

Opportunity Title: Pandemic Influenza and Community Interventions

Fellowship

Opportunity Reference Code: CDC-DGMQ-2019-0052

Organization Centers for Disease Control and Prevention (CDC)

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How to Apply 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
- Two educational or professional references

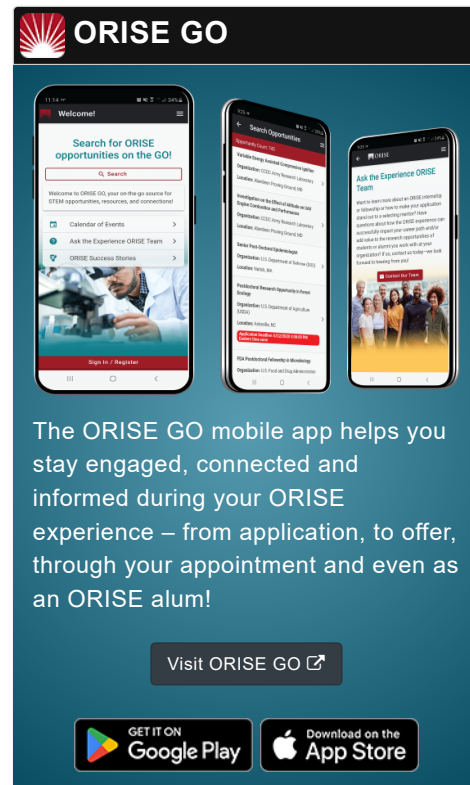
All documents must be in English or include an official English translation.

If you have questions, send an email to CDCrpp@orau.org. Please include the reference code for this opportunity in your email.

Description A fellowship opportunity is available in Community Interventions for Infection Control Unit (CI-ICU), Division of Global Migration and Quarantine (DGMQ), National Center for Emerging and Zoonotic Infectious Diseases, at the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia.

CI-ICU plays a key role in the development of recommendations on use of nonpharmaceutical interventions (NPIs) for mitigating the transmission of pandemic influenza. NPIs that all people should practice at all times are particularly important during a pandemic. These everyday preventive actions include staying home when sick, covering coughs and sneezes, frequent and appropriate hand-washing, and routine cleaning of frequently touched surfaces. Community-level interventions can be added during pandemics and implemented in a graded fashion depending on the severity of the pandemic; these include measures aimed to reduce social contacts between people in schools, workplaces, and other community settings.

The fellow will train with DGMQ, CI-ICU on development of public health programs for pandemic influenza planning, preparedness and response as well as evaluation of public health projects, epidemiological investigations, and literature reviews. This training will include assessing the feasibility, acceptability, and impact of school closures and other nonpharmaceutical interventions; reporting performance measures for science, policy, and communication activities; monitoring dissemination of the non-pharmaceutical guidance for



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pandemic influenza preparedness and response for state and local health department usage; developing materials used in unit and/or CDC-wide events and activities for use in public health policy or communication; and collaborating with epidemiologists, health scientists, health communicators, and medical officers. Specific opportunities may include:












- Conducting agent-based modeling of influenza transmission and the effect of NPIs.
- Conducting social network analysis to assess contact rates and mixing patterns in schools and workplaces that are important input parameters for agent-based models.
- Conducting literature reviews on nonpharmaceutical interventions.

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 is for 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

- PhD received within the last five years, in science, public health, or related field.
- Experience conducting mathematical modeling of infectious diseases, including agent-based models, desired
- Experience conducting social network analysis desired
- Experience using programming languages such as R, C, and Fortran desired

Eligibility Requirements

- **Degree:** Doctoral Degree received within the last 60 month(s).
- **Academic Level(s):** Postdoctoral.
- **Discipline(s):**
 - **Chemistry and Materials Sciences** (12 )
 - **Communications and Graphics Design** (2 )
 - **Computer, Information, and Data Sciences** (16 )
 - **Earth and Geosciences** (21 )
 - **Environmental and Marine Sciences** (14 )
 - **Life Health and Medical Sciences** (45 )
 - **Mathematics and Statistics** (10 )
 - **Other Non-Science & Engineering** (1 )
 - **Physics** (16 )
 - **Science & Engineering-related** (1 )
 - **Social and Behavioral Sciences** (3 )

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