

NSF MPS Chemistry Quarterly Office Hour: NSF Funding Opportunities for Chemists

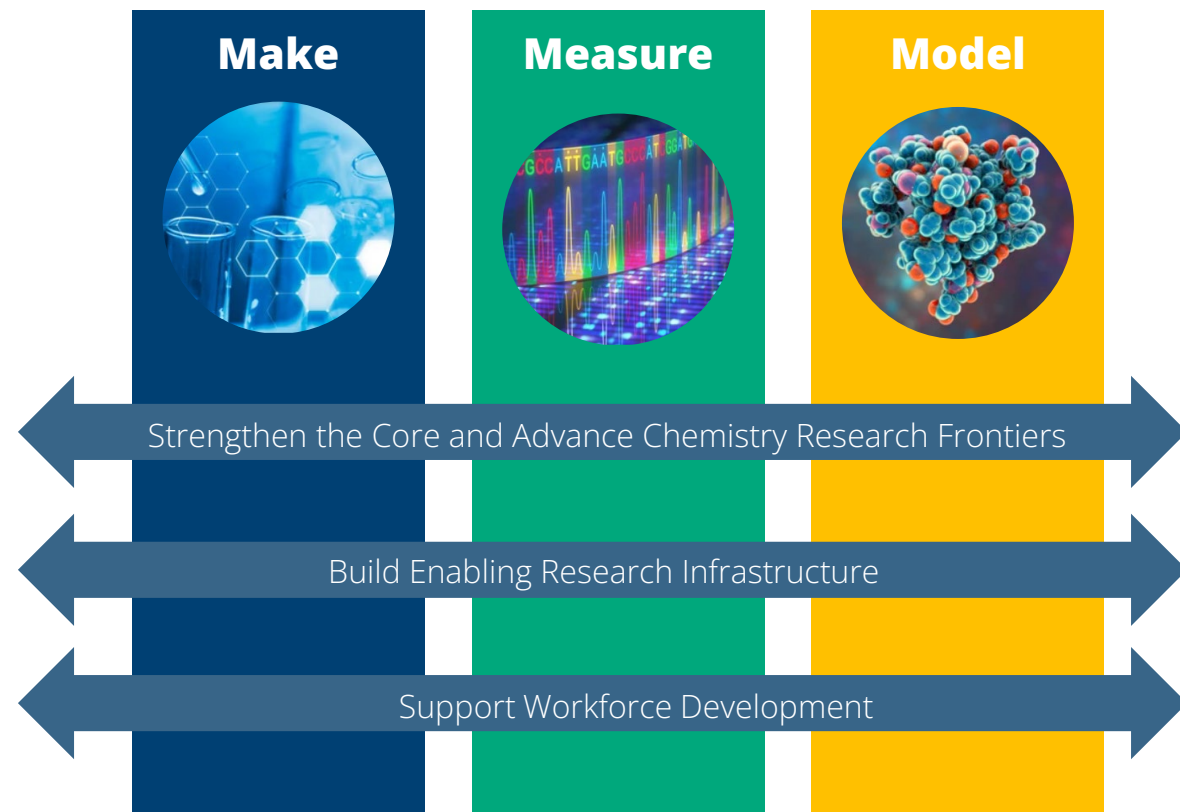
August 14, 2026

We will get started shortly.

The mission of the NSF MPS Chemistry

... is to support innovative chemical research in fundamental discovery, invention and innovation conducted by a large and vibrant research community spanning all U.S. regions.

MPS Chemistry supports experimental and theoretical research as expressed in fundamental chemical synthesis and reactivities, measurement, and computation, as well as in applications at the intersections of biology, computer science, engineering, geosciences, materials, and physics.



