

Opportunity Title: CDC Molecular Epidemiology Laboratory Fellowship

Opportunity Reference Code: CDC-NCEZID-2022-0134

Organization Centers for Disease Control and Prevention (CDC)

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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 5/23/2022 3:00:00 PM Eastern Time Zone

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

CDC Office and Location: A research opportunity is currently available in the Chronic Viral Disease Branch (CVDB) within the National Center for Zoonotic and Emerging Infectious Diseases (NCEZID) at the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia.

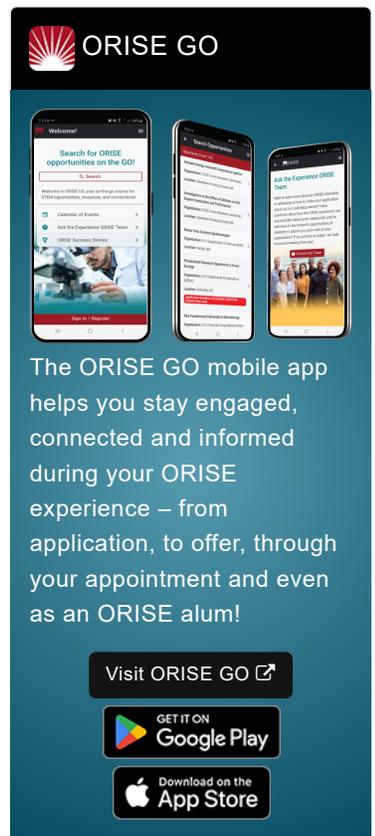
Research Project: The selected participant will join laboratory staff in projects related to Chronic Fatigue Syndrome (CFS) and Human Papillomavirus (HPV). S/he will participate with multi-site clinical studies, biorepository establishment and development of specimen management databases, specimen processing, molecular testing, sequence and data analyses, and laboratory quality management systems.

Learning Objectives: Under the guidance of a mentor, specific training opportunities may include:

- Development/management of biorepository databases like Freezerworks. This can involve building adequate IT infrastructure to track and monitor specimen location, handling, processing, checking-in and checking-out of biological materials and associated data sets representing a number of large-scale case-control and longitudinal studies
- Developing specimen life-cycle attributes with the knowledge of relational database structures
- Cataloguing, processing, and storing biologic samples while observing all safety guidelines
- Nucleic acid extraction (DNA and RNA), purification and evaluation of quality
- Laboratory testing that employs a variety of molecular techniques (such as PCR, real-time PCR, and next generation sequencing) related to genotyping/variant determination, gene copy number determination, DNA methylation and gene expression projects; metabolic, cytokine and



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other assays may also be studied

- Participating in assay optimization and development to carry out molecular epidemiologic studies that may be focused on pathways involved with neuro-immune regulation, ion channels, and transporters
- Documentation of laboratory activities, data, summaries
- Quality control and safety procedures necessary for the performance of laboratory protocols and working with biohazard materials
- Participating in laboratory quality management activities
- Participating in the weekly Branch meetings

Mentor(s): The mentor(s) for this opportunity is Mangalathu S.

Rajeevan (mor4@cdc.gov). Please contact them if you have questions about the nature of this research.

Anticipated Appointment Start Date: June 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) only.

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

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

Preferred skills:

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- Prior experience with biorepository establishment, database structure and management
- Prior experience with molecular biology methods including next generation sequencing, and in the use of bioinformatics pipelines
- Familiarity with biological pathways

- Eligibility Requirements**
- **Citizenship:** LPR or U.S. Citizen
 - **Degree:** Bachelor's Degree or Master's Degree received within the last 60 month(s).
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([1](#))
 - **Computer, Information, and Data Sciences** ([2](#))
 - **Engineering** ([2](#))
 - **Life Health and Medical Sciences** ([48](#))