

Opportunity Title: CDC Fellowship in Water-Soluble Vitamin Biomarker Method Validation, Implementation, and Application to Large-Scale Population Studies
Opportunity Reference Code: CDC-2026-0095

Organization Centers for Disease Control and Prevention (CDC)

Reference Code CDC-2026-0095

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!

Application Deadline 11/6/2026 3:00:00 PM Eastern Time Zone

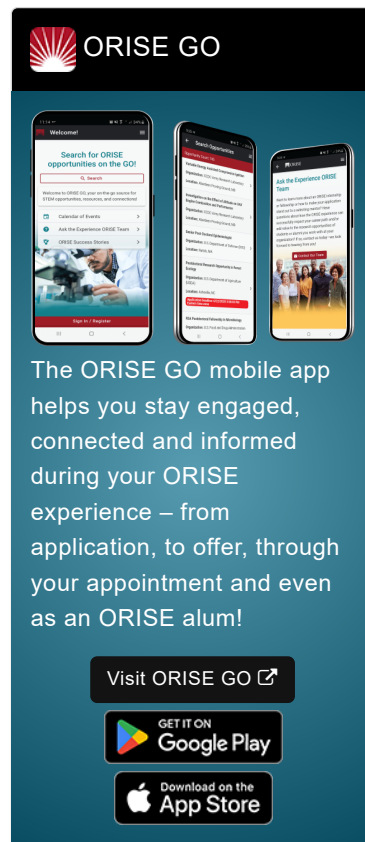
Description ***Applications will be reviewed on a rolling-basis.**

CDC Office and Location: A research opportunity is available with the National Center for Environmental Health (NCEH) 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 protects 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. CDC increases the health security of our nation. As the nation's health protection agency, CDC saves lives and protects people from health threats. To accomplish its mission, CDC conducts important science and provides health information that protects our nation against expensive and dangerous health threats, and responds when these arise.

Research Project: The project focuses on improving the assessment of water-soluble vitamin status and supporting research on the relationships with health.

Learning Objectives: This 1-year fellowship, with a possible extension as funding permits, may provide the following mentor-guided learning opportunities. You may not receive exposure to every objective; specific experiences will be selected based on scientific relevance, your



Opportunity Title: CDC Fellowship in Water-Soluble Vitamin Biomarker Method Validation, Implementation, and Application to Large-Scale Population Studies

Opportunity Reference Code: CDC-2026-0095

preparation, available learning activities, and the stage of the biomonitoring project associated with the appointment.

- **Hands-on expertise in HPLC-MS/MS:** You will gain hands-on experience with HPLC-MS/MS instrumentation for quantitative assessment of nutritional biomarkers of water-soluble vitamins and clinically relevant metabolites.
- **Specialized biomarker measurement skills:** The fellowship will provide comprehensive training in the quantitation of water-soluble biomarkers (e.g., vitamins B1, B2, and B6, methylmalonic acid) in serum, plasma, or whole blood matrices.
- **Analytical method development and validation:** You may gain experience in carrying out mentor-guided experiments for method development, optimization, and validation to assess performance characteristics such as accuracy, precision, analytical measurement range, limits of detection, specificity, recovery, stability and carryover, prepare a validation summary and interpret experimental findings.
- **Instrument operation and troubleshooting competency:** Laboratory activities will enable you to carry out instrument setup, calibration, preventive maintenance, troubleshooting, and other essential practices for maintaining robust HPLC-MS/MS performance.
- **Experience with large-scale population health studies:** Participation in laboratory measurements for NHANES will offers insights into routine steps needed to ensure high-quality laboratory data in national health and nutrition surveillance initiatives.
- **Laboratory data-management skills:** You will learn to operate various instrument software and a laboratory management database for analytical result review, laboratory information management, and maintenance of accurate and traceable records.
- **Quality assurance and regulatory laboratory practices:** Exposure to NHANES and CLIA-related activities will provide an understanding of quality systems, documentation protocols, standard operating procedures, data integrity protection, and the necessity of generating reliable laboratory results.
- **Scientific data interpretation and problem-solving skills:** You will learn to critically assess analytical runs, identify potential issues, analyze quality-control results, and make informed decisions regarding data acceptability.
- **Scientific communication and engagement:** Opportunities for oral and written communication, quantitative reasoning, critical thinking, and team engagement will be available through mentor-led data reviews, technical summaries, presentations, and potential contributions to abstracts, reports, manuscripts, or scientific events.
- **Transferable career skills:** Upon completion of the fellowship, You will possess advanced competencies in HPLC-MS/MS, analytical method validation, laboratory quality systems, data management, biomarker analysis, and epidemiological laboratory research applicable to roles in public health laboratories, clinical laboratories, academia, and the

Opportunity Title: CDC Fellowship in Water-Soluble Vitamin Biomarker Method Validation, Implementation, and Application to Large-Scale Population Studies

Opportunity Reference Code: CDC-2026-0095

biotechnology/pharmaceutical industries.

Mentor(s): The mentor for this opportunity is Zia Fazili-Qari (zxq0@cdc.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: **November 2, 2026.** 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 only.

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 CDCrpp@ornl.gov and include the reference code for this opportunity.

Qualifications The qualified candidate should have received a bachelor's degree in one of the relevant fields(e.g. chemistry, biology, or a related field with some analytical laboratory experience). Degree must have been received within the past five years.

Point of Contact [Rachel](#)

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree received within the last 60 month(s).
- **Discipline(s):**
 - **Chemistry and Materials Sciences** ([4](#) )

Opportunity Title: CDC Fellowship in Water-Soluble Vitamin Biomarker Method
Validation, Implementation, and Application to Large-Scale Population Studies

Opportunity Reference Code: CDC-2026-0095

◦ **Life Health and Medical Sciences** ([4](#) 👁)

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.)