Opportunity Title: National Center for Biotechnology Information (NCBI) Research Opportunity
Opportunity Reference Code: NIH-NCBI-01

Organization National Institutes of Health (NIH)

Reference Code NIH-NCBI-01

How to 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
- Two educational or professional references

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

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

Description The NCBI Research Participation Program is a National Center for Biotechnology Information (NCBI) initiative to provide training in bioinformatics and computational biology.

Candidates are selected from applications with strong backgrounds in biology, mathematics, statistics, computer science, and related fields and with interests in applying computational tools to research problems in molecular and structural biology, genetics, genomics, proteomics, phylogeny, and related fields.

The NCBI was created within the National Library of Medicine (NLM) at the National Institutes of Health (NIH) in late 1988. The NCBI's mission is to develop new information technologies to aid in the understanding of fundamental molecular and genetic processes that control health and disease. Its mandate includes four major tasks:

- Create automated systems for storing and analyzing knowledge about molecular biology, biochemistry, and genetics;
- Perform research into advanced methods of computer-based information processing for analyzing the structure and function of biologically important molecules;
- Facilitate the use of databases and software by biotechnology researchers and medical personnel;
- Coordinate efforts to gather biotechnology information worldwide.

Selected applicants will learn applied research methods in data science, including the development of algorithms, software tools, databases, and pipelines for discovery relating to biomedicine, molecular biology, genetics, biochemistry, and text mining. NCBI can provide opportunities to participate in collaborative computational research projects with NIH intramural research laboratories as well as extramural academic groups.

The NCBI is actively reviewing applications and is looking to fill positions as

soon as qualified applicants are identified.

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 NLM. 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 NCBI in the Bethesda, MD. Participants do not become employees of NIH, NLM, NCBI, DOE or the program administrator, and there are no employment-related benefits.

ORISE is continuing normal program operations during the COVID-19 pandemic. This opportunity will be offered as long as the NIH Laboratory is able to complete the onboarding process and ensure a meaningful experience to participants. We encourage you to apply and submit your application as soon as possible. Updates to this opportunity will be provided on this page as needed.

Eligibility Requirements

- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 👁)
  - **Communications and Graphics Design** (1 👁)
  - **Computer, Information, and Data Sciences** (16 👁)
  - **Engineering** (27 👁)
  - **Environmental and Marine Sciences** (1 👁)
  - **Life Health and Medical Sciences** (45 👁)
  - **Mathematics and Statistics** (10 👁)
  - **Other Non-Science & Engineering** (4 👁)
  - **Physics** (1 👁)
  - **Social and Behavioral Sciences** (28 👁)