

Opportunity Title: NIH NICEATM Postdoctoral Opportunity for Interactive Visualization and Democratization of Computational Toxicology Tools (MoVIZ+)

Opportunity Reference Code: NIH-DPCPSI-ORIVA-MOVIZ-2026

Organization National Institutes of Health (NIH)

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How to Apply Click on *Apply* below to start your application. An initial review of applications will occur on **July 1, 2026**. Thereafter, applications will be reviewed on a rolling-basis throughout the 2026 calendar year, and selections made as projects for participation become available.

Description This postdoctoral research opportunity is currently available within the National Institutes of Health (NIH), National Toxicology Program Interagency Center for the Evaluation of Alternative Toxicological Methods (NICEATM). This opportunity will focus on expanding the MoVIZ (Modeling and Visualization) pipeline to create next-generation interactive visualization and decision-support tools for computational toxicology. The participant will design scalable web-based approaches for visualizing chemical similarity, biological activity, model predictions, prediction uncertainty, and applicability domains in ways that are intuitive for researchers, regulators, and other partners. The project will emphasize transparent, human-centered design, and modern explainable artificial intelligence (AI) concepts to improve interpretation of complex data. The opportunity also offers opportunity to prototype tools for the NIH Integrated Chemical Environment (NICE), AI-guided interfaces, and novel visualization strategies that democratize access to computational tools and strengthen confidence in data and model-informed decisions in regulatory toxicology.

What will I be doing?

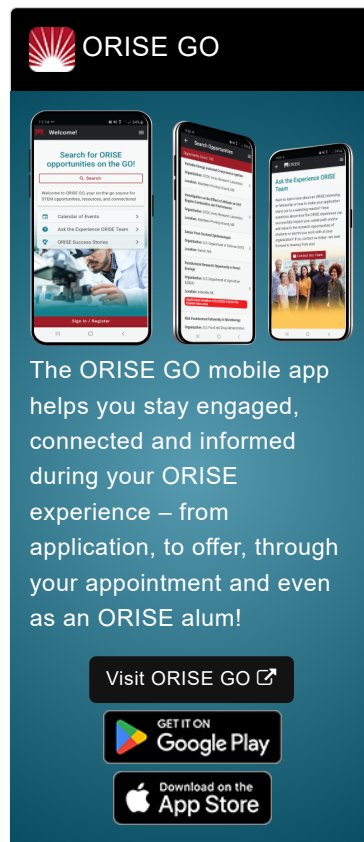
The participant will learn how to design, prototype, and evaluate interactive scientific visualization tools for large toxicological and chemical datasets using modern web technologies and reproducible development practices. Through mentored research, the participant will gain experience in human-centered design, explainable AI, prediction uncertainty, applicability domains, and model predictions in decision-support settings. The participant will also learn how to integrate visualization methods with predictive models, data resources, and scalable workflows within NICE and the MoVIZ ecosystems. Additional learning will include interdisciplinary collaboration, scientific writing and communication, user experience-focused development, and dissemination of open-science tools that promote democratize adoption of computational toxicology.

Why should I apply?

As a participant in a STEM research participation program, you will learn about different NIH support mechanisms and different collaborative research programs involving NIH, how to use various NIH databases and modalities for data analysis, how to identify metrics and key indicators needed to evaluate any program, how to compare success between different types of collaborative research programs, and how to make recommendations for future programs based on the available data.

Where will I be located?

Fellows are expected to be fully engaged in-person at the Keystone Office Park in Morrisville, NC.

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What financial provisions will I receive?

The selected candidates will receive a monthly stipend to help offset living and other expenses during this appointment. Stipend rates are determined by NIH officials and are based on the candidate's academic and professional background. In addition, NIH may provide a health insurance supplement to cover the monthly premium costs if you elect the ORAU/ORISE health insurance plan, as necessary.

What is the length of the appointment?

The appointment will initially be for one year but may be renewed yearly for up to 4 additional years upon recommendation of NIH and is contingent on the availability of funds.

When are selections made?

An initial review of applications will occur on **July 1, 2026**. Thereafter, applications will be reviewed on a rolling-basis throughout the 2026 calendar year, and selections made as projects for participation become available.

What is the 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 the National Institutes of Health (NIH). Participants do not become employees of NIH, DOE, ORISE, nor ORAU, and there are no employment-related benefits.

Qualifications The qualified candidate must be 18 years or older at the time of application, and should have received a doctoral degree in one of the relevant fields. The degree must have been received within the last five years of the appointment start date. Current graduate students who are nearing degree completion may apply but must have completed their degrees by the start of the fellowship.

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](#) for information about the valid immigration statuses that are acceptable for program participation.

A completed application consists of:

- A complete Zintellect profile.
- A program specific application submitted in Zintellect.
- Transcript(s) – Submit a copy of your most recent official transcript. For this opportunity, an unofficial transcript or copy of the student academic record printed by the applicant or by academic advisors from internal institution systems may be submitted to complete the application requirement, if you do not have a copy of your official transcript at the time of application. The transcript or academic record must include the name of the academic institution, name of the student, courses completed/in progress, grades and degree expected/awarded. A copy of your official transcript and/or letter showing proof of your degree may be required prior to starting the appointment. All transcripts must be in English or include an official

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English translation.

- A current resume/CV, including academic history, employment history, relevant experiences, and publication list.
- One Recommendation - Applicants are required to provide contact information for at least one recommendation in order to submit the application. Recommendations should be from professionals 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. Recommendations must be submitted before your application can be reviewed.





All documents submitted must be in English or include an official English translation. All social security numbers, student identification numbers, and/or dates of birth should be removed (blacked out or blackened out, made illegible, etc.) prior to uploading into the application system.

If you have questions, contact us at NIHprograms@orau.org. Please include the reference code NIH-DPCPSI-ORIVA-MOVIZ-2026 for this opportunity in your email.

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Stipend \$88,000.00 Yearly

Point of Contact [Daphne](#)

- Eligibility Requirements**
- **Degree:** Doctoral Degree received within the last 60 months or currently pursuing.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([3](#) )
 - **Communications and Graphics Design** ([1](#) )
 - **Computer, Information, and Data Sciences** ([4](#) )
 - **Life Health and Medical Sciences** ([1](#) )
 - **Age:** Must be 18 years of age

Affirmation I affirm that I have received my doctoral degree within the last five years or am currently enrolled in a PhD program. If currently enrolled, I understand that my degree must be received before the appointment start date.