

**Opportunity Title:** FDA Bioinformatics Data Analysis Fellowship

**Opportunity Reference Code:** FDA-CBER-2021-0013

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

**Reference Code** FDA-CBER-2021-0013

**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@orau.org](mailto:ORISE.FDA.CBER@orau.org). Please include the reference code for this opportunity in your email.

**Application Deadline** 8/11/2021 3:00:00 PM Eastern Time Zone

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

A research opportunity is currently available with the Office of Biostatistics and Epidemiology (OBE), at the Center for Biologics Evaluation and Research (CBER), Food and Drug Administration (FDA) located 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.

The participant will train under a team of multi-disciplinary scientists and perform bioinformatics data analysis in the rapidly changing environment of next-generation sequencing and other omics technologies.

Under the guidance of a mentor, the participant will be involved in the following activities:

- Assist researchers' access, analyze, store and transmit NGS data and information, and collaborate effectively
- Identify, import and evaluate genomic datasets and pipelines
- Contribute to the development of novel bioinformatic pipelines, scientific



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algorithms and adopt existing tools

- Communication of results and interpretation to a diverse audience, including senior FDA scientists, collaborators, and internal stakeholders

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 initial appointment is for one year, but may be renewed upon recommendation of FDA contingent on the availability of funds. The participant will receive a monthly stipend commensurate with educational level and experience. Proof of health insurance is required for participation in this program. The appointment is full-time at FDA in the Silver Spring, Maryland, area. 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 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 should have received a master's or doctoral degree in one of the relevant fields, or be currently pursuing one of the degrees with completion by the end of June 2021. Degree must have been received within five years of the appointment start date.

Preferred skills:

- Scientific background in Bioinformatics, Molecular Biology, Computational Biology or a related field
- Experience in either R or Python (or other scripting languages such as BASH)
- Familiarity with diverse NGS analysis tools (e.g. samtools, bedtools, GATK, BWA, Bowtie, IGV), secondary analysis tools (e.g. muTect, VarScan, VarDict) and statistical or machine learning algorithms (DeSEQ2, clustering, t-SNE)
- Familiarity with publicly available data sources (e.g. TCGA, ENCODE, COSMIC) and annotations methods
- Excellent collaborative, verbal and written communication skills

## Eligibility Requirements

- **Degree:** Master's Degree or Doctoral Degree received within the last 60 months or anticipated to be received by





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- **Discipline(s):**

- **Communications and Graphics Design** (1 )
- **Computer, Information, and Data Sciences** (17 )
- **Life Health and Medical Sciences** (46 )
- **Mathematics and Statistics** (10 )