

Opportunity Title: New Approach Methodologies for Toxicity Testing

Opportunity Reference Code: NIH-NIEHS-2024-0003

Organization National Institutes of Health (NIH)

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

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Description The National Institute of Environmental Health Sciences (NIEHS) is currently seeking candidates with their Bachelor's, Master's, and Doctoral degree's to participate and learn about new approach methodologies for toxicity testing.

As one of the largest research agencies dedicated to using environmental sciences to understand human disease and to improve human health, the NIEHS fosters scientific learning and discovery and provides learning opportunities for students of all levels.

This project, as part of the Division of the National Toxicology Program predictive toxicology effort, seeks to explore advanced technologies and approaches for the next generation of human-relevant safety and toxicity testing. Focus areas include but are not limited to:

- Complex in vitro systems (e.g., 3D cell models, microphysiological systems, tissue-chips), in silico.
- Computational modeling, bioinformatics, data analytics, natural language processing, high-content imaging, "omics" (e.g., transcriptomics, metabolomics, proteomics, etc.) and high/medium-throughput screening.

What will I be doing?

The participant will learn how to apply their scientific and technical knowledge to advance the interrelated fields of toxicology, chemical safety, and human risk assessment. During the fellowship, the participant will collaborate with cross-disciplinary teams to understand existing regulatory requirements and help bridge the gap between advances in modern science and real-world application to human risk assessment. The participant will be mentored by recognized leaders in the respective field and will take an active role in designing experiments, analyzing and interpreting data, and communicating research findings through publications and presentations at scientific meetings.

Benefits

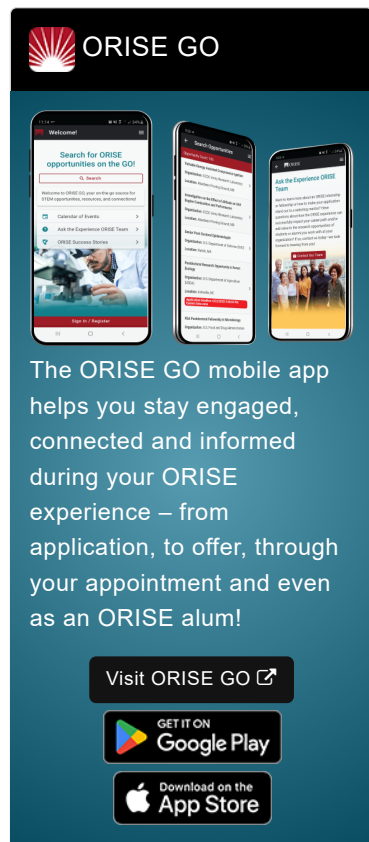
- Competitive Stipend based on education and experience.
- Health insurance supplement.
- Travel/Training allowance

What is the anticipated start date?

The exact start date will be determined between the mentor and applicant at time of selection. The initial appointment is for one year but may be renewed upon recommendation of NIEHS contingent on the availability of funds.


Nature of the Appointment


Participants will not enter into an employee/employer relationship with ORISE, ORAU, NIH, or any other office or agency. Instead, the participant will be affiliated with ORISE for the administration of




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the appointment through the ORISE appointment letter and Terms of Appointment.

Qualifications Have received a Bachelor's, Master's, or Doctoral degree within five years (60 months) of appointment start date, in a relevant field. Current students may apply but must complete their degree before the start of appointment. If the degree has been received more than five years, the applicant must have an academic background and experience in a relevant field and must be seeking to gain new knowledge/experience in order to expand career opportunities or to advance professionally.

A complete application consists of:

- A complete Zintellect profile and responses to opportunity specific application questions.
- Transcripts/Academic Records – [Click here for detailed information about acceptable transcripts](#); Recent transcripts or copies of the student academic records printed by the applicant or academic advisors from internal institutional systems may be submitted to complete the application, if a copy of the official transcript is not available at the time of application. Transcripts/Academic Records must include the name of the academic institution, name of the student, completed/in progress coursework and grades. If you are selected, you will be required to provide a copy of your most recent official transcript showing proof of degree before the appointment can start.
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list.
- One academic or professional recommendation. The recommendation should address a candidate's academic record and potential success as a fellow as indicated by communication, motivation, and collaboration skills, and must be submitted through Zintellect. Applications without a recommendation will not be reviewed.

NOTE: All documents must be submitted through Zintellect, and must be in English or include an official English translation. Documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blacked out, blackened out, made illegible, etc.) prior to uploading into the application system. Incomplete applications will not be considered. Supporting materials must be uploaded as PDF files to ensure the document can be searched by Zintellect's search engine. Documents sent by email, postal mail, or fax will not be considered.

If you have questions, send an email to njhprograms@oraui.org. Please include the reference code for this opportunity (NIH-NIEHS-2024-0003) in your email subject line.

- Eligibility Requirements**
- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#))
 - **Communications and Graphics Design** ([2](#))
 - **Computer, Information, and Data Sciences** ([17](#))
 - **Earth and Geosciences** ([21](#))
 - **Engineering** ([27](#))
 - **Environmental and Marine Sciences** ([14](#))
 - **Life Health and Medical Sciences** ([48](#))
 - **Mathematics and Statistics** ([11](#))
 - **Physics** ([16](#))
 - **Science & Engineering-related** ([2](#))
 - **Social and Behavioral Sciences** ([29](#))

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