

UPR external funding success is of utmost importance to strengthen the connection between its investigators/faculty and funding entities who have the potential to sponsor their research and academic endeavors. This publication has been developed in order to summarize funding opportunities and promote the participation of faculty and collaborative research groups in their intent to apply for external funds. Such efforts are aligned with the UPR Strategic Plan 2017-2022: A New Era of Innovation and Transformation for Student Success; Certification 50 (2016-2017) of the Governing Board, December 19, 2016. Strategic Area: Research and Creative Work. Goal 2: Increase Applications for and awards of external funds for research and creative work.

SELECTED FUNDING OPPORTUNITIES

This is a selection of identified funding opportunities for the period ending 9/23/2026 and is in no way all-inclusive of funding opportunities available. Further information has been shared with External Resource Coordinators and Research Coordinators at each UPR campus.

INDEX

	<u>Page</u>
1. Ecosystem for Low-dimensional Electronics: Growth, Assembly, Nanoelectronics, and Translation (ELEGANT), NSF.....	2
2. Communities Leading on AI, Humanity AI.....	4
3. Shared Instrumentation Grant (SIG) Program (S10 Clinical Trial Not Allowed), NIH.....	5
4. Research Enhancement Award Program (REAP) for Health Professional Schools and Graduate Schools (R15 Clinical Trial Required), NIH.....	6
5. MPS Materials Research Programs (MPS Materials), NSF.....	7
6. SPIE Outreach Grants Program, Society of Photographic Instrumentation Engineers.....	9
7. Seed Instrumentation Support (SIS) Program (S10 Clinical Trial Not Allowed), NIH.....	10
8. Institutional Mentored Career Development Award (Parent K12) (Clinical Trials Not Allowed), NIH.....	11
9. Research Education Program - Research Experiences (Parent R25 - Clinical Trial Not Allowed), NIH.....	12
10. NIH Research Education Program - Courses, Curriculum & Methods (Parent R25 - Clinical Trial Not Allowed), NIH.....	13
11. Limited Competition: Instrumentation Grant Program for Resource-Limited Institutions (S10 - Clinical Trial Not Allowed), NIH.....	14
12. Science Education Partnership Award (SEPA) (R25 - Clinical Trial Not Allowed), NIH.....	15
13. Limited Competition: Small Grant Program for NHLBI K01/K08/K23/K25 Recipients (R03 Clinical Trial Optional), NIH.....	16
14. Media Projects, NEH.....	17
15. MPS Mathematical Sciences Research Programs (MPS MathSci), NSF.....	19
Proposals Accepted Anytime.....	21
Announcing Previous Important Funding Opportunities.....	24

1. Ecosystem for Low-dimensional Electronics: Growth, Assembly, Nanoelectronics, and Translation (ELEGANT), NSF

Application Deadlines: December 18, 2026

Award Budget:

- **Theme 1: Manufacturable Materials Platform:** up to \$43M for a period of 6 years
- **Theme 2: Process Technology and Process Design Kit (PDK):** up to \$35M for a period of 6 years
- **Theme 3: Device, Circuit and Full-Chip Demonstration:** up to \$42M for a period of 6 years
- **Theme 4: Manufacturing Readiness and Transition** up to \$12M for a period of 6 years
- **Theme 5: AI-Enabled Acceleration:** up to \$6M for a period of 6 years
- **Ecosystem Coordinator:** up to \$12M for a period of 6 years

This solicitation seeks to select (i) an Ecosystem Coordinator and (ii) Expert Performer Teams to constitute and perform activities of the Ecosystem for Low-dimensional Electronics: Growth, Assembly, Nanoelectronics, and Translation (ELEGANT). ELEGANT's mission is to translate Low-D semiconductor technologies from laboratory demonstrations into industrially viable platforms that U.S. microelectronics manufacturers can qualify, fabricate, and deploy. Success in this translation is essential to restoring U.S. leadership in advanced microelectronics and will enable next-generation capabilities in artificial intelligence, high-performance computing, advanced communications and other key technology areas critical to national security and the nation's overall economic competitiveness.

The Need for Coordination and Urgency

Current U.S. investment in Low-D technologies is fragmented. Coordination is required to bridge the gap between laboratory demonstrations and industrially relevant advanced-node technology platforms. Although many of the technology benefits of low-dimensional semiconductors have been individually demonstrated in research laboratories, translating advancements to production environments will require coordinated advances across materials engineering and quality; device design; EDA; scalable process integration — including equipment, metrology, and reliability; and end-to-end demonstrations involving the design and fabrication of complete chips that are convincing to industry adopters. An ecosystem-based approach culminating in the demonstration of an integrated technology stack is essential to accelerating this translation.

Isolated advances in materials, devices, manufacturing, or circuit design must be coordinated to achieve transformative results; progress in semiconductors is interdependent.

Program Objectives

ELEGANT is a translational program, not a research program. Every activity funded under ELEGANT must be in service of an industry-adoptable Translational Endpoint — the industry adoptable deliverable against which performers are selected and held accountable. Strong and sustained industry participation is a central program requirement.

Expert Performer Teams are organized around five Translation Themes, each defined by a specific Translational Endpoint rather than a technical discipline, as follows:

- **Theme 1: Manufacturable Materials Platform** – Demonstration of Low-D semiconductor materials synthesized on 300 mm wafers, meeting industry-defined specifications sufficient for foundry process-qualification entry with industry-suitable equipment for synthesis and metrology (validated by two or more industry partners) on a pathway to production readiness.
- **Theme 2: Process Technology and Process Design Kit (PDK)** – A documented, reproducible process steps and flow (and associated equipment) and PDK(s) released to at least two independent industry partners and validated as sufficient for circuit-level design and evaluation of Low-D semiconductor devices.
- **Theme 3: Device, Circuit and Full-Chip Demonstration** – Functional full-chip level prototypes demonstrating at least a 10X PPAC improvement relative to a relevant CMOS technology node, validated by

at least two independent industry partners. This is ELEGANT's primary point for industrial adoption readiness.

- **Theme 4: Manufacturing Readiness and Transition** – A manufacturing readiness capability — comprising a 300 mm tool qualification roadmap, cost and yield model, foundation for a domestic supply chain, and minimal packaging solution — providing the information industry needs to make a capital investment decision in Low-D semiconductor technology validated by at least two industry partners.
- **Theme 5: AI-Enabled Acceleration** – A shared AI/ML platform demonstrating reduction in time-to-result across at least three of Themes 1–4, with validated closed-loop learning deployed in at least one materials synthesis and process development workflow by end of Phase 2.

The **Ecosystem Coordinator** will be accountable for the effective support and coordination of the ELEGANT ecosystem, including supporting NSF oversight, facilitating collaboration among Expert Performer Teams, and ensuring progress toward meeting program objectives and Translational Endpoints throughout the period of performance.

The objective of ELEGANT is to de-risk the technology to the point where industry can make a timely, credible, evidence-based commitment to its adoption. The program's success will be defined by the achievement of demonstrated industrial adoption readiness criteria: quantitative, independently verified states of technical, commercial, supply chain, and Intellectual Property (IP) readiness sufficient to justify an industry decision to initiate a formal qualification program for Low-D semiconductor technologies at a specific advanced microelectronics process node. The criteria will be established through pre-award negotiation, documented in the initial Annual Project Plan (APP) for each awardee, and refined as appropriate through subsequent APPs.

Period of Performance and Program Phases

ELEGANT will consist of three successive Government-funded phases, each anticipated to span 24 months. NSF encourages proposals that present a credible plan for accelerating progress and may adjust phase durations based on technical readiness and milestone achievement.

Because genuine technical uncertainty exists regarding the most effective technical approaches, the early phase(s) of ELEGANT may support competing Theme-specific approaches. Down selections will be based on quantitative, industry-informed Go/No-Go criteria established during award negotiations and documented in each awardee's initial APP and refined through the APP process as technical understanding and program results mature.

