

Opportunity Title: The National Library of Medicine (NLM) Intramural Research Program (IRP)

Opportunity Reference Code: NIH-NLM-2021-02

Organization National Institutes of Health (NIH)

Reference Code NIH-NLM-2021-02

How to Apply Click on *Apply* below to start your application.

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

Description The National Library of Medicine (NLM) is the world's largest medical library and a leader in medical informatics and computational biology research. The NLM Intramural Research Program (IRP) directs its efforts toward two broad areas of computational biomedical sciences: 1) computational biology, using biological data to advance algorithms and models to better comprehend biological systems and to connect relationships between any level of biological organization; and 2) computational health sciences, focusing on clinical information processing, including new computational methods for clinical data and health data standards. NLM's research is driven by Principal Investigators in the Computational Biology Branch of the NLM's National Center for Biotechnology Information (NCBI-CBB) and in the Lister Hill National Center for Biomedical Communications (LHNCBC).

Projects within NLM's IRP are organized into six research areas:

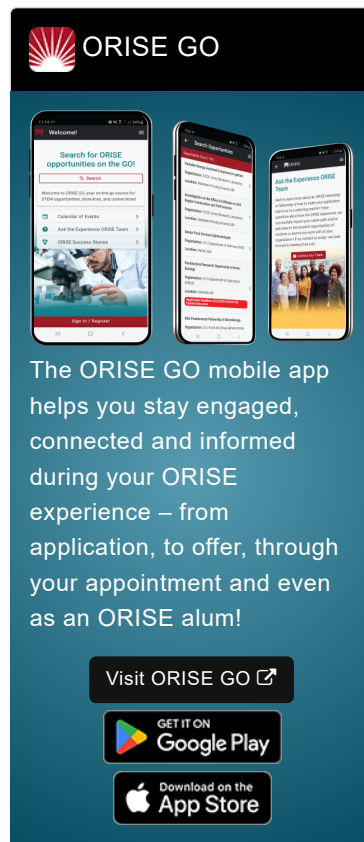
- Evolutionary Genomics and Biomolecular Structure
- Health Information Standards and Discovery
- Image Processing
- Natural Language Processing
- Networks, Gene Regulation, and Chromatin
- Statistical Methods

Participants can be involved with on-going research projects in any of these research areas under the guidance of research staff preceptors. Detailed descriptions of each research area are available at

<https://www.nlm.nih.gov/research/index.html>.


Learning objectives of this project include:


- Gaining experience in independent study and research under the guidance of LHNCBC and NCBI-CBB staff
- Learning about the biomedical resources that NIH and NLM currently provide and about the motivations and challenges in current LHNCBC and NCBI-CBB research through seminars, workshops, and lectures
- Describing study and research results through written and oral communication and improving written work and presentations through critiques with other project participants
- Becoming aware of research funding and professional development opportunities for trainees specializing in biomedical informatics and


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computational biology through discussions with leading practitioners and researchers

- Participating in training and career development opportunities offered through NLM's Training Office and the NIH Office of Intramural Training and Education
- Collaborating on research projects with other NIH intramural research laboratories as well as extramural academic groups

What is the anticipated start date?

Exact start dates will be determined at the time of selection and in coordination with the selected candidates.

What are the benefits?

You will receive a competitive stipend for living and other expenses as determined by the NIH. Stipends are typically based on academic level, discipline, and experience. You may also be eligible to receive a health insurance allowance and reimbursement for travel expenses.

Where will I be located?

Bethesda, MD

In response to the evolving situation related to the COVID-19 pandemic, the hosting facility may modify their operation schedule and access to facilities to ensure the health and safety of their entire workforce while maintaining operational effectiveness. Hence, the appointment location is subject to change and contingent on hosting site guidelines and may result in a virtual placement.

Nature of the Appointment

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 not enter into an employee/employer relationship with ORISE, ORAU, NIH, NLM, LHNCBC, NCBI-CBB or any other office or agency. Instead, the participant will be affiliated with ORISE for the administration of the appointment through the ORISE appointment letter and Terms of Appointment.

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!

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.

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Qualifications Preferred skills:

- Strong background in biology, mathematics, statistics, computer science, or a related field
- Some experience with computing and information systems, including programming
- Previous computer science and/or computer engineering education may be helpful

Applicants must meet the following requirements:

- Have completed within the last 60 months a Bachelor's, Master's, or Doctorate degree in a related field.

A complete application consists of:

- Complete Zintellect profile
- Essay Questions
- Current Resume/CV, including academic history, employment history, relevant experiences, and publication list
- Academic Records - The applicant must submit records for the most recent degree or degree in progress. Unofficial transcripts or copies of academic records printed by the applicant or by academic advisors from internal institutional systems may be submitted. Academic Records must include name of the academic institution, name of the student, courses completed/in progress, grades and degree expected/awarded.
- Two (2) Recommendations - Applicants are required to provide contact information for at least one recommendation in order to submit the application. You are encouraged to request a recommendation from a professional who can speak to your abilities and potential for success as well as your scientific capabilities and personal characteristics. **Recommendation requests must be sent through the Zintellect application system.** Recommenders will be asked to complete a recommendation in Zintellect. **Recommendations submitted via email will not be accepted.** Recommendation must be submitted before an offer is made.

All documents must be submitted via Zintellect. Documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blanked out, blackened out, made illegible, etc.) prior to uploading into the application system. Any questions about this posting can be directed to NIHprograms@orau.org.

Eligibility • **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree

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- Requirements** received within the last 60 months or currently pursuing.
- **Academic Level(s):** Post-Bachelor's, Postdoctoral, or Post-Master's.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#))
 - **Computer, Information, and Data Sciences** ([17](#))
 - **Earth and Geosciences** ([1](#))
 - **Engineering** ([27](#))
 - **Environmental and Marine Sciences** ([14](#))
 - **Life Health and Medical Sciences** ([46](#))
 - **Mathematics and Statistics** ([10](#))
 - **Physics** ([16](#))
 - **Science & Engineering-related** ([1](#))

Affirmation I have received my degree within 60 months of the anticipated start date, or I am currently pursuing a degree.