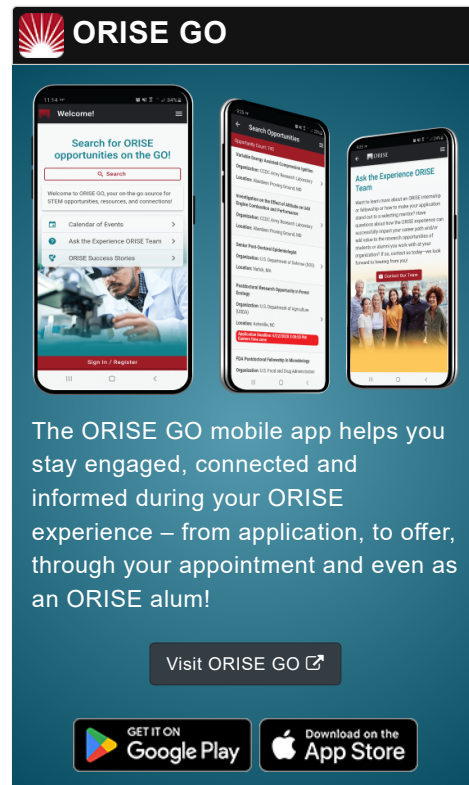


**Opportunity Title:** Molecular Epidemiology and Bioinformatics Laboratory

Fellowship

**Opportunity Reference Code:** CDC-DVH-2019-0058



**Organization** Centers for Disease Control and Prevention (CDC)

**Reference Code** CDC-DVH-2019-0058

**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](mailto:CDCrpp@orau.org). Please include the reference code for this opportunity in your email.

**Application Deadline** 7/19/2019 3:00:00 PM Eastern Time Zone

**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 built a fully automated laboratory for advance molecular genetic characterization of hepatotropic viruses. The accurate detection of viral hepatitis transmissions would greatly improve outbreak investigations and surveillance. We currently have a research fellowship opportunity for a Laboratory scientist, who will train under the guidance of a mentor in the development and optimization of fully automated, walk-away, high-throughput Next-Generation Sequencing (NGS) methods for detection of viral hepatitis transmission networks.

Under the guidance of a mentor, the participant will be involved in the following:

- Experimental design: involves the design of a fully automated, walk-away protocol for sequencing different subgenomic regions of hepatotropic viruses.
- Optimization: involves the optimization and validation of NGS methods 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 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 must have received a master's or doctoral degree in

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molecular biology or a related field. Degree must have been received within five years of the appointment start date.

Preferred skills:

- Experience with automated platforms
- Ability to understand and follow experimental protocols and plan experiments of varying complexity
- Experience on amplicon deep sequencing using NGS-based approaches
- Experience designing, developing and implementing methods for the MiSeq Illumina sequencing platform, including but not limited to sample multiplexing
- Intermediate Visual Basic Programming
- Basic/Intermediate SED, AWK, Python and Perl programming

#### **Eligibility Requirements**

- **Degree:** Master's Degree or Doctoral Degree received within the last 60 month(s).
- **Discipline(s):**
  - **Life Health and Medical Sciences** (3 )