

Opportunity Title: CDC Enteric Bacterial Pathogens Fellowship

Opportunity Reference Code: CDC-DFWED-2019-0216



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Organization Centers for Disease Control and Prevention (CDC)

Reference Code CDC-DFWED-2019-0216

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
- One educational or professional recommendation

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

If you have questions, send an email to ORISE.CDC.NCEZID@rau.org. Please include the reference code for this opportunity in your email.

Application Deadline 11/4/2019 3:00:00 PM Eastern Time Zone

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

A research opportunity is currently available 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.

The Enteric Diseases Laboratory Branch (EDLB) mission is to contribute to the preparedness and response to foodborne and diarrheal diseases in the United States and abroad by facilitating laboratory detection, identification and characterization of enteric bacterial pathogens. Under the guidance of a mentor, the selected participant will have the opportunity to learn how to use the NARMS database, how to organize and manage electronic database upload, storage, and quality control of antimicrobial susceptibility. The participant will also learn how to use other Specimen Management System such as ELIMS.

The participant will have the opportunity to learn about antimicrobial susceptibility testing (AST) methods, including broth microdilution, disk diffusion, Etest methods. The participant will also learn how to use the oCelloScope, the new antimicrobial susceptibility testing assay that was optimized in the National Antimicrobial Resistance Surveillance Laboratory. It's a life cell imaging system for monitoring of biological growth and development that will help us understand behavior of strains in response to antimicrobial drugs. Optical screening for rapid antimicrobial testing using the oCelloScope provides a new approach for rapidly detecting phenotypic antimicrobial resistance as an accurate and sensitive antimicrobial susceptibility testing (AST) method for assessment of in vitro activity of antibiotics. It's an easy-to-use automated microscope facilitating high-throughput testing and robust time-lapse studies. It also facilitates capturing the early stages in microbial growth that could not otherwise be detected with conventional OD measurements.

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

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appointment can be up to 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 educational 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, DOE or the program administrator, and there are no employment-related benefits.




Qualifications

The qualified candidate should have received a bachelor's degree in one of the relevant fields. Degree must have been received within five years of the appointment start date.

Preferred skills:

- Comfortable working with computers
- Strong knowledge of Microsoft Excel, Access, PowerPoint and Word

Eligibility Requirements

- **Degree:** Bachelor's Degree received within the last 60 month(s).
- **Discipline(s):**
 - **Chemistry and Materials Sciences** (1 )
 - **Computer, Information, and Data Sciences** (2 )
 - **Life Health and Medical Sciences** (3 )