Phase transitions are contingent on Go/No-Go determinations, which will be made solely at NSF's discretion. Funding beyond any decision gate is not guaranteed and NSF reserves the right to continue, modify, reduce, or terminate any award. NSF may re-compete any award or phase where re-competition would better serve program objectives. In addition to technical performance, NSF will consider commercialization strategy, industry engagement, ecosystem contributions, and other programmatic factors consistent with the goals of ELEGANT.

Following the Government-funded period of performance, ELEGANT anticipates a Phase 4 transition in which industry assumes primary funding responsibility for production ramp and derivative node development; NSF's role in Phase 4 is anticipated to be advisory only. Industry assumption of Phase 4 funding responsibility is a leading indicator of translation success. Funded work shall overwhelmingly be performed in the United States, with use of domestic fabrication, characterization, and testing infrastructure to the maximum extent practicable.

An organization may submit a proposal as Ecosystem Coordinator or as an Expert Performer Team, but not both.

Link to Additional Information: <https://www.nsf.gov/tip/elegant>

2. Communities Leading on AI, Humanity AI

Application Deadlines: October 21, 2026

Award Budget:

- **Tier One:** between \$75,000 and \$150,000 for a period of up to 3 years
- **Tier Two:** between \$150,000 and \$500,000 for a period of up to 3 years
- **Tier Three:** between \$500,000 and \$1,000,000 for a period of up to 3 years

This call is focused on community-led efforts in three issue areas central to Humanity AI's work. By community-led, we mean those most affected by the technological changes are defining the goals, shaping the approach, and driving the work. Issue areas include:

- **Education** - Shaping AI around the best interests of students, educators, and communities to develop and expand knowledge, strengthen how people learn, and safeguard against risks to humans. We are particularly interested in work led by students, educators, and the organizations who represent them.
- **Labor and economy** - Ensuring AI is used to enhance, rather than replace, workers and to help create an economy that enables all of us to have what we need to thrive. We are particularly interested in work led by workers and worker-focused organizations.
- **Humanities, arts, and culture** - Enhancing human creativity and understanding of the human experience while protecting the work of artists and creators. We are particularly interested in work led by artists, writers, scholars, cultural heritage workers, and others working in culture and humanities, including organizations that represent them.

Eligible Approaches

Within the three issue areas above, we're funding community-led work to shape AI that adopts one of the three approaches below. We provide examples for each approach to spark ideas, but are eager to learn from other ways to advance these approaches:

1. **Shaping how AI is governed and used** - Efforts by advocates and communities to strengthen guardrails around AI use and define the rules that govern AI deployment at local, regional, and/or national levels. This might look like a coalition of educators convening a deliberative assembly to establish AI guidelines for schools, or workers organizing around enforceable standards for AI use in the workplace to ensure responsible and ethical use.
2. **Building AI on community terms** - Technical efforts that focus on one or more of the three issue areas and center and advance community needs over profits motivating tech development. We seek to fund work beyond closed, proprietary models owned by for-profit companies, and instead advance development of AI and infrastructure that communities shape and control. Examples include but are not limited to:
 - Evaluations that center overlooked communities
 - Audit approaches that ensure AI systems work as intended
 - Datasets that ensure broad, consensual participation in AI development
 - Artistic and creative approaches to community-led AI infrastructure, including those that reimagine, audit, or challenge AI systems

Within this approach, we prioritize technical proposals focused on AI infrastructure. Proposals focused on AI products that employ novel approaches and fill a gap in communities may also be considered. Eligible products must be co-designed with the communities they serve.

3. **Challenging AI that doesn't serve communities** - Efforts by communities to push back on AI deployments that feel imposed or misaligned with their values and needs, instead elevating approaches that center human agency in decision-making about AI. This might look like artists and cultural organizations using creative interventions to confront dominant narratives about AI and encourage collective action, or a worker coalition challenging the use of AI surveillance in the workplace.

Priority Consideration: Open-Weight & Open-Source AI

Efforts are eligible whether or not they incorporate AI. Where AI models are part of the proposed work's core methodology or deliverables, priority will be given to open-weight and/or open-source models over closed models. See our FAQ for more information.

Funding Tiers

Tiers are intended to provide guidance to help applicants identify the right fit for their work, and we encourage applicants to apply at the funding level their proposal requires:

- **Tier One:** This tier may be a good fit for a fiscally sponsored project involving an individual practitioner with a focused proposal, a two-partner collaboration doing exploratory work, an emerging organization launching an early initiative, or an established organization running a contained pilot.
- **Tier Two:** This tier may be a good fit for a fiscally sponsored project involving an individual practitioner whose work requires sustained time or production resources, a collaboration with meaningful coordination or development costs, an emerging organization with a full-time team working on a defined initiative, or an established organization dedicating staff capacity to a new area of work.
- **Tier Three:** This tier may be a good fit for a coalition of organizations requiring substantial coordination and dedicated staffing, a multi-year initiative with significant technical development or infrastructure costs, an emerging organization building a full-time team around a major initiative, or an established organization launching an ambitious, resource-intensive pilot.

Centers, departments, and programs housed within the same parent organization, including schools, departments, and centers within a college or university, may submit separate applications as long as the proposals are distinct.

Link to Additional Information: <https://humanityai.ai/open-call/>

3. Shared Instrumentation Grant (SIG) Program (S10 Clinical Trial Not Allowed), NIH

Application Deadlines: July 1, 2027

Award Information: up to \$5,000,000 for up to one year

The objective of the Shared Instrumentation Grant (SIG) Program is to support institutions in purchasing a single item of state-of-the-art, high-priced, commercially available research instrument, or an integrated instrumentation system for use in NIH-supported projects. An integrated instrumentation system refers to a dedicated set of components that rely on one another to perform a specific function that no individual component can achieve independently. NIH recognizes that cutting-edge research instruments produce high quality and reproducible data, provide sophisticated technologies to drive innovations in basic, translational, clinical, and biobehavioral research, empower researchers to achieve unprecedented productivity and cost-effective biomedical research operations.

Examples of eligible instruments include, but are not limited to, supercomputing clusters, radiology imaging systems, such as high field MRI, PET/MRI imagers, electron microscopes, biomedical imagers, light microscopes, RNA imagers, nuclear magnetic resonance spectrometers, mass spectrometers, flow cytometers, cell sorters, DNA

and protein sequencers, and X-ray diffractometers. Applications for general purpose computer systems (e.g., supercomputers, computer clusters and data storage systems) will be considered only if the system is dedicated solely to biomedical research.

Applications Not Responsive to this NOFO

The following types of applications are not responsive to this NOFO and will not be reviewed:

- Instruments or integrated systems that are not commercially available or lack a manufacturer's warranty.
- More than one stand-alone workstation for data processing, multiple software licenses, and duplicate software items.
- Software, unless it is integrated in the operation of the instrument and/or necessary for generation of high-quality experimental data from the instrument.
- Research equipment to furnish a research facility (such as autoclaves, hoods, equipment to upgrade research facilities) or general-purpose equipment (such as standard machine shop equipment), equipment for routine sustaining infrastructure (such as standard computer networks or general-purpose data storage systems).
- Instructional equipment used solely for teaching purposes.
- Disposable devices, office furniture, and supplies.
- Alteration or renovation of space to house the instruments.

NIH strongly discourages requests for instruments under lease agreements. In exceptional cases, NIH may consider funding the depreciated value of a leased instrument, but only if it remains state-of-the-art at the time of award.

Link to Additional Information: <https://files.simpler.grants.gov/opportunities/b15b4cd0-da35-4c68-b71c-ae3501bbb2b9/attachments/009caf50-9c95-4fe1-8c1a-215a00f5effb/PAR-27-022-Full-Announcement.html>

4. Research Enhancement Award Program (REAP) for Health Professional Schools and Graduate Schools (R15 Clinical Trial Required), NIH

Application Deadlines: October 25, 2026; February 25, 2027

Award Amount: up to \$375,000 in direct costs for the entire project period of up to 3 years

The National Institutes of Health (NIH) is continuing to make a special effort to stimulate research at educational institutions that provide baccalaureate and/or advanced degrees for a significant number of the Nation's research institutions that have not been major recipients of NIH support. Since Fiscal Year (FY) 1985 Congressional appropriations for the NIH have included funds for this initiative, known as the Academic Research Enhancement Award (AREA) program, that was intended to focus on undergraduate institutions (PAR-21-155). To complement the AREA program, this NOFO specifically supports eligible health professional schools and graduate schools to provide research experiences to health professional, undergraduate and/or graduate students pursuing biomedical or behavioral research.

