

Opportunity Title: FDA Data Science Fellowship - Bioinformatics and AI/Machine Learning

Opportunity Reference Code: FDA-CBER-2026-0090

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

Reference Code FDA-CBER-2026-0090

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

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

If you have questions, send an email to ORISE.FDA.CBER@orau.org. Please include the reference code for this opportunity in your email.

Application Deadline 1/4/2027 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 Biostatistics and Pharmacovigilance (OBPV) at the Center for Biologics Evaluation and Research (CBER), Food and Drug Administration (FDA) in Silver Spring, Maryland.

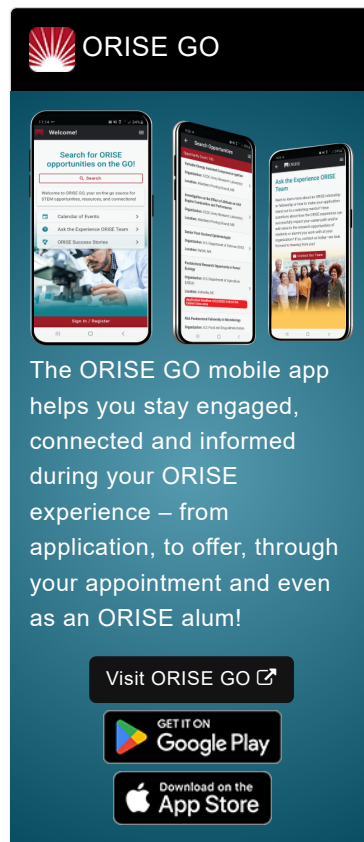
The Center for Biologics Evaluation and Research (CBER) is one Center within the Food and Drug Administration, an Agency within the United States Government's Department of Health and Human Services. CBER's mission is to protect and enhance the public health through the regulation of biological and related products including blood, vaccines, allergenics, tissues, and cellular and gene therapies.

Research Project: You will contribute to the development of novel scientific, structural biology, bioinformatics, and AI/machine learning algorithms, as well as the adaptation and optimization of existing tools. This research aligns with CBER's efforts to enhance the development, operations, and management of FDA's High-performance Integrated Virtual Environment (HIVE) infrastructure and scientific computing environment.

The opportunity involves building and improving applications that compute, analyze, and interpret biological and scientific data, including large-scale omics datasets, within high-performance computing (HPC) environments.

Learning Objectives: Under the guidance of a mentor, you will gain skills in and learn to:

- Develop and implement novel scientific, structural biology, bioinformatics, and AI/ML algorithms
- Optimize and adapt existing analytical tools for performance and



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scalability

- Suggest and implement new software solutions and computational tools
- Maintain, support, and test applications for bugs, redundancies, and security issues
- Standardize and automate application-level processes
- Maintain and improve components of the bioinformatics, structural biology, and AI-focused HPC environment
- Gain experience working with large-scale biological datasets, including genomics, transcriptomics (bulk and single cell), and proteomics data

Mentor: The mentor for this opportunity is Luis Santana-Quintero (luis.santana-quintero@fda.hhs.gov) If you have questions about the nature of the research, please contact the mentor.

Anticipated Appointment Start Date: 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 FDA 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.

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.

Qualifications Applicants should have received a master's or doctoral degree in one of the relevant disciplines (e.g. Bioinformatics, Computational Biology, AI/ML, Mathematics, Computer Science, or related field), or be currently pursuing one of the degrees with completion before the appointment start date. The degree must have been received within 5 years of the

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appointment start date.

Preferred Skills:

- Experience with Python and relevant scientific/AI libraries (e.g., PyTorch, TensorFlow, Pandas, NumPy)
- Experience with R or other object-oriented programming languages
- Experience with Linux environments and shell scripting
- Knowledge of bioinformatics concepts such as sequence alignment, clustering, and omics data analysis
- Knowledge of structural biology concepts, including protein structure, macromolecular interactions, and structure–function relationships
- Familiarity with protein structure prediction and analysis tools (e.g., AlphaFold or related methods) and/or molecular visualization and structural analysis tools
- Strong analytical and problem-solving skills
- Excellent communication skills

Point of Contact [Richard](#)

- Eligibility Requirements**
- **Degree:** Master's Degree or Doctoral Degree received within the last 60 months or currently pursuing.
 - **Discipline(s):**
 - **Communications and Graphics Design** ([1](#) )
 - **Computer, Information, and Data Sciences** ([17](#) )
 - **Engineering** ([27](#) )
 - **Life Health and Medical Sciences** ([48](#) )
 - **Mathematics and Statistics** ([11](#) )
 - **Physics** ([16](#) )

Affirmation I am a U.S. citizen, or 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.)