

Opportunity Title: CDC Statistician Fellowship
Opportunity Reference Code: CDC-NCEZID-DFWED-2023-0103

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 6/26/2023 3:00:00 PM Eastern Time Zone

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

CDC Office and Location: A fellowship opportunity is currently available in the Surveillance, Information Management, and Statistics Office (SIMSO) in the Division of Foodborne, Waterborne, and Environmental Diseases (DFWED) in the National Center for Emerging and Zoonotic Infectious Diseases (NCEZID) at the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia.

SIMSO provides critical coordination and oversight of division-wide Surveillance and Information Management (SIM) activities. SIMSO consists of a motivated, highly skilled, and dynamic group of statisticians, surveillance epidemiologists, and IT professionals who work with epidemiologists and laboratory scientists in DFWED's five branches to apply existing and novel analytical methodology to a variety of complex research projects.

Research Project: The incumbent will be training with experts in the fields of biostatistics, epidemiology, and laboratory science to apply or develop statistical methods for the analysis of observational, surveillance, and randomized controlled trial data. The incumbent will participate in statistical modeling and analysis, the development of presentations and scientific writing, specifically, statistical methods, results, and key findings for scientific reports and manuscripts. The incumbent will also train in interpretation of results and will practice developing and providing the Division and external partners with training on tools developed.

Learning Objectives: During the fellowship, the individual will:



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- Train in evaluating, extending, and developing methods for statistical analysis and applying these to projects related to foodborne, waterborne, and environmental disease.
- Train with scientists in the Division to prepare complex datasets, often involving data from multiple sources, for the purpose of analysis and development of statistical methodology
- Learn to assist Division branches on investigations involving statistical analysis and machine learning.
- Train with others in the Division to produce programming pipelines designed to perform data processing and analysis.
- Learn to prepare presentations for professional meetings and participate in the writing of reports and published manuscripts
- Participate in technical assistance and training; including learning how to create educational and training materials for internal and external partners; and evaluates activities, with the intended goal of continuous quality improvement for targeted educational and training materials.

Mentor(s): The mentor for this opportunity is Lyndsay Bottichio (xmm8@cdc.gov). If you have questions about the nature of the research, please contact the mentor(s).

Anticipated Appointment Start Date: June 15, 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.

Background Check Information: The fellow will be subject to standard federal background investigation, Department of Justice background investigation, and initial and ongoing personnel suitability review.

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

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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 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. Statistics, Biostatistics, Data Science), or be currently pursuing the degree with completion before June 30, 2023. Degree must have been received within the past five years.

Preferred Skills:

- Familiarity with different statistical modeling approaches.
- Experience collaborating with scientists, including microbiologists and epidemiologists, on research projects
- Experience with data manipulation, data visualization, study design, and statistical modeling.
- Familiarity and experience with linear models, generalized linear models, and multi-level models and an understanding of which models are appropriate for a given dataset and research question.
- Necessary programming skills to conduct statistical analysis in R and/or Python.
- Strong communication skills, including experience preparing documents, presentations, and other written products.
- Excellent time management and organizational skills and the ability to comfortably multi-task.

Eligibility Requirements

- **Degree:** Master's Degree received within the last 60 months or anticipated to be received by 6/30/2023 11:59:00 PM.
- **Discipline(s):**
 - **Life Health and Medical Sciences** (6 )
 - **Mathematics and Statistics** (11 )

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

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STEM degree which necessitates training in a new field.)