

Opportunity Title: CDC Education and Training Fellowship

Opportunity Reference Code: CDC-NCCDPHP-DHDSP-2023-0265

Organization Centers for Disease Control and Prevention (CDC)

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How to Apply *Connect with ORISE...on the GO!* Download the new ORISE GO mobile app in the [Apple App Store](#) or [Google Play Store](#) to help you stay engaged, connected, and informed during your ORISE experience and beyond!

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 1/27/2024 11:00:00 PM Eastern Time Zone

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

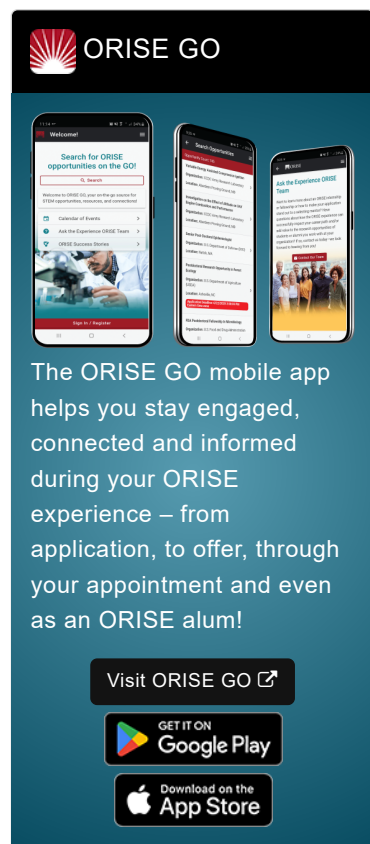
CDC Office and Location: An ORISE fellowship opportunity is available in the Division for Heart Disease and Stroke Prevention (DHDSP) within the Centers for Disease Control and Prevention in Atlanta, Georgia.

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: Under the guidance of a mentor, the fellow will have the opportunity to train and gain experience in health informatics in the Epidemiology and Surveillance Branch within DHDSP. Cardiovascular disease is the leading cause of death in the United States, accounting for nearly 900,000 deaths annually. This opportunity will provide critical support to DHDSP's efforts to leverage real-world clinical data (electronic health records and administrative claims) to improve public health surveillance and health services research for cardiovascular disease. Projects will contribute to CDC's high-priority data modernization efforts, such as the use of electronic health data for public health surveillance and research, and will address health equity issues, including identifying and studying differences by social and economic context and racial/ethnic group.

Learning Objectives: The fellow will collaborate with health scientists and informaticists on the following activities:

- Coordinating and advising on three informatics projects which aggregate electronic health record (EHR) data across multiple data contributors to perform public health surveillance of hypertension and



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other cardiovascular disease risk factors.

- Using cleaned, aggregated, weighted, modeled, summary-level data from electronic health records to create data visualizations and dashboards for the public and partner organizations to explore and use the data.
- Develop and implement electronic phenotypes (case definitions) for identifying chronic disease conditions in electronic health records.
- Analyzing data from electronic health records and writing or coauthoring scientific manuscripts (for submission to peer reviewed journals) that leverage EHR data for public health surveillance, epidemiological research, and health services research.
- Developing data science projects, such as applying machine learning techniques to derive insights from electronic health record data, both structured and unstructured.
- Exploring the use of natural language processing to analyze free text clinical notes in electronic health record data.
- Informing data standards for the collection of social determinants of health data from electronic health records.
- Developing fact sheets and reports to highlight key successes of informatics projects.
- Giving internal and external presentations to showcase informatics project successes.
- Conducting literature reviews.

Mentor(s): The mentor for this opportunity is Elizabeth Lundeen (yxj4@cdc.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: 2023/Early 2024. 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 only.

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.






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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.NCCDPHP@orau.org and include the reference code for this opportunity.

Qualifications The qualified candidate should have received a master's or doctoral degree in the one of the relevant fields (e.g. epidemiology, informatics, biostatistics, health services research, or public health). Degree must have been received within the past five years.

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Master's Degree or Doctoral Degree received within the last 60 month(s).
 - **Discipline(s):**
 - **Communications and Graphics Design** ([1](#) )
 - **Computer, Information, and Data Sciences** ([1](#) )
 - **Life Health and Medical Sciences** ([6](#) )
 - **Mathematics and Statistics** ([4](#) )
 - **Social and Behavioral Sciences** ([2](#) )
 - **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).

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.)