The three objectives of this NOFO are to:

1. provide support for meritorious research
2. strengthen the research environment at these institutions
3. give health professional, undergraduate and/or graduate students an opportunity to gain significant biomedical research experience through active involvement in the research.

For the purposes of this NOFO, health professional schools and colleges are accredited institutions that provide education and training leading to a health professional degree, including but not limited to: BSN, MSN, DNP, MD, DDS, DO, PharmD, DVM, OD, DPT, DC, ND, DPM, MOT, OTD, DPT, MS-SLP, CScD, SLPD, AuD, MSPO, MSAT, and MPH. Eligible health professional schools/colleges may include schools or colleges of nursing,

medicine, dentistry, osteopathy, pharmacy, veterinary medicine, public health, optometry, allied health, chiropractics, naturopathy, podiatry, rehabilitation medicine, physical therapy, orthotics & prosthetics, kinesiology, occupational therapy and psychology. Accreditation must be provided by a body approved for such purpose by the Secretary of Education.

The REAP program will enable qualified scientists to receive support for small-scale research projects. It is anticipated that investigators supported under the REAP program will benefit from the opportunity to conduct independent research; that the recipient institution will benefit from a research environment strengthened through REAP grants; and that students at recipient institutions will benefit from exposure to and participation in scientific research in the biomedical sciences so that they consider careers in biomedical research. The REAP NOFO emphasizes the engagement and inclusion of health professional, undergraduates and/or graduate students in research.

The research project must involve health professional, undergraduate and/or graduate students and the research team must be composed primarily of health professional, undergraduate and/or graduate students. Student involvement in the research project may include participation in the design of experiments and controls, collection and analysis of data, execution and troubleshooting of experiments, participation in research meetings, and discussion of future directions. When applicable, it is highly desirable that student participation also include presentation at local and/or national meetings, publication of journal articles, and collaborative interactions. The REAP is a research grant program, not a training or fellowship program. As such, applications should not include training plans such as didactic training or non-research activities relating to professional development.

All applications submitted to this Clinical Trial Required REAP NOFO must propose a clinical trial. This NOFO supports investigator-initiated clinical trials proposing mechanistic and/or low/minimal risk studies, with the goal of producing clinical findings that have significant public health impact.

Applicants are encouraged to consult the NIH guidance on clinical trials prior to submission: Does Your Human Subjects Research Study Meet the NIH Definition of a Clinical Trial? | <https://grants.nih.gov/ct-decision/index.htm>

Applicant organizations may submit more than one application, provided that each application is scientifically distinct.

Link to Additional Information: <https://files.simpler.grants.gov/opportunities/b59b92fd-fc9b-4355-9414-7546726446c7/attachments/1cfdd9fa-d299-4be8-b90e-06167c316811/PAR-27-078-Full-Announcement.html>

5. MPS Materials Research Programs (MPS Materials), NSF

Application Deadlines: Proposals Accepted Anytime

Anticipated Funding Amount: \$100,000,000 for an estimated 200 to 300 awards

MPS-supported foundational research showed that semiconductor crystals only a few nanometers wide emit different colors depending on their size. The discovery led to the development of methods for reliably producing "quantum dots" which are necessary for next-generation displays, enhanced biological imaging, and emerging quantum technologies. MPS-supported foundational research also established the theoretical and experimental foundations of topological insulators which allow electricity to flow along their surfaces with exceptional stability and zero energy loss, even in the presence of defects, offering a way to bypass the physical limits of traditional silicon chips.

Materials research projects supported by NSF MPS may be purely experimental. Experimental projects use state-of-the-art laboratory techniques and approaches. Projects may also be theoretical and use computation, data-centric and modeling approaches. Theoretical projects advance fundamental conceptual understanding of hard and soft materials and materials-related phenomena. Many supported projects combine both experimental and theoretical approaches.

Program Description

All proposals to these programs must be submitted through this solicitation, unless specified otherwise in another NSF program solicitation, such as the NSF-wide Faculty Early Career Development program (CAREER).

- **Biomaterials:** Supports foundational research on biological, biomimetic, bioinspired and bioenabled materials, and on synthetic materials intended for applications where they will be in contact with biological systems.
<https://www.nsf.gov/funding/opportunities/bmat-biomaterials>
- **Ceramics:** Supports foundational research on ceramics, glass-ceramics, inorganic glasses, ceramic-based composites and inorganic carbon-based materials to develop predictive capabilities for these materials.
<https://www.nsf.gov/funding/opportunities/cer-ceramics>
- **Condensed Matter and Materials Theory:** Supports foundational theoretical research on hard and soft materials and related phenomena; the development of associated analytical, computational and data-centric techniques; and develops predictive materials-specific theory, simulation and modeling.
<https://www.nsf.gov/funding/opportunities/cmmt-condensed-matter-materials-theory>
- **Condensed Matter Physics:** Supports foundational research in the investigation of the fundamental physics underlying condensed matter systems, including both hard and soft matter.
<https://www.nsf.gov/funding/opportunities/condensed-matter-physics>
- **Electronic and Photonic Materials:** Supports foundational research in the development of advanced materials to enable transformative advances in electronics, optoelectronics and photonics for use in computing, communications and sensing.
<https://www.nsf.gov/funding/opportunities/electronic-photonic-materials>
- **Metals and Metallic Nanostructures:** Supports foundational research on the relationships between structure and properties of metals and their alloys.
<https://www.nsf.gov/funding/opportunities/mmn-metals-metallic-nanostructures>
- **Polymers:** Supports research on the foundations of polymeric materials and polymer science, spanning the molecular level to the nanoscale and macroscale.
<https://www.nsf.gov/funding/opportunities/polymers>
- **Solid State and Materials Chemistry:** Supports foundational research on organic, inorganic and hybrid materials, with an emphasis on materials synthesis and the relationships between material structure and properties.
<https://www.nsf.gov/funding/opportunities/solid-state-materials-chemistry>

Of the programs above, Condensed Matter and Materials Theory is unique in its breadth. It supports theoretical and computational materials research in topical areas spanning all seven other programs.

Other materials research funding opportunities are covered by separate solicitations, including the following:

- Designing Materials to Revolutionize and Engineer our Future (DMREF)
- Materials Research Science and Engineering Centers (MRSEC)
- Materials Innovation Platforms (MIP)
- National user facilities for materials research

- The NSF-wide Faculty Early Career Development Program (CAREER)

Proposals should advance one or more of the following measures of success:

- Publications from research or other scholarly outputs
- Data sets established or expanded
- New technologies or techniques established
- Undergraduates, graduates and postdoctoral fellows supported
- Undergraduate and graduate students trained in a specific critical area

Proposals must demonstrate how the measures of success will occur. Progress on measures of success must be reported in each annual report.

PIs must contact the relevant materials research program before submitting a proposal of these types:

- Early-Concept Grants for Exploratory Research (EAGER)
- Rapid Response Research (RAPID)
- Supplemental funding

Limit on Number of Proposals per Organization: There are no restrictions or limits.

Limit on Number of Proposals per PI or co-PI: 1

Link to Additional Information: <https://www.nsf.gov/funding/opportunities/mps-materials-mps-materials-research-programs/nsf26-521/solicitation>

6. SPIE Outreach Grants Program, Society of Photographic Instrumentation Engineers

Application Deadline: December 1, 2026

Award Amount: up to \$7,500

SPIE is the international society for optics and photonics. Serving a global membership of over 25,000, we bring engineers, scientists, students, and business professionals together to advance light-based science and technology.

