

**Opportunity Title:** FDA Postdoctoral Research Opportunity in Glycoconjugate Vaccines

**Opportunity Reference Code:** FDA-CBER-2024-0029

**Organization** U.S. Food and Drug Administration (FDA)

**Reference Code** FDA-CBER-2024-0029

**How to Apply** *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!

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

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

If you have questions, send an email to [ORISE.FDA.CBER@oraui.org](mailto:ORISE.FDA.CBER@oraui.org). Please include the reference code for this opportunity in your email.

**Application Deadline** 8/31/2024 3:00:00 PM Eastern Time Zone

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

**FDA Office and Location:** A research opportunity is currently available in the Office of Vaccines Research and Review (OVRR) at the Center for Biologics Evaluation and Research (CBER), Food and Drug Administration (FDA) in Silver Spring, Maryland.

The ORISE Research Participation Program at the U.S. Food and Drug Administration is an educational and training program designed to provide college students, recent graduates, and university faculty opportunities to connect with the unique resources of the FDA. With the support of an assigned mentor, participants have authentic hands-on research experience and allows them access to unique research opportunities, top scientists and engineers, and state-of the art facilities and equipment. The Center for Biologics Evaluation and Research (CBER) is one Center within the Food and Drug Administration, an Agency within the United States Government's Department of Health and Human Services. CBER's mission is to protect and enhance the public health through the regulation of biological and related products including blood, vaccines, allergenics, tissues, and cellular and gene therapies.

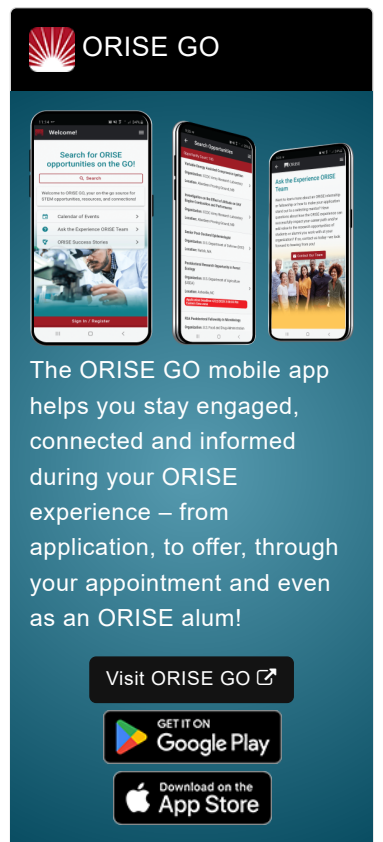
**Research Project:** The fellow will utilize recombinant technologies, metabolic engineering and/ synthetic biology as tools to improve the understanding of glycoconjugate vaccine synthesis and immunology. This is a pioneering project that is focused on Glycoengineered Outer Membrane Vesicles (geOMV) as an alternative platform to generate glycoconjugate vaccines that target encapsulated pathogens.

**Learning Objectives:** Under the guidance of a mentor, the fellow will learn how: To generate a prototype expression system to reconstitute bacterial polysaccharides (e.g. capsule, O-antigen) in Escherichia coli; and To test and evaluate the immune response of the purified geOMV.

**Anticipated Appointment Start Date: August 14, 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


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upon recommendation of FDA and is contingent on the availability of funds.

**Level of Participation:** The appointment is full time.

**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.

This program, administered by ORAU through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education, was established through an interagency agreement between DOE and FDA. The participant will receive a monthly stipend commensurate with educational level and experience. Proof of health insurance is required for participation in this program. Participants do not become employees of FDA, DOE or the program administrator, and there are no employment-related benefits.

Completion of a successful background investigation by the Office of Personnel Management is required for an applicant to be on-boarded at FDA. OPM can complete a background investigation only for individuals, including non-US Citizens, who have resided in the US for a total of three of the past five years.

**FDA Ethics Requirements**

If an ORISE Fellow, to include their spouse and minor children, reports what is identified as a Significantly Regulated Organization (SRO) or prohibited investment fund financial interest in any amount, or a relationship with an SRO, except for spousal employment with an SRO, and the individual will not voluntarily divest the financial interest or terminate the relationship, then the individual is not placed at FDA. For additional requirements, see [FDA Ethics for Nonemployee Scientists](#).

FDA requires ORISE participants to read and sign their FDA Education and Training Agreement within 30 days of his/her start date, setting forth the conditions and expectations for his/her educational appointment at the agency. This agreement covers such topics as the following:

- Non-employee nature of the ORISE appointment;
- Prohibition on ORISE Fellows performing inherently governmental functions;
- Obligation of ORISE Fellows to convey all necessary rights to the FDA regarding intellectual property conceived or first reduced to practice during their fellowship;
- The fact that research materials and laboratory notebooks are the property of the FDA;
- ORISE fellow's obligation to protect and not to further disclose or use non-public information.

**Qualifications** The qualified candidate must have received or be currently pursuing a doctoral degree in microbiology, molecular biology, biochemistry, chemistry or related fields (e.g. cell biology, glycobiology, immunology). The degree must have been received within 5 years of the appointment start date.

**Preferred Skills/Knowledge:**

- Molecular biology (e.g. molecular cloning)
- Biochemistry (e.g. recombinant protein expression and purification, PAGE/Western blot protein analysis)
- Tissue culture
- Mass spectrometry

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- Glycobiology
- Immunology
- Microscopy
- Strong written and oral communication skills

**Eligibility Requirements**

- **Degree:** Doctoral Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** ([12](#))
  - **Life Health and Medical Sciences** ([51](#))
  - **Science & Engineering-related** ([1](#))

**Affirmation** I have lived in the United States for at least 36 out of the past 60 months.  
(36 months do not have to be consecutive.)  
and  
I have read the FDA Ethics Requirements.