

**Opportunity Title:** Epidemiology Data Specialist (Part-time)

**Opportunity Reference Code:** EPA-SSP-0024-1-10-24-19

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

**Reference Code** EPA-SSP-0024-1-10-24-19

**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@orau.org](mailto:EPAjobs@orau.org). Do not contact EPA directly.
- Check out our website at: [orau.org/epa/](https://orau.org/epa/)

**Description** U.S. EPA Opportunity

The EPA Environmental Research and Business Support Program has an immediate opening for a part time (20 hours per week) Epidemiology Data Specialist position with the EPA facility in Chapel Hill, NC.

**What the EPA project is about**

The Environmental Public Health Division (EPHD) within the Office of Research and Development (ORD) at EPA focuses on the adverse public health impacts of environmental exposures. The research utilizes human subjects data and publicly available databases to investigate the human health effects of air and water pollutants and other environmental exposures. Researchers in the Epidemiology Branch of EPHD have created an Environmental Quality Index (EQI) for all counties across the U.S. for the time period 2000-2005. Five environmental domains were created: air, water, land, sociodemographic and built. The researchers are currently updating the index for 2006-2010 and also exploring different spatial aggregations (e.g., census tract, neighborhood). The researchers have used the EQI as an exposure metric in health outcome research utilizing health databases with millions of records.

**What you will be doing**

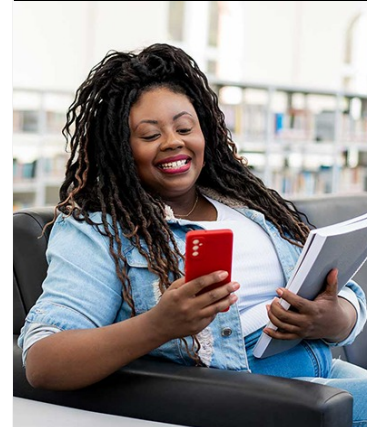
As a team member you will assist a researcher in the Epidemiology Branch with analytical, management and administrative responsibilities and communication responsibilities required to support and maintain a robust research program, including the administration and management of large (millions of records) data sets.

**Required skills**

- Demonstrate proficiency with advanced programming in SAS, STATA or R including statistical analyses of regression modeling (including multivariate logistic, linear, and poisson).
- Demonstrate working knowledge of programming hierarchical/multilevel modeling, principal component analysis or factor analysis, and time to event/cox modeling.
- Demonstrate proficiency with extracting and cleaning large (millions of records) databases.
- Demonstrate education and/or experience in epidemiologic methods



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with an emphasis on large (millions of records) datasets.

- Demonstrate experience in administration support functions (i.e., recordkeeping, filing), managing and organizing records (electronic and hardcopy), and management of extremely large (millions of records) databases.
- Possess strong written, oral and electronic communication skills.

#### **How you will apply your analytical skills**

- Using large (millions of records) datasets to investigate overall environmental quality and adverse health outcomes;
- Using large publically available datasets to investigate environmental ecological conditions, goods, and services and adverse health outcomes;
- Developing coding for statistical analyses; and
- Running developed code for statistical analyses.

#### **How you will apply your Management and Administrative skills**

- Conducting literature searches and organizing results from the searches;
- Extracting, cleaning, linking, merging, documenting and managing large complex databases from both environmental quality (e.g., EPA air quality system, Safe Drinking Water Information System, Toxic Release Inventory) and health data platforms (e.g., National Center for Health Statistics natality and linked birth certificate/infant death certificate databases, National Birth Defects Prevention Network data, mortality data);
- Organizing electronic and hardcopy records and files;
- Researching and summarizing information relating to environmental quality and health outcomes; and
- Maintaining records of meetings, correspondence, and action documents, and maintain a system to track projects in progress.

#### **How you will apply your Communications-related skills**

- Assisting in the logistics and coordination activities for briefings, meetings, workshops, and other collaborative efforts;
- Assisting the team in developing oral presentation results and impacts using graphics and other interactive formats;
- Assisting in developing summary analysis documents of results and impacts from data analyses;
- Assisting in writing study results in manuscripts, presentations, and fact sheets; and
- Creating abstracts for scientific meetings and present work at meetings.

**Location:** This job will be located EPA's facility in Chapel Hill, NC.

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

**Hours:** Part Time (20 hours per week Mon-Fri).

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

**Expected start date:** The position is part time (20 hours per week) and expected to begin November 2019. The initial project is through May 14, 2020, with potential optional periods.

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

- Qualifications**
- Be at least 18 years of age **and**
  - Have Master's degree in one of the following disciplines: Epidemiology, Environmental Sciences, Public Health, Statistics, Social Sciences, Biology and Biostatistics, or 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.*

- Eligibility Requirements**
- **Citizenship:** LPR or U.S. Citizen
  - **Degree:** Master's Degree or Doctoral Degree received within the last 24 month(s).
  - **Discipline(s):**
    - **Environmental and Marine Sciences** ([13](#) )
    - **Life Health and Medical Sciences** ([45](#) )
    - **Mathematics and Statistics** ([10](#) )

**Affirmation** I certify that I am at least 18 years of age; a recent graduate with a Master's degree in one of the following disciplines: Epidemiology, Environmental Sciences, Public Health, Statistics, Social Sciences, Biology and Biostatistics, 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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