SPIE Outreach Grants promote awareness of light-based technologies through a variety of events and activities. From classroom outreach kits to educational community displays, grant-funded projects inform and inspire diverse audiences of all ages.

Eligibility

Applicants must be current SPIE Members. Qualifying not-for-profit organizations such as universities, optics centers, science centers, primary and secondary schools, youth clubs, industry associations, and international optical societies are eligible for outreach activity support, as long as applicant is an SPIE Member. STEM activities must have an optics or photonics component.

An endorsement from a staff member or advisor at the applying organization is required as part of the application process.

Evaluation Criteria

The key criterion in evaluating and ranking applications is the potential to increase optics and photonics awareness among students or the larger community.

A point system is used to judge applications on potential to impact chosen audience potential to raise awareness and interest in optics and photonics clarity and structure of the project clear timeline and budget.

Link to Additional Information: <https://spie.org/community-support/outreach-grants>

7. Seed Instrumentation Support (SIS) Program (S10 Clinical Trial Not Allowed), NIH

Application Deadlines: July 1, 2027

Award Amount: up to \$400,000 for durations of up to one year

Through the Seed Instrumentation Support (SIS) Program, NIH supports the purchase of a single commercialized research instrument that is currently unavailable to the applicant institutions. Like a seed, the instruments are expected to help promote new research opportunities, expand existing research capabilities, foster collaboration and training, and support the growth of future research activities.

Modern research instruments are essential for generating high quality and reproducible data that drive innovations in biomedical and biobehavioral research in all institutions, including low-resource ones. Instruments funded through this program will be shared among users to promote cost-effective research for reproducible biomedical data generation. Hence, the instrument is expected to be placed in a safe and accessible shared resource to maximize collaboration. This NOFO encourages different outcomes based on institutional type: (i) For research-intensive institutions, emphasis is placed on acquiring new or emerging technologies that enable innovative and novel research; and (ii) For low-resource institutions (e.g., R15-eligible institutions that have not received more than \$6 million per year in NIH funding in 4 of the last 7 federal fiscal years), the focus is on building foundational research capacity, expanding the biomedical research workforce, and supporting sustainable, long-term research programs. Institutions applying under this category will clearly justify their low-resource status in the application.

Eligible instruments include, but are not limited to, mass spectrometers, cell sorters, bioimagers, DNA and protein sequencers, light microscopes, 3D printers, and high-performance computers. Applications for general purpose computer systems (computer clusters and data storage systems) will only be considered if the system is solely dedicated to biomedical research.

Foreign-made instruments are allowed. However, the reasons for choosing foreign-made instruments over domestically manufactured instruments will be justified. NIH urges that every effort should be made to give preference to domestically manufactured instruments to the maximum extent possible. Additionally, requesting funds towards purchasing an instrument under a lease agreement is strongly discouraged.

Applications Not Responsive to this NOFO

The following types of applications are not responsive to this NOFO and will not be reviewed:

- Instruments or integrated systems that are not commercially available and do not have a manufacturer's warranty.
- More than one stand-alone workstation for data processing, multiple software licenses, and duplicate software items.
- Software, unless it is integrated in the operation of the instrument and/or necessary for generation of high-quality experimental data from the instrument.
- Research equipment to furnish a research facility (such as autoclaves, hoods, equipment to upgrade research facilities) or general-purpose equipment (such as standard machine shop equipment), equipment for routine sustaining infrastructure (such as standard computer networks or general-purpose data storage systems).
- Purely instructional equipment.
- Disposable devices, office furniture, and supplies.

- Alteration or renovation of space to house the instruments.

Applicant organizations may submit only one application, provided that the type of instrument does not currently exist in the applicant organization (identified by UEI).

Link to Additional Information: <https://files.simpler.grants.gov/opportunities/fd0c942d-4760-41c1-b7c2-57c63b3c0a62/attachments/b2fb276b-13b7-4a27-9a95-1330a4ffdeb7/PAR-27-021-Full-Announcement.html>

8. Institutional Mentored Career Development Award (Parent K12) (Clinical Trials Not Allowed), NIH

Application Deadlines: October 12, 2026; February 12, 2027

Award Amount: application budgets are not limited, but need to reflect the actual needs of the proposed project

The overall goal of the NIH Research Career Development programs is to help ensure that a pool of highly trained scientists is available in appropriate disciplines to address the Nation's biomedical, behavioral, and clinical research needs. More information about career programs may be found at the NIH Extramural Research Training and Career Development website.

This NOFO encourages applications from domestic organizations that propose well-designed, rigorous institutional research career development programs in the mission area(s) of the participating ICs.

Supported K12 scholars will be provided with salary and research support for a period of "protected time" to support a tailored career development plan designed to facilitate the scholar's transition to research independence. Proposed institutional career development programs are expected to build on the existing research foundation of appointed scholars to more fully develop the scholar's knowledge and skills to enable them to lead an independent research program that advances knowledge to enhance the Nation's public health.

Applicant organizations are expected to have the requisite faculty, staff, potential scholars, and facilities on site to conduct the proposed institutional program or sufficient infrastructure to facilitate the recruitment and appointment of scholars nationally if that is the nature of the program proposed. In most cases, it is anticipated that a substantial number of program faculty will have active research projects in which participating scholars may gain relevant experiences consistent with their research interests and goals. The proposed institutional research career development program may complement other, ongoing research training and career development programs at the applicant institution, but the proposed career development experiences are expected to be distinct from those career development programs currently receiving Federal support.

Tailored career development plans

This award may be used to support scholars with different levels of prior research training and at different stages of their professional development. As such, programs are expected to develop individualized career development plans for each scholar as congruent with their stated goals and current skill and knowledge levels. Applications should address the process for how these plans are developed and used during the scholar's appointment to ensure successful transition to the next career stage. Programs are also expected to include cohort development activities that allow scholars to learn from each other, work effectively in teams with colleagues, and communicate scientific advances to a wide variety of audiences (discipline specific and the public).

Mentor training/expectations

Effective and well-prepared mentors are integral to the development and advancement of scholars in their research careers. Funded programs are expected to support effective mentorship by ensuring all program faculty complete formal mentor training and continuing education to enhance the ability of mentors to facilitate the transition of scholars to research independence.

Applicant organizations may submit more than one application, provided that each application is programmatically distinct.

Link to Additional Information: <https://files.simpler.grants.gov/opportunities/a78092c5-6cca-4d8f-adfb-dc268355b574/attachments/d73bf99f-9522-4203-b61a-531a58207b26/PA-27-030-Revised-Full-Announcement.html>

9. Research Education Program - Research Experiences (Parent R25 - Clinical Trial Not Allowed), NIH

Application Deadlines: January 25, 2027

Award Amount: up to \$500,000 in direct costs for durations of up to five years

The NIH Research Education Program (R25) supports research educational activities that complement other formal training programs in the mission areas of the NIH Institutes and Centers.

Consistent with this purpose, the R25 program is designed to advance several key educational and workforce development objectives:

- Support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral, and clinical research needs;
- Help recruit individuals with specific specialty or disciplinary backgrounds to research careers in biomedical, behavioral, and clinical sciences; and
- Foster a better understanding of biomedical, behavioral, and clinical research and its implications.

To help meet these objectives, this Notice of Funding Opportunity (NOFO) will support educational activities with a primary focus on Research Experiences.

Research Education Program Structure

Proposed programs should provide mentored research experiences as part of a comprehensive program based on educational practices designed to stimulate the interest, skills and knowledge base of participants. In addition to providing mentored research experiences, programs are expected to include complementary activities appropriate to the educational stage of program participants that support the participants' scientific development, such as scientific writing and presentation skills, and instruction to enhance rigor and reproducibility in research.

