

**Opportunity Title:** CDC Epidemiology Fellowship with focus on Spatial Analyses

**Opportunity Reference Code:** CDC-NCCDPHP-2022-0098

**Organization** Centers for Disease Control and Prevention (CDC)

**Reference Code** CDC-NCCDPHP-2022-0098

**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** 4/18/2022 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 Epidemiology and Surveillance Branch, in the Division for Heart Disease and Stroke Prevention (DHDSP), within the National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP) at the Centers for Disease Control and Prevention (CDC) 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 selected participant will have the opportunity to train and gain experience in advanced spatiotemporal studies and health services surveillance with a focus on heart disease and stroke. Projects will address health equity issues, including identifying and studying differences by social and economic context, urban-rural status, and racial/ethnic group.

**Learning Objectives:**

- Learning to create, update, analyze and manage very large datasets
- Training and participating in advanced spatial and/or spatiotemporal analyses of heart disease and stroke morbidity, mortality and risk factors using Bayesian and frequentist approaches
- Gaining experience writing manuscripts for submission to peer-reviewed journals and government reports
- Producing data visualizations of spatiotemporal and health services data



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- Conducting literature reviews
- Presenting the results to internal and external audiences, including professional meetings and/or conferences
- Other related activities as discussed with mentor that further the science base regarding conducting small area analyses, using electronic health record data for surveillance, and advancing CDC's research related to cardiovascular risk factors and outcomes.

**Mentor(s):** The mentor for this opportunity is Michele Casper ([mcasper@cdc.gov](mailto:mcasper@cdc.gov)). If you have questions about the nature of the research please contact the mentor(s).

**Anticipated Appointment Start Date:** April 2022. Start date is flexible.

**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.NCCDPHP@ornl.gov](mailto:ORISE.CDC.NCCDPHP@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 (e.g. public health, epidemiology, biostatistics, or similar field) or be currently pursuing one of the degrees to be received by the end of May 2022. Degree must have been received within the past five years.

Preferred skills:

- Experience analyzing spatial and/or spatiotemporal data
- Experience with studies that address social determinants of health and/or health inequities
- Knowledge/Awareness of Bayesian statistical methods
- Experience using statistical software, such as SAS or R, for data

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analysis

- Experience using ArcGIS or other mapping software packages
- Strong written and oral communication skills

**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.
- **Discipline(s):**
  - **Computer, Information, and Data Sciences** ([3](#) 👁)
  - **Earth and Geosciences** ([1](#) 👁)
  - **Life Health and Medical Sciences** ([3](#) 👁)
  - **Mathematics and Statistics** ([4](#) 👁)
  - **Social and Behavioral Sciences** ([2](#) 👁)