file management, data curation and extraction, quality control, as well as performing qualitative and quantitative data analysis. As a team member, you will be a part of a multi-disciplinary research team and will support the development, maintenance, and analysis of EnviroAtlas data, tools, and web applications for both national and community scale ecosystem service indicators.

Data Development and Analysis responsibilities

- Development of meter-scale urban land cover data from aerial photography and lidar data using
- Analysis of land cover maps for ecosystem services and sustainability;
- GIS (Geographic Information System) processing of data layers;
- Quality control of geospatial data;
- Creation of metadata and fact sheets supporting the data products; and
- Literature review.

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, methods and land cover development efforts; and
- Presenting work performed at a scientific conference.

Required Knowledge, Skills, Work Experience, and Education

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- Demonstrated education and/or experience in GIS (geographic information systems), geospatial data compilation and analysis;
- Working knowledge of remote sensing and image processing; and
- Strong written, oral and electronic communication skills.

Desired Knowledge, Skills, Work Experience, and Education

- Experience programming in Python and R or other scripting languages; and
- Experience using ENVI, GeniePro and/or eCognition software.

Location: This job will be located EPA's Raleigh, NC facility.

Salary: Selected applicant will become a temporary employee of ORAU and will receive an hourly wage of \$28.99 for hours worked.

Hours: Full-time

Travel: Occasional overnight travel may be required.

Expected start date: The position is full time and expected to begin April 2020. The selected applicant will become a temporary employee of ORAU working as a contractor to EPA. The initial project is through May 14, 2020, with potential optional periods.




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Qualifications

- Be at least 18 years of age **and**
- Have earned at least a Master's degree in the fields of geospatial science, geography, ecology, environmental science, geosciences or a 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.

EPA ORD employees, their spouses, and children are not eligible to participate in this program.

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Master's Degree or Doctoral Degree received within the last 24 months or anticipated to be received by 4/30/2020 11:59:00 PM.
- **Overall GPA:** 2.00
- **Discipline(s):**
 - **Earth and Geosciences** (21 )
 - **Engineering** (27 )
 - **Environmental and Marine Sciences** (14 )

Affirmation

I certify that I am at least 18 years of age; a recent graduate with at least a Master's degree in the fields of geospatial science, geography, ecology, environmental science, geosciences or a related field of study field 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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