



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 1/10/2025 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.

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1. Materials Innovation Platforms (MIP), NSF

Application Deadline: May 15, 2025

Anticipated Funding Amount: between \$18,000,000 to \$30,000,000 over a six-year period

Materials Innovation Platforms (MIP) is a mid-scale infrastructure program in DMR that supports transdisciplinary research and training, cutting-edge tools, and knowledge sharing in key enabling areas of national priority.

The MIP Program aligns with the Materials Genome Initiative (MGI), which strives to "discover, manufacture, and deploy advanced materials twice as fast, at a fraction of the cost." In the MGI Strategic Plan published in 2021, three major goals were identified. They are unify the materials innovation infrastructure; harness the power of materials data; and educate, train, connect the materials R&D workforce. The MIP program, established in 2015, has made major contributions to each of the three major goals.

Fiscal Year 2025 MIP Competition

Studying materials, as well combinations of materials, with increasing functionalities dovetails with MGI Challenges: 1) Protecting and improving human health, 2) Delivering sustainable and resilient energy, 3) Thriving in extreme environments, 4) Enhancing structural performance, 5) Protecting the environment, 6) Propelling the information and communications technology revolution, and 7) Advancing Critical and Emerging Technology.

The topic of the second MIP competition, the convergence of materials research with biological sciences for developing new materials, was selected with the recognition of growing areas of soft and bio-inspired materials for exploring rich new horizons of complexity and functionality that require their own set of innovative synthesis techniques. This third MIP competition focuses on a different set of complex materials: alloys, amorphous, and composite materials. Proposals mainly on biomaterials and polymer research will not be considered in the third MIP competition because the second MIP competition in 2019 included an emphasis on these topics.

A successful MIP must be transformational, focus on a grand challenge or challenges of fundamental research, and align with national priorities. Some grand challenges are identified in, as examples:

- Materials Genome Initiative (MGI) Strategic Plan
- Frontiers of Materials Research: A Decadal Survey
- Closing the Loop: Materials Instrumentation

Additional Information for MIP

The complexity and challenge of activities addressed by this program require a transformative approach to discovering and developing new materials, predicting and optimizing properties of these materials, and informing the design of materials systems. MIPs are driven by the MGI approach with materials synthesis/processing, materials characterization, and theory/modeling/simulation applied iteratively to realize targeted outcomes. Accordingly, the proposed activities must close-the-loop, i.e., be a collaborative and iterative process wherein, for example, theory guides computational simulation, computational simulation guides experiments, and experiments further inform theory. It should be noted that the loop can be entered from any point, not just from theory, and can be bidirectional (e.g., experimental results improve simulation). Through this tightly connected iterative process, new discoveries are anticipated to occur at a faster rate than conventional modes of collaboration. Advances in each of the three areas (synthesis/processing, characterization, and theory/modeling/simulation) are expected for MIPs. The interactive, closed-loop process is required for in-house research and is expected for the user program as a whole, but not required for individual user projects.

MIPs are expected to offer state-of-the-art materials synthesis/processing tools. Advancement in characterization methodologies and theory/modeling/simulation approaches that benefit the research endeavor is also expected. While all instruments needed for world-class research facilities will be considered, a high priority for the MIP Program is to support instruments with unique capabilities. Acquisition of instruments readily available at universities in the United States is a lower priority. In addition, MIPs are expected to be at the forefront of the intelligent deployment of artificial

intelligence/machine learning (AI/ML) techniques and the implementation of autonomous experimentation. Acquisition and development of fully or partially autonomous equipment, as well as developing autonomous workflow, is highly encouraged. However, this solicitation does not limit the requested equipment to autonomous ones.