Programs should have clear goals and objectives appropriate for the educational level and needs of the audience to be reached, including the content to be conveyed, and the intended outcome(s). For example, outcomes may include the following:

- For high school and college science teachers: to enhance their knowledge of cutting-edge biomedical research and incorporate relevant technologies and approaches into classroom environments to improve student learning.
- For undergraduate students or postbaccalaureate researchers: to provide hands-on exposure to research, to reinforce their intent to graduate with a science degree, to prepare them for graduate school admissions or careers in research.
- For masters, doctoral, medical, dental, nursing, and other health professional students: to provide research experiences and related training not available through formal NIH training mechanisms.
- For postdoctorates, clinical residents and fellows, and faculty: to extend their skills, experiences, and knowledge base in state-of-the-art biomedical research approaches.

Programs proposed through this R25 can vary in structure and duration. For example, programs can be short-term

(e.g., 8–12-week summer research experiences for students or teachers), a full academic or calendar year (e.g., postbaccalaureate research experiences), or spread over multiple years (e.g., part-time mentored research experiences for clinical residents). Programs should be designed consistent with the stated goals and objectives, and the educational stage of the participants to be reached. The proposed program is expected to align with the mission of the NIH Institute, Center, and Office (ICO) to which the application is submitted.

Applicant organizations may submit more than one application, provided that each application is scientifically distinct.

Link to Additional Information: <https://files.simpler.grants.gov/opportunities/5d178606-a977-4ffe-bddf-bfe72eeb4c43/attachments/ccd4f491-c61d-4227-b6cf-176d666c5ad1/PA-27-036-Full-Announcement.html>

10. NIH Research Education Program - Courses, Curriculum & Methods (Parent R25 - Clinical Trial Not Allowed), NIH

Application Deadlines: January 25, 2027

Award Amount: up to \$500,000 in direct costs for durations of up to five years

The NIH Research Education Program (R25) supports research educational activities that complement other formal training programs in the mission areas of the NIH Institutes and Centers.

Consistent with this purpose, the R25 program is designed to advance several key educational and workforce development objectives:

- Support educational activities that complement and/or enhance training of a workforce to meet the nation's biomedical, behavioral, and clinical research needs;
- Help recruit individuals with specific specialty or disciplinary backgrounds to research careers in biomedical, behavioral, and clinical sciences; and
- Foster a better understanding of biomedical, behavioral, and clinical research and its implications.

To help meet these objectives, this Notice of Funding Opportunity (NOFO) will support educational activities with a primary focus on one or both of the following:

- **Courses for Skills Development:** The proposed course for skills development should provide innovative, state-of-the-art, evidence-based research education that is derived from biomedical, behavioral, social, and/or clinical research methods or findings. The format of the course may involve a traditional in-person approach, online activities, or a hybrid of both approaches based on the needs of the program (for example, advanced courses in a specific discipline or research area, clinical procedures for research, or specialized research techniques).
- **Curriculum or Methods Development:** Proposed curriculum or methods development activities should have high potential to improve biomedical, behavioral, or clinical research education, or involve the development of novel instructional approaches or computer-based tools for research education. While the proposed activities can provide a foundation for new courses at the grantee institution, it is expected that the curriculum or methods developed can be readily adaptable by the research education community.

Applicants should propose projects focused on skills development and provide clear, practical content, with an expectation that participants will leave the program with enhanced research capabilities. Programs that include both didactic and hands-on research experiences, foster partnerships across disciplines and institutions, and employ innovative approaches are encouraged. The proposed program should be appropriate for offering to or being used by

participant audiences that include biomedical, behavioral, and clinical researchers (e.g., health care providers; medical, dental, nursing, and other health professional students; graduate students; and/or members of the lay community involved in the dissemination of health information). Proposed programs are intended for participants at the undergraduate level or later career stages.

Programs submitted under this research education mechanism may vary in structure and duration. For example, the duration of the short courses can vary from one week or less to a maximum of 12 weeks, whereas curriculum or methods development projects may require up to two years for development, testing, and preparation for dissemination before being offered to the intended participant audience. Programs should be designed consistent with the stated goals and objectives, and the educational stage of the audience to be reached. The proposed program is expected to align with the mission of the NIH Institute, Center, or Office (ICO) to which the application is submitted. ICOs will not support projects, regardless of the results of peer review, if they do not align with current programmatic priorities.

Other Considerations

Research education programs may complement ongoing research training and education occurring at the applicant organization, but the proposed educational experiences should be distinct from those training and education programs currently receiving Federal support. Research education programs may augment institutional research training programs (e.g., T32, T90) but cannot be used to replace or circumvent Ruth L. Kirschstein National Research Service Award (NRSA) programs.

Applicant organizations may submit more than one application, provided that each application is scientifically distinct.

Link to Additional Information: <https://files.simpler.grants.gov/opportunities/fdca0af8-d051-432f-b28d-7747ec0e5496/attachments/3051c2cb-cb99-4401-a282-42934b689f56/PA-27-034-Full-Announcement.html>

11. Limited Competition: Instrumentation Grant Program for Resource-Limited Institutions (S10 - Clinical Trial Not Allowed), NIH

Application Deadlines: January 26, 2027

Award Amount: up to \$250,000 for durations of up to one year

This Notice of Funding Opportunity (NOFO) invites applications from institutions that have limited NIH Research Project Grant (RPG) funding, to purchase scientific equipment. Proposed instruments may support scientific projects in NIH-supported basic, translational, clinical, or biomedically related behavioral fields. Students and trainees may also benefit from access to the instrument in formal courses. The requested instrument should invigorate current research, foster new research projects, stimulate collaborations, and enhance education.

The requested instrument should be housed at the recipient institution and placed in a space that maximizes sharing, promotes cost-effectiveness, and fosters a collaborative multi-disciplinary environment. Examples of suitable spaces include a core facility, a shared-resource space, or an accessible laboratory, which may serve as a teaching space.

Allowable equipment

This NOFO provides funds to purchase a single, specialized, commercially available instrument or an integrated instrumentation system. An integrated instrumentation system consists of components that, when used together, perform a function that no single component can achieve. The components must be dedicated to the system and not used independently. Supported instrument types include, but are not limited to: basic cell sorters, confocal microscopes, ultramicrotomes, gel imagers, mass spectrometers, benchtop NMR spectrometers, optical instruments such as fluorimeters or CD spectropolarimeters, centrifuges, 3D printers, micro-plate-readers equipped with optical

systems for high-throughput measurements, FPLCs and HPLCs, and computer systems.

Applications for stand-alone computer systems (e.g., computer clusters and data storage systems) will only be considered if the system is solely dedicated to biomedical research and/or education and alternative access to such services (e.g., commercial cloud services) is not feasible or cost-effective.

Exclusions

Applications with the following characteristics will be considered non-responsive to this NOFO and administratively withdrawn:

- An instrument with a base cost of less than \$25,000.
- A budget request of more than \$250,000.
- Multiple instruments bundled together, e.g., an application that requests more than one type of instrument such as a spectrometer and a microscope.
- Instruments that will be used by fewer than 3 Major Users.
- Purely instructional equipment that cannot be used for research purposes.
- Instruments used for clinical (billable) care.
- Instruments that are not commercially available and do not have a manufacturer's warranty.
- Institutional administrative management systems or clinical management systems.
- Software, unless it is integrated into the operation of the instrument and/or necessary for generation of high-quality experimental data from the instrument.
- Multiple stand-alone workstations for data processing.
- General purpose equipment (such as standard machine shop equipment), instruments to furnish a research facility (such as autoclaves, hoods, equipment to upgrade animal facilities), equipment for routine sustaining infrastructure (such as standard computer networks or data storage systems).
- Disposable devices, office furniture, or supplies.
- Alteration or renovation of space to house the instruments.

Applicants are strongly encouraged to discuss any questions about appropriate types of equipment, eligibility, and program requirements with the appropriate Scientific/Research Contact prior to submitting an application.

Applicant organizations may submit more than one application, provided that each application is scientifically distinct.

