

Opportunity Title: CDC Laboratory Database Fellowship
Opportunity Reference Code: CDC-NCEZID-2022-0061-A

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 5/31/2022 3:00:00 PM Eastern Time Zone

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

CDC Office and Location: A fellowship opportunity is currently available with the Chronic Viral Diseases Branch (CVDB), Division of High-Consequence Pathogens and Pathology (DHCPP) at the National Center for Emerging and Zoonotic Infectious Diseases (NCEZID) at the Centers for Disease Control and Prevention (CDC) 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: Under mentor guidance, the fellow will be trained in public health laboratory database management. The fellow may learn how to apply their academic education in computer science to meet user needs and policy requirements in a laboratory setting. The fellow will support laboratory databases that are centralized, standardized, scalable, allow process automation, meet regulatory requirements, integrate studies and assay platforms, ensure data integrity, and configured to meet end user needs. Training will include the data life cycle of laboratory samples from accessioning through inventory management, laboratory experiment templates, raw assay output, data entry, reporting and finishing with data archiving.

Learning Objectives: The participant will develop experience with an enterprise level laboratory information management system (LIMS), a custom structured query language (SQL) database, RMarkdown reports and other systems. In addition to mentor guidance, the fellow's development will be supported by various resources at CDC including a team of public health laboratory technologists, internet technology (IT)



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security, Quality Management Systems (QMS) officer, CDC/ATSDR R User Group, and Office of Scientific Computing and Bioinformatics Support.

Mentor(s): The mentor for this opportunity is Troy Querec (hep0@cdc.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: June 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 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, or be currently pursuing one of the degrees with completion by the end of June 2022. Degree must have been received within five years of the appointment start date.

Preferred skills:

- Prior education and practical experience with SQL
- Experience with additional programming languages such as R, Python, and Visual Basic for Applications (VBA)
- Experience with relational databases
- Applied coding experience outside of the classroom, such as an undergraduate capstone project, master's thesis, internship project or

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work

- Previous exposure to clinical, public health or academic laboratory research and experience using coding languages to build visualization and reporting tools (e.g. Rservers, Rshiny, RMarkdown, and PowerBI)
- Experience with code repositories (Git)
- Experience with Microsoft Office, particularly Excel and Access
- Good written and oral communication skills
- Ability to work well on a team
- Interest in public health research

**Eligibility
Requirements**

- **Degree:** Bachelor's Degree or Master's Degree received within the last 60 months or anticipated to be received by 6/30/2022 11:59:00 PM.
- **Discipline(s):**
 - **Computer, Information, and Data Sciences** ([17](#) 👁)
 - **Mathematics and Statistics** ([11](#) 👁)