

**Opportunity Title:** Geo-Spatial Data Management  
**Opportunity Reference Code:** EPA-NSSC-0005-41NS

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

**Reference Code** EPA-NSSC-0005-41NS

**How to Apply** **Click to Apply:** <https://careers-orau.icims.com/jobs/1041/geo-spatial-data-management/job>

**Description** The EPA National Student Services Contract has an immediate opening for a full time Geo-Spatial Data Management position with the Office of Research and Development at the EPA facility in Research Triangle Park, NC.

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 and Environmental Systems Division (PHESD) focuses on the interrelationships between people and their environment, promotes human health and well-being, and fosters healthy and safe communities.

#### What the EPA project is about

As part of their mission, PHESD 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 component of the organization's research portfolio is the EnviroAtlas ([www.epa.gov/enviroatlas](http://www.epa.gov/enviroatlas)). EnviroAtlas provides geospatial data and interactive tools and resources for exploring the benefits people receive from nature as well as stressors to those benefits. 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 along with guidance from EPA mentors, will research and develop methods to measure relationships between human populations and indicators of ecosystem services. You will provide database management, data curation and extraction, quality control, as well as performing qualitative and quantitative data analysis. As a team member, you will be a member 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.

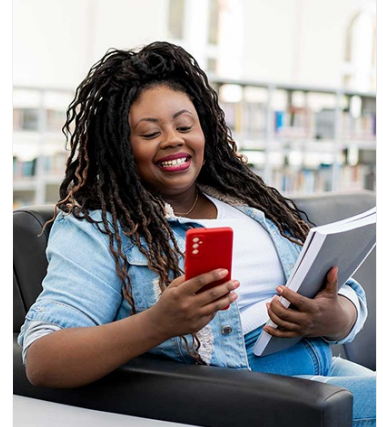
#### How you will apply your skills

**Data Development and Analysis responsibilities may include:**

- Developing geospatial data pertaining to distributions of human population and ecosystem services.
- Developing and modifying analysis tools and models for creating



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geospatial data.

- Using Python, R, or other EPA approved software to develop scripts used in creating GIS data layers.
- Assisting with conducting quality control of GIS and ancillary data.
- Compiling and summarizing data processing steps into Federal Geographic Data Committee standard compliant metadata.
- Contributing to journal articles.

**Communication related responsibilities may include:**

- Conducting literature reviews.
- Documenting code and database development efforts.
- Documenting the development of spatial data layers in fact sheets.

**Required Knowledge, Skills, Work Experience, and Education**

- Demonstrated training and/or experience in geospatial data compilation;
- Prior experience with Python or R;
- Prior experience working with raster datasets (e.g., land cover, digital elevation models, aerial imagery);
- Experience working with ArcGIS;
- Working knowledge of or willingness to learn and use version control (e.g., Git, GitHub, Bitbucket, etc.); and
- Experience presenting scientific methods and results to various audiences.

**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 \$29.57 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 October 2020. The selected applicant will become a temporary employee of ORAU working as a contractor to EPA. The initial project is through May 14, 2021, with up to 4 additional option periods.

*For more information, contact EPAjobs@orau.org. Do not contact EPA directly.*




**Qualifications** • Be at least 18 years of age; **and**

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- Have earned at least a Master's Degree (MA or MS) in geography, ecology, environmental science, engineering, hydrology, geosciences, or a 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:** Master's Degree or Doctoral Degree received within the last 24 month(s).
  - **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 (MA or MS) in geography, ecology, environmental science, engineering, hydrology, geosciences, or a 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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