

Opportunity Title: CDC GIS Analyst Fellowship
Opportunity Reference Code: CDC-NCEZID-DFWED-2023-0008

Organization Centers for Disease Control and Prevention (CDC)

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A complete application consists of:

- An application
- Transcripts – [Click here for detailed information about acceptable transcripts](#)
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- One educational or professional recommendation. Your application will be considered incomplete, and will not be reviewed until one recommendation is submitted.

All documents must be in English or include an official English translation.

Application Deadline 3/31/2023 3:00:00 PM Eastern Time Zone

Description ***Applications will be reviewed on a rolling basis.**

CDC Office and Location: A research opportunity is available with the Division of Foodborne, Waterborne, and Environmental Diseases (DFWED) in the National Center for Emerging and Zoonotic Infectious Diseases (NCEZID), Waterborne Disease Prevention Branch at the Centers for Disease Control and Prevention (CDC) located in Atlanta, Georgia.

The Centers for Disease Control and Prevention (CDC) is one of the major operation components of the Department of Health and Human Services. CDC works to protect America from health, safety and security threats, both foreign and in the U.S. Whether diseases start at home or abroad, are chronic or acute, curable or preventable, human error or deliberate attack, CDC fights disease and supports communities and citizens to do the same.

Research Project: The National Wastewater Surveillance System in the Waterborne Disease Prevention Branch at the Centers for Disease Control and Prevention in Atlanta, GA is rapidly expanding to receive data from jurisdictions across the US. We are seeking a geographic information systems (GIS) analyst to join the program. The successful candidate will have the opportunity to

- Develop a suite of protocols for delineating wastewater service areas (sewersheds) and estimating sewershed population characteristics that are appropriate for varying levels of geographic data availability.
- Support state and local health departments in their efforts to develop sewershed polygon files and estimate sewershed



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- population characteristics.
- Develop data management strategies to efficiently manage a growing corpus of spatial data.
- Develop spatial visualizations and analysis of wastewater surveillance data.
- Support analysis of wastewater data, specifically analyses involving spatial data

Learning Objectives: The successful candidate will collaborate closely with the Data and Epidemiology Leads, as well as other NWSS staff, to learn about wastewater surveillance data needs and develop solutions.

Mentor(s): The mentor(s) for this opportunity is Amy Kirby (agk1@cdc.gov). If you have questions about the nature of the research, please contact the mentor(s).

Anticipated Appointment Start Date: June 2023. Start date is flexible and will depend on a variety of factors.

Appointment Length: The appointment will initially be for one year, but may be renewed upon recommendation of CDC and is contingent on the availability of funds.

Level of Participation: The appointment is full-time.

Participant Stipend: The participant will receive a monthly stipend commensurate with educational level and experience.

Citizenship Requirements: This opportunity is available to U.S. citizens, Lawful Permanent Residents (LPR), and foreign nationals. Non-U.S. citizen applicants should refer to the [Guidelines for Non-U.S. Citizens Details page](#) of the program website for information about the valid immigration statuses that are acceptable for program participation.

ORISE Information: This program, administered by ORAU through its contract with the U.S. Department of Energy (DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and CDC. Participants do not become employees of CDC, DOE or the program administrator, and there are no employment-related benefits. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE.

The successful applicant(s) will be required to comply with Environmental, Safety and Health (ES&H) requirements of the hosting facility, including but not limited to, COVID-19 requirements (e.g. facial covering, physical distancing, testing, vaccination).

Questions: Please visit our [Program Website](#). After reading, if you have additional questions about the application process

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please email ORISE.CDC.NCEZID@orau.org and include the reference code for this opportunity.





Qualifications

The qualified candidate should have received a master's degree in one of the relevant fields (e.g. Environmental Engineering, Environmental Science, Public Health, Geography, Environmental Economics), or be currently pursuing the degree with completion by August 1, 2023. Degree must have been received within the past five years.

Preferred Skills:

- Experience with geographic information systems content, especially as applied to environmental analysis, is preferred.
- Proficiency with GIS software such as ArcGIS or QGIS.
- Experience performing spatial analysis in R or Python, generating automated reports with tools like PowerBI, and field experience generating new spatial data sets is a plus.

Eligibility Requirements

- **Degree:** Master's Degree received within the last 60 months or anticipated to be received by 8/1/2023 11:59:00 PM.
- **Discipline(s):**
 - **Computer, Information, and Data Sciences** (3 )
 - **Earth and Geosciences** (1 )
 - **Environmental and Marine Sciences** (2 )
 - **Life Health and Medical Sciences** (3 )

Affirmation

I certify that I have not previously been employed by CDC or by a contractor working directly for CDC. I understand that CDC does not permit individuals with a prior employment relationship with CDC or its contractors to participate as trainees in the ORISE program. (Exceptions may be granted for individuals who, since the previous CDC employment, have obtained a new STEM degree which necessitates training in a new field.)