Resources on NSF X-Labs and NSF Tech Accelerators

- Recorded webinars and slides, as well as details about the funding opportunities can be found on their respective webpages:
 - [NSF X-Labs webpage](#)
 - [NSF Tech Accelerators webpage](#)



Advancing the Administration's AI priorities through the Genesis Mission

- **Unleashing a new age of AI-enabled scientific discovery through the Genesis Mission (NSF 26-023)**
 - Encouraging researchers to align proposals to existing NSF programs with the goals of the Genesis Mission, with a focus on AI for science to accelerate scientific discovery, including AI-enabled tools, autonomous research capabilities and AI-driven research approaches.
 - NSF is particularly interested in:
 - Leveraging and Building AI for Science;
 - Building Foundations for S&T Challenges;
 - Growing Workforce and Capacity in AI for Science.
 - Title proposals specifically responsive to this DCL with the “Genesis Mission:” prefix.
 - Questions about this DCL should be directed to GenesisMissionNSF@nsf.gov.



<https://www.nsf.gov/funding/information/dcl-unleashing-new-age-ai-enabled-scientific-discovery-through>

Additional Opportunities for your Awareness

- **Unlocking Dataset Value for AI-Enabled Scientific Discovery (AI Datasets, NSF 26-512)**

- Supports unlocking the value of existing scientific datasets by making them more accessible, easier to integrate and ready for automated AI-driven analysis.
- All proposals should describe how they will enable data preparation and/or curation to increase the value of existing scientific datasets for use by AI data pipelines, automated analysis, and other AI-driven scientific inquiries. All proposals should also address dataset governance. Governance includes dataset access, retirement policies and the community contribution process. Proposals should address dataset security and integrity.
- **Proposals due: November 4, 2026, at 5 pm submitting organization's local time**

- **Pathways to Enable Secure Open-Source Ecosystems (NSF PESOSE, NSF 26-506)**

- Supports the translation of open-source science and engineering-focused research products into safe and sustainable ecosystems that address national and societal challenges.
- **Webinar on Monday August 17; upcoming proposal submission deadline: September 1, 2026**

- **Envisioning the Future of AI and Chemistry Workshop**

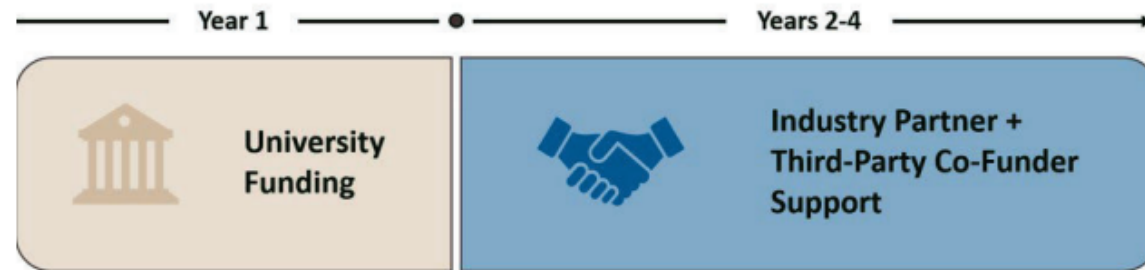
- This NSF workshop will bring chemistry, AI, data infrastructure, automation, software, publishing, and industry stakeholders together to define a shared vision and actionable pathways for coordinated data handling, methods development, and infrastructure.
- Organizers: Pratyush Tiwary (University of Maryland), Connor Coley (MIT), and Ryan Jorn (Wichita State University)
- Sharing your thoughts by email.



The UIDP Industry-Integrated (I-PhD) Scholars Program

The UIDP Industry-Integrated PhD (I-PhD) Scholars Program is a \$47-million investment over five years that creates a new four-year Ph.D. model for more than 250 doctoral students nationwide with hands-on experience in industry research and development as part of their graduate education. **The program brings universities and industry together to co-invest in PhD students through collaborative funding, industry research experiences, and workforce development, preparing the next generation of STEM research leaders.**

The program's shared investment model provides coordinated support over four years, with funding responsibilities shifting as students progress through the program:



Participating students also receive joint mentorship from academic and industry researchers and **spend at least one year, in aggregate**, conducting dissertation-integrated research at an industry site.



