Opportunity Title: CDC Fellowship in International COVID-19 Data Analysis and Visualization

Opportunity Reference Code: CDC-CGH-2023-0018

Organization	Centers for Disease Control and Prevention (CDC)
Reference Code	CDC-CGH-2023-0018
How to Apply	*Connect with ORISE...on the GO!* Download the new ORISE GO mobile app in the Apple 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.CGH@orau.org. Please include the reference code for this opportunity in your email.
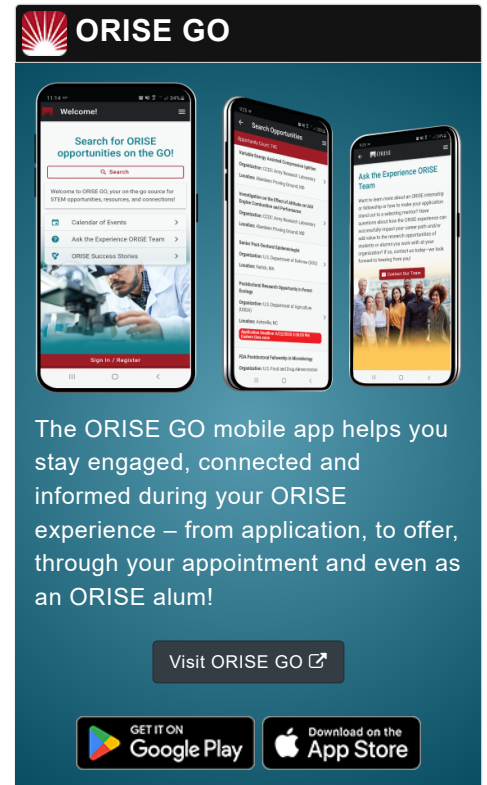
Application Deadline	3/31/2023 3:00:00 PM Eastern Time Zone
Description	***Applications will be reviewed on a rolling-basis.**

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CDC Office and Location: A research opportunity is available in the Center for Global Health (CGH), at the Centers for Disease Control and Prevention (CDC), located in Atlanta, Georgia.

The 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: This exciting opportunity with the Situational Awareness and Visualization (SAVI) team in the Division of Global Health Protection. The SAVI team, in collaboration with others, is responsible for analyzing and visualizing global trends in COVID-19 cases, deaths, hospitalizations, vaccinations, laboratory testing, genetic sequencing, mitigation measures, and more. They also provide situational awareness to CDC's COVID-19 response, as well as to CDC leadership, and other U.S. government agencies. The team also supports other emergency responses and projects as they arise, such as mpox (monkeypox) and Ebola.

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Learning Objectives: Under the guidance of a mentor, the participant will gain knowledge and experience in the following:

- Providing epidemiologic analysis and interpretation of global trends in COVID-19 cases, deaths, testing, genetic sequencing, and other epidemiologic data
- Providing analytic support using the R language. By the end of the Fellowship the Fellow will have gained extensive experience using R, including the R tidyverse and other packages and be able to easily express ideas in valid arguments and compelling visualizations
- Using R Markdown, R Shiny, and other automation tools for the preparation of reports, presentations, dashboards, and emails
- Understand source code and data versioning and hygiene for routine and ad-hoc analyses
- Assisting in the maintenance and development of R packages and Github repositories
- The Fellow will have the opportunity to acquire advanced Power BI skills, including data modeling and DAX (Data Analysis Expressions).

Mentor(s): The mentor(s) for this opportunity is James Fuller (kux9@cdc.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: May 1, 2023. 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, 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.

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

Qualifications

The qualified candidate should be currently pursuing or have received a bachelor's, master's, or doctoral degree in one of the relevant fields. Degree must have been received within five years of the appointment start date.

Preferred Skills:

- Knowledge of the R computing language and environment
- Experience with data wrangling (joining, filtering, reshaping, temporal smoothing, etc.)
- Experience with data visualization software, such as R, Power BI or Tableau
- Proven ability to use written and oral communication techniques to make presentations, provide program consultation, respond to program inquiries, and write reports and manuscripts to further disseminate scientific knowledge
- Ability to manage interpersonal relationships with persons of diverse backgrounds in a mature manner

Eligibility Requirements

- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 👁)
  - **Communications and Graphics Design** (2 👁)
  - **Computer, Information, and Data Sciences** (17 👁)
  - **Earth and Geosciences** (21 👁)
  - **Engineering** (27 👁)
  - **Environmental and Marine Sciences** (14 👁)
  - **Life Health and Medical Sciences** (48 👁)
  - **Mathematics and Statistics** (11 👁)
  - **Physics** (16 👁)
  - **Science & Engineering-related** (2 👁)
  - **Social and Behavioral Sciences** (28 👁)

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

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who, since the previous CDC employment, have obtained a new
STEM degree which necessitates training in a new field.)