Link to Additional Information: <https://files.simpler.grants.gov/opportunities/ca93b895-6ca4-4379-b016-ff97bbb6ce41/attachments/5aa86a1a-782e-410d-8856-f139b4a9ab84/PAR-27-067-Full-Announcement.html>

12. Science Education Partnership Award (SEPA) (R25 - Clinical Trial Not Allowed), NIH

Application Deadlines: January 25, 2027

Award Amount: up to \$250,000 in direct costs, excluding consortium F&A costs, annually, for durations of up to five years

The NIH Research Education Program (R25) supports research educational activities that complement other formal training programs in the mission areas of the NIH Institutes and Centers.

The overarching goal of this NIH Science Education Partnership Award (SEPA) program is to support educational activities that increase understanding of biomedical research among pre-college (pre-kindergarten to grade 12) individuals, and to encourage awareness of and continued interest in careers in science, technology, engineering, and mathematics (STEM).

SEPA supports education projects across two types of settings:

1. Classroom-based education projects for pre-kindergarten to grade 12 (pre-college) students and teachers
2. Informal science education (ISE) projects conducted outside traditional classroom settings.

Applications focused on quantitative and computational skills development are strongly encouraged. Applications from resource-limited institutions are also highly encouraged.

A SEPA application may focus on one or more of the following activities related to any area of biomedical research within NIH's mission:

- **Courses for Skills Development:** Courses in a specific discipline or research area that extend the STEM content normally taught in schools.
- **Research Experiences:** Hands-on exposure to research for pre-college students and teachers.
- **Mentoring Activities:** Providing participants with a perspective on biomedical research pathways and tools for overcoming challenges, navigating career transition points, and successfully transitioning into careers in the biomedical research workforce.
- **Curriculum or Methods Development:** STEM education resources to improve biomedical science education or develop novel instructional approaches or computer-based educational tools.
- **Outreach:** Dissemination of STEM education resources or biomedical research findings to students and teachers.

Research education programs may complement ongoing research training and education occurring at the applicant institution, but the proposed educational experiences must be distinct from those training and education programs currently receiving Federal support.

Applicants are strongly encouraged to consult with the appropriate Scientific/Research Contact listed in the guidelines to determine appropriate mission fit with participating institutes and centers.

Applicant organizations may submit more than one application, provided that each application is scientifically distinct.

Link to Additional Information: <https://files.simpler.grants.gov/opportunities/a17265a0-a839-4e4a-b114-49c9254cd4a7/attachments/359f23ae-8749-4fac-9e6a-301ba17a8054/PAR-27-077-Full-Announcement.html>

13. Limited Competition: Small Grant Program for NHLBI K01/K08/K23/K25 Recipients (R03 Clinical Trial Optional), NIH

Application Deadlines: February 10, 2027

Award Amount: up to \$75,000 per year for durations of up to two years

The purpose of this Limited Competition Notice of Funding Opportunity (NOFO) is to invite applications from eligible organizations to apply. Per Section III. Eligibility, current or recently completed NHLBI K01, K08, K23, and K25 awardees are eligible for small grant support. In accordance with NIH standard peer-review processes, the applications will be peer-reviewed, and only meritorious applications will be considered. This NOFO aims to aid the

effort of facilitating the transition to research independence for these NHLBI K awardees. Active NHLBI K01, K08, K23, and K25 awardees may apply for this R03 support starting in the third year of their K award Project Period. Recently completed NHLBI K01, K08, K23, and K25 award recipients are eligible to apply or resubmit A1 applications if the earliest potential R03 award start date is within two years of the end of their K award Project Period.

The entry and sustainability of well-trained early-stage investigators (ESIs) into NIH-funded independent research roles are crucial for the advancement of our nation's biomedical research. The NIH and NHLBI are committed to supporting ESIs through mentored career development (K) awards and other funding mechanisms. Despite these efforts, many K-award recipients still face challenges in achieving research independence. This funding opportunity seeks to bolster the transition to independent research careers for the next generation of scientific leaders by providing additional support to meritorious programs aiming for R01-equivalent grant support. The added small grant support is expected to have the following benefits:

- Foster fiscal independence as a precursor to research independence.
- Support the generation of additional preliminary data and increase scientific output.
- Provide opportunities for demonstrating success in the peer review process during career development.
- Encourage subsequent R01-equivalent grant applications and improve success rates.
- Enhance the ability of K awardees to manage labs and conduct relatively independent research prior to becoming fully independent investigators.

Specific Areas of Research Interest:

The R03 program allows former and current NHLBI K01, K08, K23, K25 award recipients to expand their current research objectives or explore new studies emerging from their K award research. Projects should be completed within two years and with limited resources. These projects are expected to generate preliminary data to bolster a subsequent R01-equivalent application. Eligible projects include, but are not limited to, pilot or feasibility studies; proof of concept studies; secondary analysis of existing data; small, self-contained research projects; development of new research methodologies or technologies, or creation of novel experimental model systems.

NHLBI encourages every K01, K08, K23, and K25 award recipient to apply for R01-equivalent grant support during the course of their career development awards. According to NIH policy, K recipients may now receive concurrent salary support from an NIH career development award and a research grant under certain circumstances (see NOT-OD-08-065).

Applicant organizations may submit more than one application, provided that each application is scientifically distinct.

Link to Additional Information: <https://files.simpler.grants.gov/opportunities/61b3fa3d-491d-4a13-b580-2000a9d17564/attachments/0d63af42-7ec2-42ab-bddb-1d52991b4055/RFA-HL-27-004-Revised-Full-Announcement.html>

14. Media Projects, NEH

Application Deadlines: May 5, 2027

Award Amount:

- **Development:** up to \$75,000 in direct costs for a duration of 6 to 12 months
- **Production:** up to \$700,000 for documentary films and \$350,000 for radio programs or podcasts for a duration of one to three years

The Media Projects program supports the development, production, and distribution of radio programs, podcasts, and

documentary films that engage general audiences with humanities ideas in creative and appealing ways. Projects must be grounded in humanities scholarship and incorporate an approach that is thoughtful, balanced, and analytical. Proposals must demonstrate the potential to attract a broad general audience and should be intended for national or regional distribution. Film projects may be stand-alone documentaries that are at least a broadcast hour in length, or a limited series of programs with episodes of any length. Radio and podcast projects may be single programs, a limited series, or segments within an ongoing program. Projects may include supplementary components such as discussion programs or websites.

All proposals must:

- build on sound humanities scholarship to deepen public understanding
- approach a subject analytically, presenting a variety of perspectives
- involve humanities scholars from outside your organization in all phases of development and production
- involve appropriate media professionals
- employ appealing and accessible formats that will actively engage the general public
- demonstrate the potential to attract a large public audience

Funding Categories

Media Projects offers two levels of funding: Development and Production.

- **Development** - award to plan outreach and public engagement. Development awards are available only for film projects. The goal of Development awards is to enable film producers to collaborate with scholars to develop humanities content and other program elements. Development awards may support activities such as:
 - meetings with scholars
 - preliminary interviews
 - preparation of detailed program treatments or scripts
 - production of a work-in-progress or trailer
 - creation of partnerships for outreach activities and public engagement
 - archival and other scholarly research

Program outputs are the tangible products that result from the award. The outputs of a successful Development award may include, but are not limited to:

- script(s) or detailed treatment(s)
- scholarly advisory convenings
- preliminary distribution and outreach plan

Outcomes of a successful Development award may include a strengthened humanities framing, production readiness, and clearer pathway to wide distribution.

- **Production** - awards must result in the production and distribution of a radio program, podcast, or a documentary film. Production awards may support activities such as:
 - archival research and rights clearances
 - meetings with scholars
 - additional script development
 - production (including filming, recording, and editing) and distribution
 - development of related resources that explore the humanities content and themes central to the project (e.g., websites and curriculum materials)
 - outreach and public engagement

The outputs of a successful Production award may include, but are not limited to:

- final cut for film/TV or produced podcast/radio episodes ready for broadcast/streaming/theatrical/festival distribution
- digital component(s)

Outcomes of a successful Production award may include broad public engagement with humanities ideas and improved public understanding and discourse.

You may submit multiple applications for separate and distinct projects under this notice. An individual may serve as project director for multiple proposed projects under this notice.

