

Opportunity Title: CDC Biostatistics in Healthcare-Associated Infections

Opportunity Reference Code: CDC-NCEZID-2021-0293

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 10/28/2021 3:00:00 PM Eastern Time Zone

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

CDC Office and Location: A research opportunity is currently available with the Office of Laboratory Strategies and Analytics (OLSA) in the Division of Healthcare Quality Promotion (DHQP) at the National Center for Emerging and Zoonotic Infectious Diseases (NCEZID) at the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia.

Research Project: The selected participant will join the team and be involved in managing and analyzing data from a variety of antibiotic resistance activities focused on healthcare associated infections, including those managed through the Antibiotic Resistance Laboratory Network (AR Lab Network).

The fellow will contribute to cleaning, analyzing, and visualizing data collected across antibiotic resistance activities, including the AR Lab Network, and be involved with developing statistical methods and models for various applied public health applications. The fellow will learn how to detect and describe trends in resistance and set priorities for testing, analysis, and prevention. The fellow will gain experience in communicating findings and emerging priorities with CDC colleagues and programs, public health partners, and the public. The fellow may present unique findings and research at regional and national conferences. The fellow will gain skills in providing support to epidemiologic investigations detected by the data they've analyzed. The fellow will learn all aspects of collaborating with other teams and branches within DHQP, and other key partners in federal government, state and local public health departments, professional organizations, and clinical medicine.

Learning Objectives: This fellow will gain experience and expertise in how to:

- Detect and describe trends in novel and emerging antibiotic resistance.



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- Manage data from numerous partners and systems, troubleshoot errors, and help maintain reporting interfaces specific to healthcare-associated pathogens.
- Link data across public health surveillance systems.
- Analyze diverse data sets and develop statistical methods and models related to antibiotic resistance.
- Translate models into tools that stakeholders can use to incorporate and interpret local data sources
- Support epidemiologic investigations related to testing of and response to antibiotic resistance threats.
- Collaborate with internal and external public health and clinical partners to help detect, describe, and prevent antibiotic resistance.
- Present data to scientific and non-scientific audiences.

Mentor(s): The mentors for this opportunity are Alicia Shams (aop9@cdc.gov), Allison Brown (iyk6@cdc.gov) and Jennifer Huang (uzo0@cdc.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: **October 2021.** 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.

Questions: Please visit our [Program Website](#). After reading, if you have additional questions about the application process please email ORISE.CDC.NCEZID@ornl.gov 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. Degree must have been received within five years of the appointment start date.

Preferred skills:

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- Demonstrable proficiency using SAS (preferred), R, and/or similar programming software and concepts
- Knowledge of Microsoft Office suite, particularly Access and Excel, RedCAP
- Demonstrated ability to conduct activities efficiently, both independently and as part of a team
- Demonstrated organizational and communication skills, including public speaking and preparation of written materials such as documents and reports
- Knowledge of and familiarity with transformation and transposition of complex and relational data types and structures (e.g., JSON files, HL7 messaging)
- Experience and/or interest in GitHub, Splunk, ArcGIS, Python, and/or other data visualization and sharing platforms (e.g. Tableau, PowerBI)

- Eligibility Requirements**
- **Degree:** Master's Degree received within the last 60 month(s).
 - **Discipline(s):**
 - **Computer, Information, and Data Sciences** ([2](#) 👁)
 - **Life Health and Medical Sciences** ([7](#) 👁)
 - **Mathematics and Statistics** ([2](#) 👁)