

Opportunity Title: CDC Immunology Laboratory Internship
Opportunity Reference Code: CDC-NCEZID-DHCPP-2022-0219

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 9/30/2022 3:00:00 PM Eastern Time Zone

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

CDC Office and Location: Two laboratory based training fellowship opportunities are currently available in the Chronic Viral Diseases Branch (CVDB) within the Division of High-Consequence Pathogens and Pathology (DHCPP) of the National Center 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: Assisting the CVDB Immunology Laboratory, the participant will be trained on laboratory tasks including antigen production, specimen processing, and sample testing and archiving in support of human papillomavirus (HPV) seroepidemiology, and vaccine implementation studies.

Learning Objectives: Under the guidance of a mentor, specific training activities may include but are not limited to:

- Training on specimen management which involves use of appropriate equipment and software for cataloging, processing and storing biologic samples received in the laboratory while observing all safety guidelines
- Performing DNA purification, tissue-culture and HPV virus-like particle production and purification
- Performing Enzyme Linked Immunosorbent Assays (ELISA) and other immunologic and molecular assays for detection of immune response to HPV.



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- Performing quality control and safety procedures necessary for the performance of laboratory protocols involved in working with biohazard materials
- Training on good documentation practices as well as record management of both hardcopy and electronic copies of laboratory notebooks detailing experiments and results, and submitting reports of tasks performed as they are requested
- Data analysis using available software and an opportunity to develop skills in R programming
- Training on laboratory quality management activities and data management as required to produce reproducible scientific data
- Attending weekly departmental and CDC-wide meetings to broaden scientific knowledge

Mentor(s): The mentor(s) for this opportunity is Gitika Panicker (dhv1@cdc.gov). Please contact them if you have questions about the nature of this research.

Anticipated Appointment Start Date: July 11, 2022. 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: The participant will receive a monthly stipend commensurate with educational level and experience.

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

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the application process please email ORISE.CDC.NCEZID@oraui.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, or be currently pursuing one of the degrees with completion before the appointment start date. Degree must have been received within five years of the appointment start date.

Preferred Skills:

- Experience with basic laboratory skills and universal safety precautions
- Experience with Microsoft Excel and Microsoft Access
- Some experience with coding language R or Python
- Good oral and written communication skills

Eligibility Requirements

- **Degree:** Bachelor's Degree or Master's Degree received within the last 60 months or anticipated to be received by 7/11/2022 11:59:00 PM.
- **Discipline(s):**
 - **Engineering** ([1](#) 👁)
 - **Life Health and Medical Sciences** ([48](#) 👁)

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.)