

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

Opportunity Reference Code: CDC-CGH-2022-0110

Organization Centers for Disease Control and Prevention (CDC)

Reference Code CDC-CGH-2022-0110

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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 4/25/2022 3:00:00 PM Eastern Time Zone

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

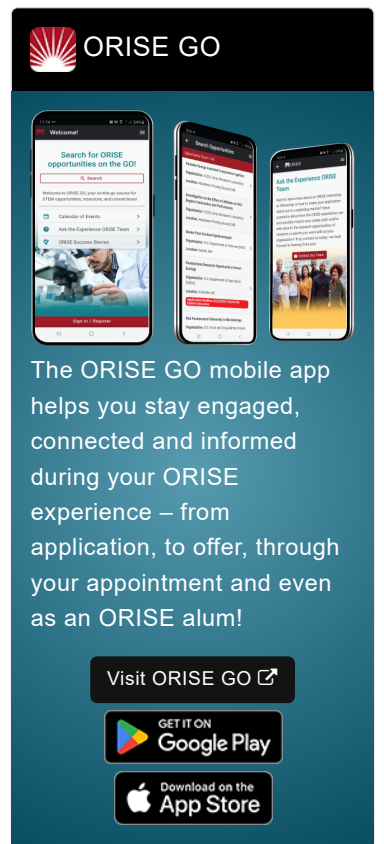
CDC Office and Location: A research opportunity is available with the COVID-19 International Task Force in the Center for Global Health (CGH), at the Centers for Disease Control and Prevention (CDC), located in Atlanta, Georgia.

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: This exciting opportunity with the CDC COVID-19 International Task Force is meant to support CDC's global response efforts. The fellow will be part of the Situational Awareness and Visualization (SAVI) team. 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.


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


- Providing analysis and interpretation of global trends in COVID-19 cases, deaths, testing, and other epidemiologic data
- Providing analytic support using the R language. By the end of the Fellowship the Fellow will have at least intermediate data analysis and visualization skills using R, including facility with the R tidyverse and




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other packages and be able to easily express ideas in valid statistical arguments and compelling visualizations

- Using R Markdown and other automation tools for the preparation of reports, presentations, dashboards, and emails
- 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 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: April 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, 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.

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 have received a bachelor's, master's, or doctoral degree in one of the relevant fields, or be currently pursuing one of the degrees to be completed by April 1, 2022. Degree must have been received within the past five years.

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Preferred Skills:

- Knowledge of the R computing language and environment
- Experience with data wrangling (joining, filtering, reshaping, 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 received within the last 60 months or anticipated to be received by 4/1/2022 12:00:00 AM.
- **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](#))
 - **Social and Behavioral Sciences** ([29](#))