

Opportunity Title: CDC Molecular Epidemiology Laboratory Fellowship

Opportunity Reference Code: CDC-NCEZID-2020-0056

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
- 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.NCEZID@ornl.gov. Please include the reference code for this opportunity in your email.

Application Deadline 2/14/2020 3:00:00 PM Eastern Time Zone

Description *Applications will be reviewed on a rolling basis.

A research opportunity is available with the National Center for Emerging and Zoonotic Infectious Diseases (NCEZID) at the Centers for Disease Control and Prevention (CDC) located in Atlanta, Georgia.

Under the guidance of a mentor, 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 system. 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. Develop specimen life-cycle attributes with the knowledge of relational database structure.
- 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 other assays may also be studied. Participate in assay optimization and development to carry out molecular epidemiologic studies.
- Documentation of laboratory activities, data, summaries.
- Quality control and safety procedures necessary for the performance of laboratory protocols and working with biohazard mate

Anticipated Appointment Start Date: March 2, 2020

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 inter-



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agency agreement between DOE and CDC. The initial appointment can be up to 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 The qualified candidate should have received a 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:

- 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 pipeline

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Master's Degree or Doctoral Degree received within the last 60 month(s).
- **Discipline(s):**
 - **Chemistry and Materials Sciences** ([1](#))
 - **Computer, Information, and Data Sciences** ([2](#))
 - **Engineering** ([2](#))
 - **Environmental and Marine Sciences** ([1](#))
 - **Life Health and Medical Sciences** ([45](#))