

Opportunity Title: CDC Poxvirus and Rabies Bioinformatics Research Fellowship

Opportunity Reference Code: CDC-NCEZID-DHCPP-2023-0047

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.

Application Deadline 7/3/2023 3:00:00 PM Eastern Time Zone

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

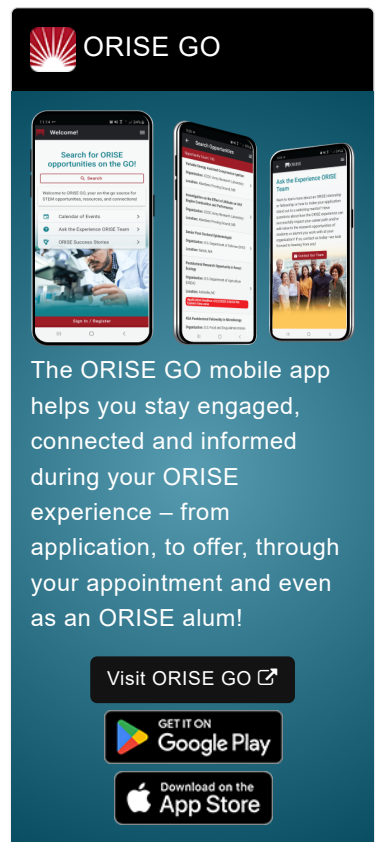
CDC Office and Location: A research and training opportunity is available in the Poxvirus and Rabies Branch (PRB), Division of High-Consequence Pathogens and Pathology (DHCPP) of the National Centers for Emerging and Zoonotic Infectious Diseases (NCEZID) at the Centers for Disease Control and Prevention (CDC) 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: An ORISE Fellowship Opportunity is currently available for a highly motivated individual to carry out projects related to clinical diagnostic testing and genomic sequencing of poxviruses and rabies virus in the Poxvirus and Rabies Branch in the Division of High-Consequence Pathogens and Pathology in the National Center for Emerging and Zoonotic Infectious Diseases.


Learning Objectives: The participant will collaborate with PRB staff to:


- Improve sequence analysis pipelines and workflows by improving functionality, visualization and tools for specific problems.
- Build and maintain data systems and pipelines for organizing and analyzing genomic, phenotypic and other data.
- Engage with team members, public sequence data repositories and collaborators around the world to investigate and resolve data quality concerns in a timely manner.
- Conduct genomic epidemiologic studies on the diversity and evolution of viruses to assess the risk of emerging variants towards current




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diagnostic tests, therapeutics or vaccines

- Use mathematical and computational approaches to understand the evolutionary and epidemiological patterns of viruses.
- Ensure the appropriate genomic analysis methods, procedures, techniques, and applicable quality controls are correctly conducted in accordance with standard protocols.
- Collaborate with partners in U.S. and international public health laboratories and industry
- Prepare reports, summaries, presentations, papers and other documents to highlight findings, accomplishments, and surveillance data.

Mentor(s): The mentor(s) for this opportunity is Dr. Yu Li (lay4@cdc.gov). Please contact them if you have questions about the nature of this research.

Anticipated Appointment Start Date: **March 17, 2023.** 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 up to 4 years upon recommendation of CDC and is contingent on the availability of funds.

Level of Participation: The appointment is full-time.

Participant Stipend: The participant will receive a monthly stipend commensurate with educational level and experience. **The current stipend for this opportunity is up to ~ \$120,000 per year.**

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 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

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code for this opportunity.

Qualifications The qualified candidate should have received a bachelor's, master's, or doctoral degree in one of the relevant fields (e.g. Bioinformatics, Computational Biology, Computer Science, Microbiology, Mathematics), or be currently pursuing one of the degrees with completion before May 31, 2023. Most recent degree must have been received in the past five years.

Preferred Skills:

- 3-5 years of work experience using a programming language such as Perl, Python, or R.
- Expertise in pipeline development (e.g. Bash, NextFlow) and bioinformatic topics (e.g. phylogenetics, protein modeling, microbiome analysis), fluency with Linux/Unix and core command line utilities, including BASH scripting is preferred.

- Eligibility Requirements**
- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 60 months or anticipated to be received by 5/31/2023 11:59:00 PM.
 - **Discipline(s):**
 - **Computer, Information, and Data Sciences** ([17](#))
 - **Life Health and Medical Sciences** ([11](#))

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.)