Link to Additional Information: <https://www.neh.gov/program/media-projects>

15. MPS Mathematical Sciences Research Programs (MPS MathSci), NSF

Application Deadlines: Proposals Accepted Anytime; Target submission dates vary by program; see relevant program webpages.

Award Amount: up to \$200,000,000 for an estimated 400 to 600 awards

The U.S. National Science Foundation Directorate for Mathematical and Physical Sciences (NSF MPS) supports research programs at the frontiers of discovery in theoretical and applied mathematical sciences. These programs advance foundational research and support the U.S. mathematical sciences workforce including students who will become the next generation of mathematical science professionals.

Foundational research in the mathematical sciences provides the fundamental language, concepts, and tools that enable advances across science, engineering, technology, and the economy. NSF support for foundational mathematical research has reliably produced transformative advances whose practical applications were not apparent at the time of discovery. NSF MPS supported research in the areas of algebra, number theory, and combinatorics, which underpins modern cryptography, cybersecurity, digital commerce, and national security. Similarly, NSF-supported research in probability theory, statistics, and computational methods has contributed to the mathematical foundations of data science, artificial intelligence (AI) and machine learning. Training today's large language models and other AI systems requires solving large-scale optimization problems enabled by these mathematical tools and techniques. Research in fields, such as algebra, geometry, differential equations, and topology substantially contributes to the study of condensed matter and quantum materials physics, including correlated, magnetic, and topological states; gravitational physics and geodesy; and the study of space and space-time.

Program Description

This solicitation covers proposal submissions to the following NSF MPS programs. Research proposals that fit within a single program and interdisciplinary proposals that span multiple programs are both welcome. See the Proposal Preparation Instructions below for instructions to identify the relevant program.

NSF MPS anticipates a portfolio of awards with a range of budgets and durations. Project budgets and durations must be commensurate with the scope of the proposed work. Estimated program budget, number of awards, and average award size/duration are subject to the availability of funds.

Proposals should advance one or more of the following measures of success:

- Publications from research or other scholarly outputs
- Improvements in student educational outcomes
- Undergraduates, graduates or postdoctoral fellows supported

- Undergraduate or graduate students trained in a specific critical area
- Data sets established or expanded
- New technologies or techniques established.

Core programs

- **Algebra and Number Theory:** Supports research in algebra, algebraic and arithmetic geometry, number theory and representation theory.
<https://www.nsf.gov/funding/opportunities/algebra-number-theory>
- **Analysis:** Supports research in analysis, including complex, harmonic, and real analysis, dynamical systems and ergodic theory, functional analysis, mathematical physics, operator theory and operator algebras, partial differential equations and calculus of variations.
<https://www.nsf.gov/funding/opportunities/analysis>
- **Applied Mathematics:** Supports mathematics research motivated by or affecting problems arising in science and engineering.
<https://www.nsf.gov/funding/opportunities/applied-mathematics>
- **Combinatorics:** Supports research on discrete structures. Focus areas include algebraic and geometric combinatorics, probabilistic and structural graph theory.
<https://www.nsf.gov/funding/opportunities/combinatorics>
- **Computational Mathematics:** Supports the development and analysis of innovative approaches to address the broad range of mathematical questions and challenges that arise from the implementation of numerical algorithms.
<https://www.nsf.gov/funding/opportunities/computational-mathematics>
- **Foundations:** Supports research in mathematical logic and foundations of mathematics, including set theory, model theory, computability theory and infinitary combinatorics, as well as applications to other areas such as artificial intelligence, formal verification, machine learning, quantum and more.
<https://www.nsf.gov/funding/opportunities/foundations>
- **Geometric Analysis:** Supports research in differential geometry, geometric group theory, geometric methods in modern mathematical physics, geometric partial differential equations and related geometric topics.
<https://www.nsf.gov/funding/opportunities/geometric-analysis>
- **Mathematical Biology:** Supports research in all areas of mathematical sciences relevant to the biological and life sciences.
<https://www.nsf.gov/funding/opportunities/mathematical-biology>
- **Probability:** Supports research on the theory and applications of probability including discrete probability, stochastic processes, limit theory, interacting particle systems, stochastic differential and partial differential equations and Markov processes.
<https://www.nsf.gov/funding/opportunities/probability>
- **Statistics:** Supports research in statistical theory and methods, including research that leads to applications in any domain of science and engineering.

<https://www.nsf.gov/funding/opportunities/statistics>

- **Topology:** Supports research in algebraic topology, contact and symplectic structures, geometric topology, low dimensional topology and related topological topics.
<https://www.nsf.gov/funding/opportunities/topology>
- **Mathematical Sciences Research Infrastructure:** Supports research infrastructure across the mathematical sciences community including training projects that complement existing opportunities.
<https://www.nsf.gov/funding/opportunities/mathematical-sciences-infrastructure-program>

Conferences and workshops

Proposals for conferences and workshops held in U.S.-based institutions may be submitted via the programs above. The topical area of the proposed conference or workshop must be within the scope of the program to which it is submitted.

Conference and workshop proposals that span multiple disciplinary programs, such as cross-cutting research activities, must be submitted to the Mathematical Sciences Research Infrastructure program.

Limit on Number of Proposals per Organization: There are no restrictions or limits.

Limit on Number of Proposals Per PI or Co-PI: There are no restrictions or limits.

Link to Additional Information: <https://www.nsf.gov/funding/opportunities/mps-mathsci-mps-mathematical-sciences-research-programs/nsf26-520/solicitation>

Proposals Accepted Anytime

1. Division of Environmental Biology, NSF
<https://www.nsf.gov/funding/opportunities/deb-division-environmental-biology/nsf24-543/solicitation>
2. Condensed Matter and Materials Theory (CMMT), NSF
<https://www.nsf.gov/funding/opportunities/cmmt-condensed-matter-materials-theory>
3. Division of Materials Research: Topical Materials Research Programs (DMR: TMRP), NSF
<https://www.nsf.gov/funding/opportunities/dmr-tmrp-division-materials-research-topical-materials-research/nsf23-612/solicitation>
4. Research in the Formation of Engineers, NSF
<https://www.nsf.gov/funding/opportunities/rfe-research-formation-engineers>
5. Manufacturing Systems Integration (MSI), NSF
<https://www.nsf.gov/funding/opportunities/msi-manufacturing-systems-integration>
6. Electronics, Photonics and Magnetic Devices (EPMD), NSF
<https://www.nsf.gov/funding/opportunities/epmd-electronics-photonics-magnetic-devices>
7. Plant Genome Research Program (PGRP), NSF
<https://www.nsf.gov/funding/opportunities/pgrp-plant-genome-research-program/nsf24-547/solicitation>

8. Communications, Circuits, and Sensing-Systems (CCSS), NSF
<https://www.nsf.gov/funding/opportunities/ccss-communications-circuits-sensing-systems>
9. Fluid Dynamics, NSF
<https://www.nsf.gov/funding/opportunities/fluid-dynamics>
10. Biophotonics, NSF
<https://www.nsf.gov/funding/opportunities/biophotonics>
11. Environmental Sustainability, NSF
<https://www.nsf.gov/funding/opportunities/environmental-sustainability>
12. Particulate and Multiphase Processes, NSF
<https://www.nsf.gov/funding/opportunities/particulate-multiphase-processes>
13. Interfacial Engineering, NSF
<https://www.nsf.gov/funding/opportunities/interfacial-engineering>
14. Nanoscale Interactions, NSF
<https://www.nsf.gov/funding/opportunities/nanoscale-interactions>
15. Combustion and Fire Systems (CFS), NSF
<https://www.nsf.gov/funding/opportunities/cfs-combustion-fire-systems>
16. Infrastructure Innovation for Biological Research (Innovation), NSF
<https://www.nsf.gov/funding/opportunities/innovation-infrastructure-innovation-biological-research/nsf23-578/solicitation>
17. Infrastructure Capacity for Biological Research (Capacity), NSF
<https://www.nsf.gov/funding/opportunities/capacity-infrastructure-capacity-biological-research/nsf23-580/solicitation>
18. Energy, Power, Control, and Networks (EPCN), NSF
<https://www.nsf.gov/funding/opportunities/epcn-energy-power-control-networks>
19. Engineering of Biomedical Systems, NSF
<https://www.nsf.gov/funding/opportunities/engineering-biomedical-systems>
20. Catalysis, NSF
<https://www.nsf.gov/funding/opportunities/catalysis>
21. Process Systems, Reaction Engineering, and Molecular Thermodynamics, NSF
<https://www.nsf.gov/funding/opportunities/process-systems-reaction-engineering-molecular>
22. Disability and Rehabilitation Engineering (DARE), NSF
<https://www.nsf.gov/funding/opportunities/dare-disability-rehabilitation-engineering>
23. Cellular and Biochemical Engineering, NSF
<https://www.nsf.gov/funding/opportunities/cellular-biochemical-engineering>

