

Opportunity Title: CDC Bioinformatics Fellowship

Opportunity Reference Code: CDC-NCHHSTP-2023-0099

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 6/19/2023 3:00:00 PM Eastern Time Zone

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

CDC Office and Location: A research opportunity is available with the Division Tuberculosis Elimination (DTBE) Laboratory Branch (LB) within the National Center for HIV, Viral Hepatitis, STD, and TB prevention (NCHHSTP), at the Centers for Disease Control and Prevention (CDC) located in Atlanta, Georgia.

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.

Research Project: The selected participant will be part of the Applied Research Team (ART) within DTBE/LB. ART focuses on applied research directly related to molecular epidemiology, drug resistance, immunology, and host-directed therapies. ART also manages data sharing and analysis of whole genome sequencing data of *Mycobacterium tuberculosis* generated at the National Tuberculosis Molecular Surveillance Center. This information is used for national surveillance to detect possible outbreaks, transmission networks and drug resistance.

Learning Objectives: The participant will be mentored and trained in data management and analysis for several projects involving data analysis and visualization of large data sets related to drug resistance, surveillance and host-directed therapeutics. The participant will also receive training in the development and evaluation of new and existing bioinformatic tools for the analysis of large data sets, development of tools for data visualization, and development of methods for sharing data and bioinformatic tools with external partners.



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Mentor(s): The mentor for this opportunity is James Posey (hzp9@cdc.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: 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.

Citizenship Requirements: This opportunity is available to U.S. citizens and Lawful Permanent Residents (LPR).



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.NCHHSTP@ornl.gov and include the reference code for this opportunity.

Qualifications The qualified candidate should have received a master's or doctoral degree in one of the relevant fields, or be currently pursuing one of the degrees and will reach completion by June 2, 2023. Degree must have been received within five years of the appointment start date.

Preferred skills:

- Excellent oral and written communication skills
- Comfort working in a highly interdisciplinary and collaborative environment.
- Experience scripting in at least one language (Python, R, or shell preferred)
- UNIX command line bioinformatics tools
- Experience with developing and evaluating bioinformatic tools.
- Use of version control systems and code repositories (e.g. GitHub)
- Analysis of next generation sequencing data, including QC, assembly, alignment, or phylogeny tools

- Eligibility Requirements**
- **Citizenship:** LPR or U.S. Citizen
 - **Degree:** Master's Degree or Doctoral Degree received within the last 60 months or anticipated to be received by 6/2/2023 12:00:00 AM.
 - **Discipline(s):**
 - **Computer, Information, and Data Sciences** ([3](#) )
 - **Life Health and Medical Sciences** ([7](#) )

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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.)