

Opportunity Title: Molecular Epidemiology and Bioinformatics Laboratory

Fellowship

Opportunity Reference Code: CDC-NCHHSTP-DVH-2017-0053

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 project is available in the Laboratory Branch, Viral Hepatitis Division, within the National Center for HIV, Hepatitis, STD, and TB Prevention (NCHHSTP) at the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia.

The Molecular Epidemiology and Bioinformatics Laboratory (Division of Viral hepatitis) has recently developed a promising new method to detect recent Hepatitis C Virus (HCV) infections based on the analysis of the host's mitochondrial DNA (mtDNA). The accurate detection of recent infections would greatly improve HCV outbreak analysis and surveillance. We currently have a research fellowship position for a Laboratory scientist, who will get involved in the development and optimization of a high-throughput Next-Generation Sequencing (NGS) assay for the detection of recent infections.

The fellow will have the opportunity to be involved in the following activities:

- Experimental design: involves the design of a protocol for sequencing the full mtDNA genome.
- Optimization: involves the optimization and automation of this NGS assay in order to make it accurate and high-throughput.
- Sample processing: Involves the weekly high-throughput laboratory processing of Viral Hepatitis samples.

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.

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- Qualifications**
- A Ph.D. in Molecular Biology or related field within the last five years.
 - The fellow must be able to understand and follow experimental protocols and plan experiments of varying complexity.
 - Familiarity with techniques such as RT-PCR, Real-time PCR and NGS.
 - Knowledge about the Illumina sequencing platform, including sample multiplexing.
 - Some experience with automated sample-processing robots preferred.

- Eligibility Requirements**
- **Degree:** Doctoral Degree received within the last 60 month(s).
 - **Discipline(s):**
 - **Engineering** ([1](#))
 - **Life Health and Medical Sciences** ([8](#))
 - **Mathematics and Statistics** ([2](#))