Opportunity Title: CDC Statistics and Data Science Fellowship
Opportunity Reference Code: CDC-NCHS-2020-0195

Organization	Centers for Disease Control and Prevention (CDC)
Reference Code	CDC-NCHS-2020-0195
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.NCHS@orau.org. Please include the reference code for this opportunity in your email.

Application Deadline	9/24/2020 3:00:00 PM Eastern Time Zone
Description	***Applications will be reviewed on a rolling-basis.**

A research opportunity is currently available with the Division of Research and Methodology, within the National Center for Health Statistics (NCHS), at the Centers for Disease Control and Prevention (CDC) in Hyattsville, Maryland.

Under the guidance of a mentor, the selected participant will have the training opportunity to gain experience in statistical modeling and data science methods, including advanced spatio-temporal analyses and hierarchical Bayesian modeling. These activities may include:

- Creating, updating, analyzing and managing very large datasets
- Participating in advanced spatio-temporal analyses of key mortality and natality outcomes (e.g., drug overdose mortality, suicide rates, infant mortality, preterm birth rates) using hierarchical Bayesian modeling approaches
- Contributing to the development of approaches for analyzing data, generating predicted estimates, detecting spatio-temporal outliers, conducting simulations to examine the impact of various analytic choices, etc.
- Writing summaries of methods, results and interpretations for use in government reports and peer-reviewed articles
- Automating statistical programs
- Conducting literature reviews
- Presenting the results to internal and external audiences, including professional meetings and/or conferences
- Contributing to the development of dissemination tools and strategies

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 Hyattsville, Maryland, 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 or doctoral degree in one of the relevant fields, or be currently pursuing one of the degrees and will reach completion by the appointment start date. Degree must have been received within five years of the appointment start date.

Preferred skills:

- Experience/familiarity with analyzing spatial and/or spatiotemporal data
- Experience/familiarity with in the management and analysis of large data sets
- Knowledge/Awareness of Bayesian statistical methods
- Experience/familiarity with using R statistical software for data analysis (knowledge of SAS/Stata may also be helpful)
- Knowledge/Awareness of ArcGIS or other mapping software package

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Master's Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **Mathematics and Statistics** (10 👁)