

Opportunity Title: CDC Vector-Borne Bacterial Diseases Entomology and Ecology Internship
Opportunity Reference Code: CDC-NCEZID-DVBD-2024-0097A

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.

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

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

The Centers for Disease Control and Prevention (CDC) is one of the major operation components of the Department of Health and Human Services. CDC works to protect America from health, safety and security threats, both foreign and in the U.S. Whether diseases start at home or abroad, are chronic or acute, curable or preventable, human error or deliberate attack, CDC fights disease and supports communities and citizens to do the same.

Research Project: The Entomology and Ecology Team is responsible for public health and research activities aimed at assessing when and where people are at risk for vector-borne bacterial diseases, including Lyme disease, relapsing fever, plague, and tularemia, and designing and evaluating prevention strategies. The selected fellowship participant will participate in tick testing to support national tick surveillance efforts. The fellow will be trained in nucleic acid extraction, amplification, next generation sequencing, analysis, data and specimen management and reporting.

Learning Objectives: The learning objectives of the selected participant's appointment will be the ability to conduct pathogen detection assays following established protocols, summarize results in tabular and text formats, enter lab results into relevant internal databases, gain training in lab management practices and comply with laboratory quality control policies.

The participant will have opportunities to attend CDC seminars and training courses to enhance existing knowledge in microbiology/biological sciences,



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epidemiology and public health. The selected individual will learn all procedures involved in the research.

Mentor(s): The mentor for this opportunity is Sarah Maes (hyn8@cdc.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: July 15, 2024. 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: Stipend rates may vary based on numerous factors, including opportunity, location, education, and experience. If you are interviewed, you can inquire about the exact stipend rate at that time and if selected, your appointment offer will include the monthly stipend rate.

Citizenship Requirements: This opportunity is available to U.S. citizens 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 (Ecology, Entomology, Biology, Microbiology, or another relevant field). Degree must have been received within the past five years.

Preferred skills:

- Microbiological and diagnostic techniques, molecular biological techniques
- Experience with arthropods (ticks, mosquitoes, or fleas)

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- Effectively document and communicate testing results verbally and in writing
- Proficient in laboratory skills, such as PCR, DNA extraction
- Research collaboratively with colleagues
- Previous experience working in a molecular lab (nucleic acid extraction, PCR, sequencing).

Eligibility • **Citizenship:** U.S. Citizen Only

Requirements • **Degree:** Bachelor's Degree or Master's Degree received within the last 60 month(s).

- **Discipline(s):**
 - **Environmental and Marine Sciences** ([3](#))
 - **Life Health and Medical Sciences** ([51](#))

Affirmation I certify that I have not previously been employed by CDC or by a contractor working directly for CDC. I understand that CDC does not permit individuals with a prior employment relationship with CDC or its contractors to participate as trainees in the ORISE program. (Exceptions may be granted for individuals who, since the previous CDC employment, have obtained a new STEM degree which necessitates training in a new field.)