

Opportunity Title: CDC NCIRD Morehouse School of Medicine Vaccine-Preventable Diseases Internship - Antimicrobial Resistance and Antimicrobial Non-susceptible Research Fellowship

Opportunity Reference Code: CDC-NCIRD-2023-0115

Organization Centers for Disease Control and Prevention (CDC)

Reference Code CDC-NCIRD-2023-0115

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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.

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

Application Deadline 6/20/2023 3:00:00 PM Eastern Time Zone

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

CDC Office and Location: A fellowship opportunity is available with the Respiratory Diseases Branch (RDB) within the Division of Bacterial Diseases (DBD), in the National Center for Immunization and Respiratory Diseases (NCIRD) at the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia. This opportunity can be part-time or full-time and is eligible for 100% telework from Atlanta.

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.

The mission of the Division of Bacterial Diseases (DBD) is to prevent and control illness and death from vaccine-preventable and other respiratory bacterial diseases, in the United States and worldwide, through leadership in epidemiologic and laboratory science and vaccine policy. Within DBD is the Respiratory Diseases Branch (RDB) which focuses on prevention and control of community-acquired bacterial respiratory and neonatal infections, both domestically and internationally.

NCIRD - [Immunization and Respiratory Diseases \(NCIRD\) Home | CDC](#)

Research Project: The emergence of antibiotic drug resistance (AMR) is an urgent threat to public health. CDC produces estimates of the national burden of antibiotic resistance for select pathogens to inform national policy and investment decisions aimed at combating antibiotic resistance. The

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Respiratory Disease Branch at CDC conducts active, population-based, and laboratory surveillance to monitor the antimicrobial-resistant burden of select pathogens causing severe, invasive diseases. However, a substantial burden of noninvasive disease is not captured in existing surveillance systems yet contributes importantly to the overall burden of national antibiotic resistance. The student will join a growing team of epidemiologists, statisticians, and public health professionals convened to estimate the full burden of antimicrobial-resistant disease across three pathogens: *Streptococcus pneumoniae*, group A streptococcus, and group B streptococcus.

The Respiratory Disease Branch is seeking motivated masters or doctoral-level students with a background in epidemiology, biostatistics, project management, data management, or data science. This appointment will offer a unique opportunity to help build a model to monitor the burden of antimicrobial non-susceptible disease across key bacterial pathogens: *Streptococcus pneumoniae*, group A streptococcus, and group B streptococcus.

Learning Objectives: The intern/fellow will be able to receive training and practice applied epidemiology by completing the following:

1. Systematic review and meta-analysis summarizing nonsusceptibility of group A streptococcus. This will involve defining search terms, inclusion/exclusion criteria, title/abstract/full-text review, creation of PRISMA flow diagrams, meta-analysis using statistical software, writing a scientific paper summarizing the review's findings, and presenting findings to subject matter experts. Sub-analyses may include assessing susceptibility by age group, geographic location, and type and comparing the noninvasive susceptibility estimates to CDC's Active Bacterial Core Surveillance and active ongoing surveillance studies of group A streptococcus.
2. Literature reviews to identify relevant ICD-10 codes for each pathogen and inform expert panel deliberations about the proportion of disease syndromes attributable to each streptococcal pathogen.

Mentor(s): The mentor for this opportunity is **Kristin Andrejko** (onp9@cdc.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: **August 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, or part-time, and is negotiable.

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

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

Qualifications The qualified candidate should be a current Morehouse School of Medical (MSM) student pursuing a master's, doctoral, or medical degree in Biomedical Sciences, Health Sciences, Medicine, Public Health, or other related disciplines and have completed at least one year by the start of the fellowship. Recent graduates from MSM will also be considered and degree must have been received within the past year.

Preferred skills:

- Interest, motivation, and a willingness to ask questions are the most important.
- Interest in vaccine-preventable and respiratory diseases and vaccines
- Experience in conducting literature search, systematic reviews, and meta-analysis.
- Comfortable reading and abstracting data from the scientific literature.
- Communication (oral/written) including technical/scientific writing.
- Experience performing data analysis using statistical software (e.g. R, SAS)
- Project Management

Eligibility Requirements

- **Degree:** Master's Degree or Doctoral Degree received within the last 60 months or anticipated to be received by 5/31/2027 12:00:00 AM.
- **Discipline(s):**
 - **Business** ([1](#) )
 - **Communications and Graphics Design** ([3](#) )
 - **Computer, Information, and Data Sciences** ([2](#) )

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- **Life Health and Medical Sciences** ([4](#) 🗨)
- **Mathematics and Statistics** ([2](#) 👁)

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.)

I certify that I am a recent graduate(within 60 months) or a current student of Morehouse School of Medicine (MSM) pursuing a master's, doctoral, or medical degree in Biomedical Sciences, Health Sciences, Medicine, Public Health, or other related disciplines and have completed at least one year, or will have completed before the start of this fellowship.