

**Opportunity Title:** CDC Geographic Information Science / Spatial Epidemiology

Fellowship

**Opportunity Reference Code:** CDC-NCCDPHP-2021-0170

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

**Reference Code** CDC-NCCDPHP-2021-0170

**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.

If you have questions, send an email to [ORISE.CDC.NCCDPHP@orau.org](mailto:ORISE.CDC.NCCDPHP@orau.org). Please include the reference code for this opportunity in your email.

**Application Deadline** 7/30/2021 3:00:00 PM Eastern Time Zone

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

A research opportunity is available with the Division of Population Health (DPH), within the National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP) at the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia.

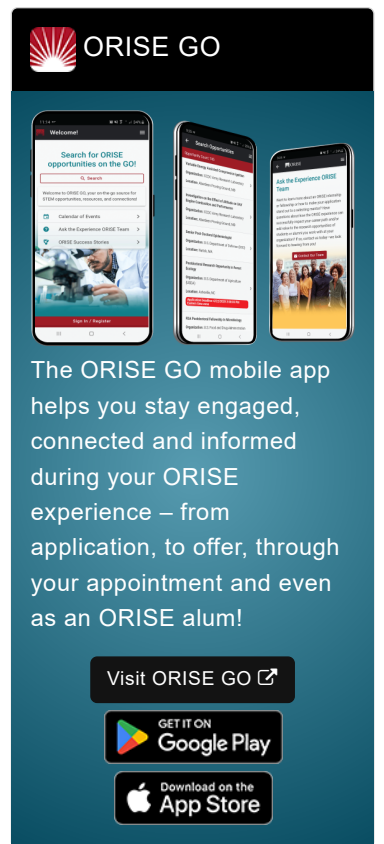
The Centers for Disease Control and Prevention (CDC) is one of the major operation components of the Department of Health and Human Services. CDC works to protect America from health, safety and security threats, both foreign and in the U.S. Whether diseases start at home or abroad, are chronic or acute, curable or preventable, human error or deliberate attack, CDC fights disease and supports communities and citizens to do the same.

The fellow will participate in the PLACES small area estimation (SAE) project that is funded by the Robert Wood Johnson Foundation through CDC Foundation. The PLACES project ([www.cdc.gov/places](http://www.cdc.gov/places)) provides model-based estimates of chronic diseases related measures at county, place (incorporated and census designated), census tract, and ZIP Code tabulation area levels for 50 states and District of Columbia.

Under the guidance of a mentor, the fellow will have opportunities to gain knowledge and experience in US census geography, dealing with large datasets, and advanced spatial epidemiological and statistical studies.

Activities may include:

- Learning to create, update, analyze data from large datasets (e.g. prepare Census population, American Community Survey and geographic data for small area estimation)
- Disseminating SAE data through cloud-based systems, producing data



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visualizations of spatiotemporal data

- Conducting literature reviews
- Obtain experience writing manuscripts of research findings for publication in peer review journals and presentations at professional conferences
- Other related activities as discussed with mentors for spatial analysis and small area estimation

**Anticipated Appointment Start Date: 2021; start date is flexible**

This program, administered by ORAU through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education, was established through an interagency agreement between DOE and CDC. The initial appointment can be up to one year, but may be renewed upon recommendation of CDC contingent on the availability of funds. The participant will receive a monthly stipend commensurate with educational level and experience. Proof of health insurance is required for participation in this program. The appointment is full-time at CDC in the Atlanta, Georgia, area. Participants do not become employees of CDC, DOE or the program administrator, and there are no employment-related benefits.

**Qualifications** The qualified candidate should have received a master's degree in one of the relevant fields, or be currently pursuing the degree with completion by August 2021. Degree must have been received within the past five years.

Preferred skills:

- Experience using ArcGIS or other mapping software packages
- Experience/knowledge in statistical computing software, such as SAS, R and dealing with large dataset in SAS
- Experienced/knowledge using Python programming language
- Knowledge/awareness of multilevel regression model
- Good written and oral communication skills

**Eligibility Requirements**

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Master's Degree received within the last 60 months or anticipated to be received by 8/31/2021 11:59:00 PM.
- **Academic Level(s):** Graduate Students or Post-Master's.
- **Discipline(s):**
  - **Computer, Information, and Data Sciences** (4/👁)
  - **Earth and Geosciences** (1/👁)
  - **Life Health and Medical Sciences** (4/👁)
  - **Mathematics and Statistics** (4/👁)
  - **Social and Behavioral Sciences** (4/👁)