Strengthening STEM Doctoral Education



CO-FUNDER

RECEIVES

Scalable national model
Workforce development
Measurable national impact

INVESTS

Matched support
National workforce investment
National platform



INDUSTRY

RECEIVES

Early access to STEM PhD talent
Increased ROI
Stronger university partnerships

INVESTS

Minimum \$100K investment
Industry mentor
Research setting



STUDENT

RECEIVES

Dissertation-aligned research
Hands-on industry experience
Industry skills certificate

INVESTS

Minimum one-year industry placement
Cohort-based experience
Innovation and idea development



UNIVERSITY

RECEIVES

Expanded doctoral funding
Stronger industry partnerships
Better student outcomes

INVESTS

Year 1 student support
Academic mentor
Dissertation oversight

uidp.org/i-phd-scholars



How to Participate

- **Applications are now live.** University-industry partnerships are invited to submit a nonbinding application for consideration in the Fall 2026 or Fall 2027 cohorts.
- Applications will be reviewed on a rolling basis for the Fall 2026 and Fall 2027 cohorts. UIDP seeks balanced representation across scientific disciplines, U.S. national and regional priority areas, geographic regions, and institutional types.
- **For formal entry into the program**, participating partnerships will be required to enter into a program participation agreement with UIDP certifying that required program frameworks, including agreements governing intellectual property, publication, and confidentiality, have been mutually defined and documented prior to student participation.
- Participating organizations will also certify their commitment to comply with applicable program participation, reporting, evaluation, and onboarding requirements administered by UIDP.

For more information, including application instructions, FAQs, and an informational webinar, please visit the [UIDP I-PhD webpage](#).



New! MPS Chemistry Research Programs Notice of Funding Opportunity (NSF 26-519)

- MPS Chemistry Research Programs Notice of Funding Opportunities (NSF 26-519) now replaces any other MPS Chemistry DRP solicitations.
- All nine MPS Chem Disciplinary Research Programs are now no-deadline; proposals can be submitted anytime, **starting September 1, 2026**.
- All proposals should be submitted to **NSF 26-519**, except for RUI proposals, which should be submitted to **NSF 14-579**.



Directorate for Mathematical and Physical Sciences (MPS)

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The U.S. National Science Foundation Directorate for Mathematical and Physical Sciences (NSF MPS) is one of the preeminent federal forces behind over 75 years of major scientific breakthroughs and innovations — from the discovery of new properties of energy and matter to the creation of entirely new fields of mathematics.

NSF MPS supports fundamental research in astronomical sciences, chemistry, materials, mathematical sciences and physics. MPS also manages ambitious, multidisciplinary research centers and institutes focused on major scientific challenges. The directorate supports fundamental science and research infrastructure that advances scientific knowledge and enhances the nation's economic growth, security and quality of life.

MPS investments are also building the scientific workforce of the future by providing specialized training, education and mentorship opportunities in labs across the U.S.

[Learn more about MPS](#)

MPS updates

[IPA program director job opportunities at NSF MPS](#)

June 16, 2026



MPS Home Page

Fiscal Year 2028 Administration Research and Development Budget Priorities

“

Invest in Foundational Research to Drive Scientific Breakthroughs for Emerging Technologies

... Agencies should prioritize funding for:

...

Chemistry and Materials Science. *Agencies should prioritize foundational research in chemistry and materials science, These fields underpin quantum science and semiconductors and extend across advanced manufacturing, energy production and storage, the nuclear fuel cycle, photonics, and space and hypersonic systems.*

....”



Thank you!

- Thank you for attending the MPS Chemistry Quarterly Office Hour.
- Our next office hour will be held on **Friday, November 14 from 3 – 4 p.m. Eastern.**
 - The office hour will focus on the MPS Chemistry Research Programs Notice of Funding Opportunity ([NSF 26-519](#)).

