

**Opportunity Title:** CDC CSELS Disease Surveillance Internship

**Opportunity Reference Code:** CDC-CSELS-2022-0244

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

**Reference Code** CDC-CSELS-2022-0244

**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** 8/11/2022 3:00:00 PM Eastern Time Zone

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

**CDC Office and Location:** A fellowship opportunity is currently available in the Center for Surveillance, Epidemiology, and Laboratory Services (CSELS); at the Centers for Disease Control and Prevention (CDC) located 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:** The selected participant will have the opportunity to learn duties and functions focused on how data for CDC's National Notifiable Diseases Surveillance System (NNDSS) are submitted by jurisdictions, processed, stored, monitored for data quality, and how CDC works collaboratively with jurisdictions and CDC programs to improve the data. The participant will also learn how new data submission standards for nationally notifiable conditions are collaboratively developed and implemented. The participant will have the opportunity to assist staff in supporting NNDSS data collection, management, and dissemination and will learn about health information systems used for surveillance and tools used to support data processing, design, query, data quality, analytics, and data standardization.

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

- Elicit and document technical and programmatic requirements needed to build analytic data visualizations for notifiable disease data
- Assist in the design, testing, validation, and implementation of analytic



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data visualizations to enhance monitoring of NNDSS data

- Integrate the display of NNDSS data with other related data sources, such as National Syndromic Surveillance Program data
- Assist in the development of Standard Operating Procedures, internal documentation, and preparation of guidance documents for data users
- Assist in the development of R programs and other tools for data visualizations that can support jurisdictions and/or CDC programs to monitor notifiable diseases
- Assist in the demonstration of data visualizations to partners
- Use relational SQL databases
- Develop database queries and reports with SQL

**Mentor(s):** The mentor for this opportunity is Kim Raymond ([jpg5@cdc.gov](mailto:jpg5@cdc.gov)). If you have questions about the nature of the research please contact the mentor(s).

**Anticipated Appointment Start Date:** August 1, 2022. 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 and Lawful Permanent Residents (LPR).

**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.CSELS@orau.org](mailto:ORISE.CDC.CSELS@orau.org) and include the reference code for this opportunity.

**Qualifications** The qualified candidate should have received a bachelor's, master's, or doctoral degree in one of the relevant fields. Degree must have been received within the past five years.

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Preferred Skills:

- Excellent communication skills
- Collaboration skills
- Project management and coordination skills
- Ability to contribute to the development of dashboards using off the shelf software such as Power BI and monitor the data in dashboards with Power BI
- Knowledge and experience using R studio, especially building apps using Shiny

**Eligibility**

**Requirements**

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 60 month(s).
- **Academic Level(s):** Post-Bachelor's, Postdoctoral, or Post-Master's.
- **Discipline(s):**
  - **Communications and Graphics Design** (2 )
  - **Computer, Information, and Data Sciences** (10 )
  - **Engineering** (4 )
  - **Life Health and Medical Sciences** (6 )
  - **Mathematics and Statistics** (4 )

**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.)