24. Facility and Instrumentation Request Process (FIRP), NSF
<https://www.nsf.gov/funding/opportunities/firp-facility-instrumentation-request-process/nsf23-602/solicitation>
25. Research Infrastructure in the Social and Behavioral Sciences (RISBS), NSF
<https://www.nsf.gov/funding/opportunities/risbs-research-infrastructure-social-behavioral-sciences>
26. Mind, Machine and Motor Nexus (M3X), NSF
<https://www.nsf.gov/funding/opportunities/m3x-mind-machine-motor-nexus>
27. Cyberinfrastructure for Public Access and Open Science, NSF
<https://www.nsf.gov/funding/opportunities/ci-paos-cyberinfrastructure-public-access-open-science>
28. Multilateral Partnerships Leveraging Excellence (MultiPLEx), NSF
<https://www.nsf.gov/funding/opportunities/multiplex-multilateral-partnerships-leveraging-excellence>
29. Life and Environments Through Time (LET), NSF
<https://www.nsf.gov/funding/opportunities/let-life-environments-through-time/nsf25-517/solicitation>
30. Infrastructure Systems and People (ISP), NSF
<https://www.nsf.gov/funding/opportunities/isp-infrastructure-systems-people>
31. Facilitating Research at Primarily Undergraduate Institutions: Research in Undergraduate Institutions (RUI) and Research Opportunity Awards (ROA), NSF
<https://www.nsf.gov/funding/opportunities/rui-roa-pui-facilitating-research-predominantly-undergraduate/nsf14-579/solicitation>
32. Growing Research Access for Nationally Transformative Economic Development (GRANTED), NSF
<https://www.nsf.gov/funding/opportunities/granted-growing-research-access-nationally-transformative-economic>
33. Research in the Formation of Engineers (RFE), NSF
<https://www.nsf.gov/funding/opportunities/rfe-research-formation-engineers>
34. STEM K-12, NSF
<https://www.nsf.gov/funding/opportunities/stem-k-12-nsf-stem-k-12/nsf25-545/solicitation>
35. Economics, NSF
<https://www.nsf.gov/funding/opportunities/economics>
36. Division of Integrative Organismal Systems Core Programs, NSF
<https://www.nsf.gov/funding/opportunities/ios-division-integrative-organismal-systems-core-programs/nsf24-546/solicitation>
37. National Innovation Corps Teams (NSF National I-Corps (TM) Teams) program, NSF
<https://www.nsf.gov/funding/opportunities/nsf-national-innovation-corps-teams-nsf-national-i-corps-tm/nsf25-549/solicitation>

Announcing Previous Important Funding Opportunities

1. Security, Privacy, and Trust in Cyberspace, NSF
Deadline: September 28, 2026
<https://www.nsf.gov/funding/opportunities/satc-20-security-privacy-trust-cyberspace/nsf25-515/solicitation>
2. MPS Chemistry Research Programs (MPS Chem), NSF
Deadline: September 28, 2026
<https://www.nsf.gov/funding/opportunities/satc-20-security-privacy-trust-cyberspace/nsf25-515/solicitation>
3. Biological Technologies, Defense Advanced Research Projects Agency (DARPA)
Deadline: until September 30, 2026 (Abstract); by invitation only (FP)
<https://sam.gov/opp/8d403582edfd409795560247e8d229b7/view>
4. EDU Core Research (ECR:Core), NSF
Deadline: October 1, 2026
<https://www.nsf.gov/funding/opportunities/ecrcore-edu-core-research/nsf21-588/solicitation>
5. Maximizing Investigators Research Award (MIRA) for Early-Stage Investigators (ESI) (R35 - Clinical Trial Optional), NIH
Deadline: October 2, 2026
<https://www.grants.gov/search-results-detail/360593>
6. Research Opportunities in Cancer Epidemiology Cohort Studies (U01 Clinical Trial Not Allowed), NIH
Deadline: October 5, 2026
<https://files.simpler.grants.gov/opportunities/0536c0e6-e21d-4548-8511-a293babd20b8/attachments/47e9b80e-711f-4061-8b0c-97500144d824/PAR-27-073-Full-Announcement.html>
7. Causal Hypotheses on the Oral-Systemic Health Impacts of Human Behaviors among People with Chronic Conditions (U01 Clinical Trial Not Allowed), NIH
Deadline: October 5, 2026
<https://files.simpler.grants.gov/opportunities/1e7f7ee0-15b6-4fac-a5c1-7605cc242e43/attachments/059dd144-2b6f-4fbe-b3fb-8d395d823af6/PAR-27-057-Full-Announcement.html>
8. Computer and Information Science and Engineering (CISE): Future Computing Research, NSF
Deadline: October 5, 2026
<https://www.nsf.gov/funding/opportunities/future-core-computer-information-science-engineering-future-computing/nsf25-543/solicitation>
9. BRAIN Initiative: Theories, Models and Methods for Analysis of Complex Data from the Brain (R01 Clinical Trial Not Allowed), NIH
Deadline: October 6, 2026
<https://grants.nih.gov/grants/guide/rfa-files/RFA-DA-27-004.html>
10. Mathematical Foundations of Artificial Intelligence, NSF
Deadline: October 9, 2026
<https://www.nsf.gov/funding/opportunities/mfai-mathematical-foundations-artificial-intelligence/nsf24-569/solicitation>

11. Engineering Research Initiation (ERI), NSF
Deadline: October 9, 2026
<https://www.nsf.gov/funding/opportunities/eri-engineering-research-initiation/nsf24-590/solicitation>
12. Higher Education Challenge (HEC) Grants Program, USDA/NIFA
Deadline: October 15, 2026
https://www.nifa.usda.gov/grants/programs/higher-education-challenge-grants-program-hec?utm_content=&utm_medium=email&utm_name=&utm_source=govdelivery&utm_term=
13. Young Investigator Program (YIP), Office of Naval Research
Deadline: October 30, 2026
<https://simpler.grants.gov/opportunity/19850d71-3af6-4f9f-bf6e-1ee9b1f8d8b7>
14. Information Innovation Office (I2O) Office-Wide, Defense Advanced Research Projects Agency (DARPA)
Deadline: until November 1, 2026 (Abstract); by invitation only (FP)
<https://sam.gov/opp/091b4d199d7241dbbb04b8d36eb88a16/view>
15. Basic, Applied, and Advanced Research in Science and Engineering, US Army Corps of Engineers (USACE) Engineer Research and Development Center (ERDC)
Deadline: until January 1, 2027 (Pre-Proposal); by invitation only (FP)
<https://www.erdcenter.usace.army.mil/>
16. Grants Program, AMGEN Foundation
Deadline: Proposals Accepted Throughout the Year
<https://www.amgen.com/responsibility/healthy-society/community-investment/amgen-foundation/amgen-foundation-grants/amgen-foundation-grant-guidelines>



Universidad *de Puerto Rico*

LA MEJOR EDUCACIÓN A TU ALCANCE

VICEPRESIDENCIA DE RECURSOS EXTERNOS
ADMINISTRACIÓN CENTRAL