

INSTITUTE FOR SOCIAL RESEARCH & DATA INNOVATION



EMPLOYMENT OPPORTUNITY

Be a part of something BIG.

DATA ANALYST III JOB OPENING ID 358417

JOB DESCRIPTION

This is a one year, temporary appointment with the possibility of continuation contingent on funding and acceptable performance.

IPUMS makes the world's largest collection of population and health survey data freely accessible online. Thousands of researchers use these data worldwide. Join our team and contribute to the development and enhancement of this public good! We seek a Data Analyst with a strong data-driven social science or public health background who enjoys quantitative analysis and demographic methods with a focus on fertility and reproductive health and/or population-environment interactions.

The data analyst will:

- Create theoretical and background materials to convey best practices for rigorous and reproducible quantitative research on climate change and health and how to create valuable data visualizations of research results. The materials will include model code, videos, and detailed guidelines on how to find, manipulate, and link geospatial, climate, and meteorological data to health survey data, such as the Demographic and Health Surveys.
- Create an intuitive online repository to disseminate these materials. To guarantee broad accessibility, the repository will emphasize free, open-source software, such as R. The [IPUMS PMA Data Analysis Hub](#) will serve as a model for the repository.
- Assist in conducting climate change and health research.
- A portion of the data analyst's time will be focused on project coordination for a number of smaller data analysis projects, including tasks like organizing data across multiple quantitative data projects, scheduling activities, organizing timelines and deliverables for projects from multiple funding agencies, and coordination of team research activities.

RESPONSIBILITIES

The primary focus of this position is to produce web-based resources, interactive dashboards, reports, and data analysis resources applying international IPUMS health survey data for science and policy. Time is also allocated for coordinating related data analysis projects and timelines. Most of this research will employ data from countries in sub-Saharan Africa. You will work with the project lead and/or other research staff for all these tasks.

Tasks may include:

- **Research and/or analysis projects (50%):** Prepare comparative research reports and respond

to requests for analysis. Summarize, map/visualize, and analyze data across time periods and over countries to create visually appealing digital reports, blog posts, or dashboards.

- **Data management and code sharing (30%)**: For all projects, manage and organize quantitative data, including the documentation of the statistical program code used to organize and analyze the data and share this code on Github. Documentation will include training materials so that the data are widely accessible for researchers of all experience levels.
- **Project coordination (20%)**: Assist the principal investigator in monitoring project deliverables and timelines for several smaller data analysis projects. This includes communicating across multiple project teams and coordinating schedules with students and postdoctoral researchers. Work closely with the principal investigator to manage communications for several different data analysis projects.

Salary Range: Annual salary starting at \$60,000- \$75,000 depending on qualifications.

This position is eligible for fully remote, hybrid, or fully onsite work arrangements.

QUALIFICATIONS

Required Qualifications

- BS/BA in an applied data science/analysis or quantitative social science/public health field like geography, epidemiology, biostatistics, sociology, economics, or other related discipline and 2 years of related experience OR a combination of related education and work experience to equal six (6) years.
- High-level data manipulation skills (including documenting and organizing data and code) and experience analyzing and visualizing complex data that vary over space and time using R, or Python, and other statistical software.
- Experience using Github
- Strong written, verbal, and interpersonal communication skills with audiences from various disciplines, communities, and cultures.
- Experience using data management/sharing tools to facilitate teamwork
- Ability to work independently and as a member of a diverse team.

Additional selection criteria*

- Familiarity and interest in social science or health data
- Field experience, familiarity, or interest in Africa
- Experience with Stata

Please detail in your cover letter your experiences with data, including relevant courses, internships, and jobs.

*Candidates who do not meet any of the additional selection criteria will be considered and are encouraged to apply.

ABOUT THE DEPARTMENT

[IPUMS](#) is part of the Institute for Social Research and Data Innovation (isrdi.umn.edu), which includes the Minnesota Population Center (pop.umn.edu), the Life Course Center (lcc.umn.edu), and the Minnesota Research Data Center (mnrdc.umn.edu). The Institute supports the work-life balance of our staff with 40 hour work weeks and flexible work hours. The University also offers excellent health insurance, retirement benefits, and tuition assistance. IPUMS encourages and supports staff training and development.

Diversity, equity, and inclusion are core values of our organization. We are committed to creating a work environment that celebrates and promotes diversity and advances a culture of inclusion for persons from historically excluded and underrepresented groups. We aspire to create a space that encourages and embraces inclusiveness, equal opportunity, and respect. We strongly encourage women and members of underrepresented groups to apply.

APPLICATION PROCEDURE

Application deadline: November 27, 2023 Please apply <https://hr.myu.umn.edu/jobs/ext/358417>. Application requirements include a resume, and a cover letter describing your interest and qualifications in the position. Questions concerning the application process may be addressed to Alex Lunde, HR & Operations Manager, at isrdi-jobs@umn.edu.

Any offer of employment is contingent upon the successful completion of a background check. Our presumption is that prospective employees are eligible to work here. Criminal convictions do not automatically disqualify finalists from employment.