MIPs provide access to existing and new instrumentation, techniques, samples, software, modeling and simulation tools, data, databases and other resources to the broad scientific community. MIPs go beyond traditional user facilities that provide access to instrumentation; they create and nurture scientific ecosystems by bringing together the scientific and technical expertise of in-house researchers, users, and other scientists through knowledge and data sharing. Specifically, the tools supported by NSF MIP funding are for shared use by users and for in-house research; each MIP also develops and uses mechanisms to share codes, samples, data, and know-how among a community of practitioners (in-house researchers, users, and other scientists). A MIP is also expected to leverage the emerging field of data science as part of the integration and iteration of experiment and computational efforts. and, as appropriate, to utilize cloud resources for data storage and sharing. Because of these efforts and a transdisciplinary team, each MIP is a scientific ecosystem that promotes cross-fertilization of ideas and enables new science that cannot be accomplished otherwise.

The MIP Program will support acquisition and development of instruments, software and databases; service contracts on purchased equipment; professional staffing including support for the principal investigators, other senior/key personnel and technicians; and a limited number of students and postdoctoral researchers.

Link to Additional Information: <https://new.nsf.gov/funding/opportunities/mip-materials-innovation-platforms/nsf25-521/solicitation>

2. Smart and Connected Communities (S&CC), NSF

Application Deadline:

- **Preliminary Proposal (required):** February 20, 2025
- **Full Proposal:** April 04, 2025

Award Budget:

- **S&CC Development Grants (SCC-DGs):** up to \$150,000 for a period of one year
- **S&CC Integrative Research Grants (SCC-IRG):** up to \$1,500,000 for a period of three to four years
- **S&CC Large-Scale Research (SCC-LSR):** budgets ranging from \$4,000,000 to \$5,000,000 for periods of up to four or five years.

The goal of this solicitation is to accelerate the creation of the scientific and engineering foundations that underpin novel intelligent technologies, concepts, and solutions that address major societal challenges and will bring about new levels of economic opportunity and growth, safety and security, human and environmental health and wellness, and improve overall quality of life for people.

The specific objectives of this solicitation are to: (1) support transformative, high-risk and high-reward scientific and engineering research that enables new intelligent capabilities for communities to improve quality of life for people; (2) foster the development of a skilled multidisciplinary and diverse research community that encompasses and integrates the perspectives of scientists and engineers supported by the NSF directorates and divisions participating in this solicitation; (3) integrate community perspectives with research activities to develop novel technologies and concepts that are directly informed by community needs and challenges (4) conduct robust and quantitative evaluation of research to validate outcomes.

Proposals submitted to this program must undertake interdisciplinary research that advances innovation beyond today's state-of-the-art in the "smart community" space. Proposed research must make fundamental contributions in two or more primary areas of interest to the participating directorates and divisions in the program. The S&CC program defines "primary areas of interest" as being computer and information sciences, civil and mechanical engineering, geosciences, and/or social, learning, and behavioral sciences. As an example, integration between disciplines in computer and information sciences and geosciences would be considered relevant to the program. However, integration of

subdisciplines in only one primary area of interest to the program will not be considered relevant to this solicitation (e.g., a proposal that only makes contributions within social science subdisciplines). Project descriptions must comprehensively describe how a well-integrated, interdisciplinary research team will make contributions that are greater than the sum of each of the individual contributions.

Proposal Categories

- **S&CC Development Grants (SCC-DGs):** SCC-DG awards should prepare project teams to submit well-developed SCC-IRG or SCC-LSR proposals within a 12-month timeframe from award date. The proposal must describe its vision for a future IRG proposal and how the proposed research and activities during the development grant will prepare the team for achieving this vision. The range of planning activities to prepare for future IRG or LSR submissions include, but are not limited to, exploring the viability of high-risk/high-reward research concepts; effectively integrating the research perspectives of multiple disciplines; examining community contexts and building collaborations with relevant stakeholders; filling gaps in research and expertise; and refining research questions and hypotheses.
- **S&CC Integrative Research Grants (SCC-IRG):** These awards support transformative projects that advance fundamental research in technological, environmental, and/or social and behavioral disciplines by conducting use-inspired research motivated by major challenges and issues faced by communities across the US. IRG proposals must be well-integrated across multiple disciplines and make a convincing case that the interdisciplinary contributions of the project team will be greater than the sum of the individual disciplinary contributions. IRG proposals are also required to have robust evaluation plans with clearly defined methodologies and metrics for assessing and validating research outcomes and goals.
- **S&CC Large-Scale Research (SCC-LSR):** These proposals must clearly identify and address critical S&CC science and engineering challenges that cannot be achieved by a set of smaller IRG projects. LSR projects should also look to push the boundaries of smart and connected communities research well beyond today's state-of-the-art systems and capabilities. The goal, scale, and degree of integration of the proposed research must clearly require a major investment. The research plan must include validation of theory through empirical demonstration via prototypes and/or testbeds.

