

Opportunity Title: Genomic Epidemiology Fellowship - - CDC

Opportunity Reference Code: CDC-NCEZID-2016-0075

- Organization** Centers for Disease Control and Prevention (CDC)
- Reference Code** CDC-NCEZID-2016-0075
- How to Apply** 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
 - Two educational or professional references

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

If you have questions, send an email to CDCCrpp@orau.org. Please include the reference code for this opportunity in your email.

Description A fellowship opportunity is currently available in the Division of Foodborne, Waterborne, and Environmental Diseases (DFWED) of the National Center for Emerging and Zoonotic Infectious Diseases (NCEZID) at the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia.

NCEZID aims to protect public health caused by a wide range of infectious diseases, focusing on diseases that have been around many years, emerging diseases, and zoonotic diseases. NCEZID's mission is guided in part by a holistic "One Health" strategy, which recognizes the vital interconnectedness of microbes and the environment. Part of this focus on environmental disease transmission involves laboratory investigations of the interactions between water (e.g., agricultural water, produce wash water) and food to prevent foodborne illness and control disease outbreaks.

Joining DFWED, the fellow will participate in the Waterborne Disease Prevention Branch to provide scientific support for laboratory research related to developing and utilizing advanced molecular detection methods for parasitic disease surveillance and outbreak investigations.

The fellow may have the opportunity to be involved in the following activities:

- Testing clinical, animal, and water samples for the presence of parasitic pathogens and links between cases and contamination sources.
- Conducting laboratory experiments enriching parasite DNA for construction of reference libraries for next-generation sequencing of *Cryptosporidium* genomes.




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- Conducting comparative genomic analysis of foodborne and waterborne outbreak samples to determine strategies for data analysis and interpretation.
- Using bioinformatics software (e.g., MEGA, BioEdit, ChromasPro, CLC Genomics) to analyze data
- Evaluating methodology used in studies conducted by epidemiologists and other DFWED researchers to ensure the results are valid and reliable
- Developing next-generation molecular surveillance system for cryptosporidiosis, CryptoNet.
- Preparing research reports and helping with the submission of manuscripts to peer-reviewed journals
- Translating bioinformatics methodologies and results to non-bioinformaticians

This program, administered by ORAU through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education, was established through an interagency agreement between DOE and CDC. The initial appointment is for one year, but may be renewed upon recommendation of CDC contingent on the availability of funds. The participant will receive a monthly stipend commensurate with education level and experience. Proof of health insurance is required for participation in this program. The appointment is full-time at CDC in the Atlanta, Georgia, area. Participants do not become employees of CDC or the program administrator, and there are no fringe benefits paid.

Qualifications

- A Master's degree in microbiology, molecular biology, parasitology, or a related field received within the last five years.
- Strong laboratory and analytical skills in the area of molecular microbiology is desired.

Eligibility Requirements

- **Degree:** Master's Degree received within the last 60 month(s).
- **Academic Level(s):** Post-Master's.
- **Discipline(s):**
 - **Life Health and Medical Sciences** (2 )