

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

**Opportunity Reference Code:** CDC-NCIRD-2024-0136

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

**Reference Code** CDC-NCIRD-2024-0136

**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.
- A copy of an abstract or reprint of an article

All documents must be in English or include an official English translation.

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

**CDC Office and Location:** A fellowship is available with 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 agencies and operations component 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. The mission of the [NCIRD](#) is the prevention of disease, disability, and death through immunization and by control of respiratory and related diseases.


Read More about NCIRD and its Divisions at <https://www.cdc.gov/ncird/index.html>


**Research Project:** A fellowship is available with Zoonosis and Discovery Team, CRVLB, CORVD within NCIRD. The candidate will participate in all aspects of the respiratory virus laboratory's research, including detection, characterization, and molecular epidemiology analysis of known, emerging and novel human respiratory viruses from outbreaks or sporadic cases of respiratory diseases. The candidate will collaborate with a team of virologists, bioinformaticians, informaticians, and epidemiologists and


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analyze data from high throughput targeted and non-targeted genomic sequencing.

**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 novel emerging viruses
- Participates 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
- Apply various optimized and validated 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 studies, and zoonotic emerging disease surveillance studies.
- 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
- Prepare and deliver written and oral reports in both informal and formal settings.
- Prepare results for publication in a variety of journals
- Participates in activities associated with lab safety, specimen and laboratory quality management system (QMS)

**Mentor(s):** The mentor for this opportunity is Robin Scarborough ([ryt2@cdc.gov](mailto:ryt2@cdc.gov)). If you have questions about the nature of the research, please contact the mentor(s).

**Anticipated Appointment Start Date: August 1, 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, 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.

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**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.NCIRD@orau.org](mailto:ORISE.CDC.NCIRD@orau.org) and include the reference code for this opportunity.

**Qualifications** The qualified candidate should 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.

**Preferred skills:**

- Strong background and knowledge in molecular biology, virology, microbiology and molecular evolution
- Laboratory experience in developing, validating, implementing PCR-, NGS-based and other molecular assays
- Strong verbal and written communication skills in English
- Experience with infectious materials in biosafety level 2 or above laboratory
- Experience with bioinformatics and molecular evolution are a plus

- Eligibility Requirements**
- **Degree:** Doctoral Degree received within the last 60 month(s).
  - **Discipline(s):**
    - **Communications and Graphics Design** (2 )
    - **Computer, Information, and Data Sciences** (4 )
    - **Engineering** (1 )
    - **Environmental and Marine Sciences** (5 )
    - **Life Health and Medical Sciences** (8 )

**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.)