Link to Additional Information: <https://new.nsf.gov/funding/opportunities/scc-smart-connected-communities/nsf25-527/solicitation>

3. Translation and Diffusion (TD), NSF

Application Deadlines: April 1, 2025

Award Information:

- **Research on Translation or Diffusion:** up to \$1 million with a duration of up to three years
- **Proof-of-Concept Research:** up to \$1 million with a duration of up to three years
- **Synthesis:** up to \$500,000 with a duration of up to three years
- **Conference/Workshop:** between \$25,000 and \$99,000

The purpose of the Translation and Diffusion (TD) program is to foster the reciprocal process by which scientific knowledge is translated and diffused to and from practice in a responsible and ethical manner that serves the goals of STEM education practice while enriching the sciences informing it. The importance of overcoming impediments to the translation of insights between research and practice has long been recognized by fields as diverse as medicine, international development, public policy, defense, and agriculture.

The first goal of this funding opportunity is to advance the sciences of translation and diffusion in STEM education, broadly construed, especially between fields and across levels-of-analysis and contexts. The second goal is to facilitate actual efforts at moving specific research knowledge, along this continuum within STEM education, by providing funding

for early steps such as proof-of-concept research and human and social capital network development. Indeed, there are increasingly urgent calls for federal funding agencies explicitly to support efforts to understand the processes involved in sustainability and scaling in order to move research findings to practical knowledge, more potentially usable by educators (National Academies of Sciences, Engineering, and Medicine. 2022, 2024). This solicitation represents a larger effort of EDU to move STEM education inquiry and discovery toward useable STEM practice, to improve understanding of the components and complexity of effective practice, and to accelerate the mobilization of knowledge in a manner that is both based in evidence as well as evidence generating.

TD invites four types of proposals:

- **Research on Translation or Diffusion:** proposals request funding to conduct research that will advance the sciences of translation or diffusion of research knowledge, along the STEM research-practice continuum. Such proposals may entail developing theories, frameworks, or models and conducting empirical research. They also may entail the exploration and adaptation of models to the field of education from other domains (e.g., agricultural extension models or bench-to-bedside models of translational medicine) or the development of novel approaches specific to STEM learning and education. Proposals may also study the emergence of questions, theories, models, methods, products, and findings and how they diffuse across fields and along the continuum between basic research and practice and how they move across levels of scale in formal PreK-12 STEM education. Proposals may include, but are not limited to, studies of multidisciplinary teams engaged in translation and diffusion or other relevant aspects of human and social capital. The program is methodologically agnostic, and projects could entail case studies, ethnography, surveys, social network analysis, systematic or integrative reviews, bibliometric analysis, experiments, or any other rigorous means that warrant the kinds of claims the proposal describes.
- **Proof-of-Concept Research:** proposals embody specific models to translate findings across levels-of-analysis. For example, taking basic research insights derived within specific disciplines or contexts of application toward more complex and authentic applications or determining if a specific concept or skill from the more basic literature is an appropriate target for STEM education. Empirical and theory-building efforts to adapt initial insights from research or practice across significantly different contexts, populations, domains, and levels-of-analysis are also welcome. Proof-of-Concept Research proposals aim to move particular knowledge or products on the research-practice continuum closer to practice or identifying the constructs and interactions associated with demonstrably effective practice.
- **Synthesis:** proposals may request funding for projects that critically integrate the current state of knowledge on a particular topic relevant to translation and diffusion in STEM education. Synthesis studies may be in the form of a literature review, qualitative or mixed methods meta-synthesis, or meta-analysis. They should strive both to present the state of the knowledge across fields and, where appropriate, highlight issues for future research and development. Synthesis proposals should explain and justify the methodological approach to be adopted and should outline the steps for literature identification, decision points (e.g., identifying inclusion and exclusion criteria and outcome measures of interest), and systematic techniques to ensure all relevant research is included, and that information is gathered accurately across studies. Proposals should place particular emphasis on the goals and outcomes of the synthesis and the dissemination plan. Synthesis proposals should target novel and potentially transformative translational issues in the field.
- **Conference/Workshop:** proposals may request funding to address a specific activity related to translation or diffusion. They may bring together stakeholders to develop research agendas for the field, model-building, and other activities important to moving issues of translation and diffusion forward. This will likely entail the identification of the expertise needed, disciplinary and methodological knowledge, and the general setting of plans to move an insight or hypothesis along the research-to-practice continuum toward the next stage or level of analysis. Conferences might address questions such as: What are viable models for translation and diffusion in education? What's ready for translation, and to whom and where? How do we know? And, if ready, what would effective translation of a particular promising principle or practice entail?

