

**Opportunity Title:** CDC Vector-Borne Bacterial Diseases Entomology and Ecology Fellowship

**Opportunity Reference Code:** CDC-DVBD-2020-0047



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

**Reference Code** CDC-DVBD-2020-0047

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

**Application Deadline** 1/20/2020 3:00:00 PM Eastern Time Zone

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

A research opportunity is available with the Entomology and Ecology team in the Bacterial Diseases Branch within the Division of Vector-Borne Diseases (DVBD) of the National Center for Emerging and Zoonotic Infectious Diseases (NCEZID) at the Centers for Disease Control and Prevention (CDC) in Fort Collins, Colorado.

The Entomology and Ecology Team is responsible for public health and research activities aimed at diagnosis and characterization of vector-borne bacterial diseases, including Lyme disease, relapsing fever, plague, and tularemia. The selected participant will participate in laboratory and field studies related to tick and tick-borne pathogen biology, surveillance and control. Under the guidance of a mentor (Entomology and Ecology Team personnel), the selected participant will gain experience in one or more of the following:

- Pathogen detection in ticks using established protocols (DNA extraction, real-time PCR, sequencing)
- Tick identification using published taxonomic keys and molecular assays designed to differential morphologically similar species
- Field collection of ticks
- Maintaining records in electronic databases, and
- Mapping and modeling tick distributions within a GIS framework.

There may also be opportunities to participate in assay development, research on tick/pathogen control methods, enzootic maintenance of Lyme disease spirochetes, laboratory-based vector competency/transmission efficiency studies, and/or flea identification and associated fieldwork.

The learning objectives of the selected participant's appointment will be the ability to conduct predefined research independently, summarize results in tabular or text formats, prepare draft manuscripts in a publishable quality to enhance the participant's professional experience and career path, and comply with laboratory

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quality control policies. The participant will have opportunities to attend CDC seminars and training courses to enhance existing knowledge in microbiology/biological sciences, epidemiology and public health.

**Anticipated Appointment Start Date: February 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-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 Fort Collins, Colorado 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 degree in one of the relevant fields. Degree must have been received within five years of the appointment start date.

Preferred skills:

- Previous experience working with arthropods (ticks, mosquitoes or fleas), molecular methods, or GIS
- Previous experience working with laboratory animals

**Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
- **Degree:** Master's Degree received within the last 60 month(s).
- **Discipline(s):**
  - **Earth and Geosciences** (1 )
  - **Life Health and Medical Sciences** (6 )