

Opportunity Title: CDC Fellowship in Bioinformatics Development for Molecular Surveillance

Opportunity Reference Code: CDC-CGH-2022-0082

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 7/15/2022 11:59:00 PM Eastern Time Zone

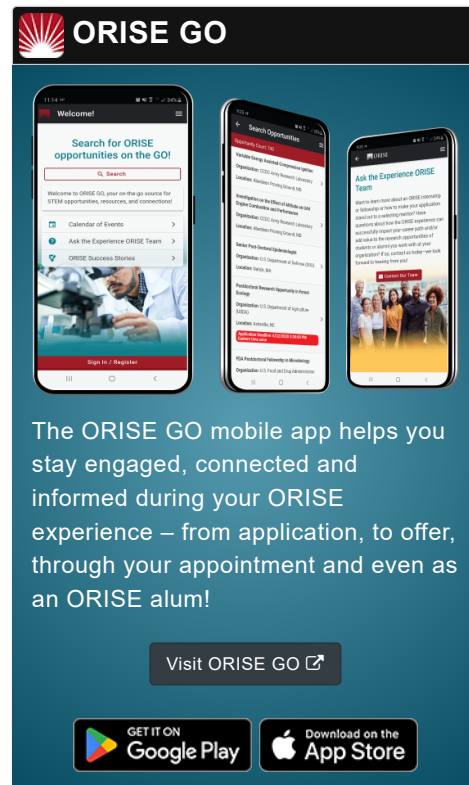
Description ***Applications will be reviewed on a rolling-basis.**

CDC Office and Location: An exciting fellowship opportunity is currently available in the Division of Parasitic Diseases and Malaria (DPDM), Parasitic Diseases Branch (PDB), within the Center for Global Health (CGH) at the Centers for Disease Control and Prevention (CDC) located in Atlanta, Georgia.

Research Project: The research participant will learn applied research in a laboratory project to develop, validate, and deploy a next generation molecular and analysis surveillance system for tracking malaria parasites imported to the U.S. and globally.

Learning Objectives: Under the guidance of a mentor, the participant will be involved in the following activities:

- Learn to apply their existing bioinformatics and molecular laboratory skills to developing advanced next generation sequencing, bioinformatics, and statistical methods for characterizing *P. falciparum* malaria parasites. This process includes using the python and R programming languages to develop, modify and implement surveillance data analysis programs.
- Train with senior scientists and program consultants in the development of new data collection instruments and data analysis plans, including participating in the production of malaria surveillance activity reports in support of the domestic malaria surveillance program.
- Receive mentoring on the use and design of quality management procedures related to data collection and



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analysis procedures, as well as principles, practices, methodologies, and techniques for malaria molecular surveillance and epidemiology.

- Receive mentoring in the preparation of written scientific manuscripts for publication and/or presentations related to malaria genetic characterization and analysis.

Mentor(s): The mentor for this opportunity is Eldin Talundzic (wrj5@cdc.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: As soon as a qualified candidate is identified. 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.

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.CGH@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 with completion by the end of May 2022. Degree must have been received within the past five years.

Preferred Skills:

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- Knowledge of Python and R programming languages
- Background in bioinformatics, data science, and/or database systems
- Demonstration of implementation and/or development of simple bioinformatics pipelines or workflows to address research questions in the area of molecular parasitology

**Eligibility
Requirements**

- **Degree:** Master's Degree or Doctoral Degree received within the last 60 months or anticipated to be received by 5/31/2022 11:59:00 PM.
- **Academic Level(s):** Postdoctoral or Post-Master's.
- **Discipline(s):**
 - **Computer, Information, and Data Sciences** (5 👁)
 - **Life Health and Medical Sciences** (5 👁)
 - **Mathematics and Statistics** (1 👁)