

Opportunity Title: CDC Zoonoses and Discovery for Viral Causes of Infectious Diseases

Opportunity Reference Code: CDC-NCIRD-2024-0216

Organization Centers for Disease Control and Prevention (CDC)

Reference Code CDC-NCIRD-2024-0216

How to Apply *To submit your application, scroll to the bottom of this opportunity and click **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.

Connect with ORISE...on the GO! Download the new ORISE GO mobile app in the [Apple App Store](#) or [Google Play Store](#) to help you stay engaged, connected, and informed during your ORISE experience and beyond!

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

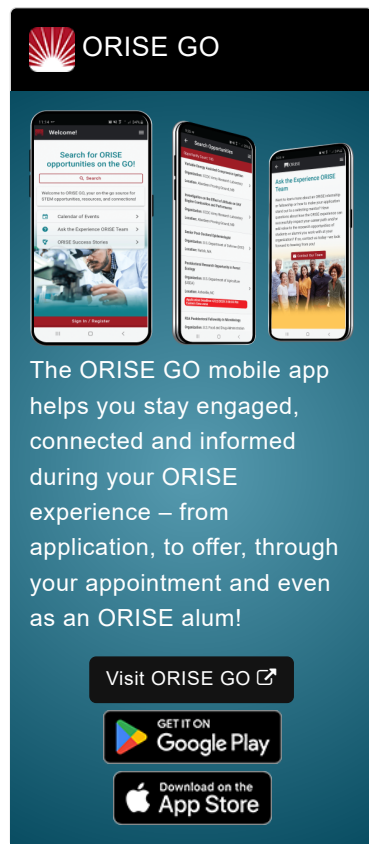
CDC Office and Location: A research opportunity is available in the Centers for Disease Control and Prevention (CDC), with the Zoonosis and Discovery Team, Coronavirus and Respiratory Viruses Laboratory Branch (CRVLB), Coronavirus and Other Respiratory Viruses Division (CORVD), within the National Center for Immunization and Respiratory Diseases (NCIRD) located in Atlanta, Georgia.

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 candidate will participate in all aspects of the respiratory virus laboratory's research, including detection, characterization, and molecular epidemiology of known, emerging and novel human respiratory virus from outbreaks or sporadic cases of respiratory diseases. The candidate will collaborate with a growing team of virologists, bioinformaticians, informaticians, and epidemiologists.

Learning Objectives: Under the guidance of a mentor, the participant will be involved in the following training activities:

- Participate in laboratory research which will result in the development and application of advanced molecular techniques and high through sequencing analysis which will detect and characterize both known and



Opportunity Title: CDC Zoonoses and Discovery for Viral Causes of Infectious

Diseases

Opportunity Reference Code: CDC-NCIRD-2024-0216

novel emerging viruses

- Participate in designing new protocols, including analysis of scientific literature and protocols, testing new reagents and assays to develop and validate a suite of advanced molecular methods to provide comprehensive, pan-viral detection and genome sequencing capability
- Learn to apply optimized and validated various molecular techniques to rapidly identify and characterize viral agents in support of outbreak investigation of both known and unknown viral etiology, human disease surveillance and etiology study, and zoonotic emerging disease surveillance study
- Collaborate closely with bioinformaticians to evaluate available bioinformatics tools to enhance existing NGS data analysis pipelines, provide data analysis to sequencing data generated from sequencing including Sanger sequencing, metagenomic sequencing and high through targeted genomic sequencing
- Gain experience in preparing and delivering written and oral reports in both informal and formal settings.
- Learn to prepare results for publication in a variety of journals
- Participate in activities associated with lab safety, specimen and laboratory quality management system (QMS)

Mentor(s): The mentor for this opportunity is Sue Tong (sot1@cdc.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: 2024/2025. 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, Lawful Permanent Residents (LPR), and foreign nationals. Non-U.S. citizen applicants should refer to the [Guidelines for Non-U.S. Citizens Details page](#) of the program website for information about the valid immigration statuses that are acceptable for program participation.

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

Opportunity Title: CDC Zoonoses and Discovery for Viral Causes of Infectious Diseases




Opportunity Reference Code: CDC-NCIRD-2024-0216

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.NCIRD@orau.org and include the reference code for this opportunity.

Qualifications The qualified candidate should be currently pursuing or have received a doctoral degree in the one of the relevant fields (e.g. microbiology, molecular biology, virology or a related discipline). Degree must have been received within the past five years or is anticipated to be received by 12/31/2024.

- Eligibility Requirements**
- **Degree:** Doctoral Degree received within the last 60 months or anticipated to be received by 12/31/2024 12:00:00 AM.
 - **Discipline(s):**
 - **Communications and Graphics Design** ([1](#) )
 - **Computer, Information, and Data Sciences** ([4](#) )
 - **Life Health and Medical Sciences** ([6](#) )

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.)