Investigators must contact a cognizant TD Program Officer prior to submission.

Link to Additional Information: <https://new.nsf.gov/funding/opportunities/td-translation-diffusion/nsf25-528/solicitation>

4. Agriculture and Food Research Initiative Competitive Grants Program Foundational and Applied Science Program, USDA/NIFA

Application Deadlines: see specific program

Award Information: see specific program

AFRI is America's flagship competitive grants program that provides funding for fundamental and applied research, education, and extension projects in the food and agricultural sciences. In this RFA, NIFA requests applications for the six AFRI priority areas through the Foundational and Applied Science Program for 2025. The goal of this program is to invest in agricultural production research, education, and extension projects for more sustainable, productive, and economically viable plant and animal production systems.

Applications that address climate change, food and nutrition security, expanding markets for producers, traditional ecological knowledge, and equity for underserved producers are welcome. Also welcome are applications that incorporate virtual learning options, where appropriate and practical for integrated programs. In 2025, applications are sought in the following priority areas:

1. **Plant health and production and plant products (PHPPP):** The goal of the program area is to ensure continued production gains are achieved through break-through discoveries and the translation of these into plant production and protection practices. The outcomes of these projects are expected to increase production efficiencies and combat persistent threats and new challenges, including climate change, that limit the achievement of dependable yields across variable growing conditions.
2. **Animal health and production and animal products (AHPAP):** Basic and applied research at the genetic, genomic, molecular, cellular, microbiome, and organ systems levels are essential to control and prevent animal diseases, reduce animal health and production costs, enhance nutritional quality of animal products, and mitigate environmental impacts. New knowledge gained from this research will lead to better management strategies for both conventional and organic production systems to enhance production efficiency, improve animal health and welfare, and develop high quality animal products for human use.
3. **Food safety, nutrition, and health (FSNH):** The program area seeks to provide the scientific foundation for addressing equitable public demands for safe, high quality, accessible and nutritious foods throughout the lifecycle, using a transdisciplinary approach, and to explore previously unrealized opportunities for improving food safety, quality and nutrition along the value chain.
4. **Bioenergy, natural resources, and environment (BNRE):** The program area supports foundational and applied research and integrated projects to promote, improve, and maintain healthy agroecosystems and the natural resources that are essential to the sustained long-term production of agricultural and forestry goods and services. BNRE addresses national priorities including efforts to advance the bioeconomy and help farms and ranches, forests, and rangelands adapt to a changing climate.
5. **Agriculture systems and technology (AST):** The program emphasizes the interrelationships between agricultural systems components to develop the next generation of engineered systems, products, processes, and technologies. AST blends biological, physical, and social sciences, thus, leading to sustainable, competitive, and innovative solutions for United States and global agriculture and food systems, encompassing both conventional and organic production. To the extent possible, applicants are recommended to incorporate interdisciplinary sciences.

6. **Agriculture economics and rural communities (AERC):** The Agriculture Economics and Rural Communities (AERC) program area supports rigorous economic and social science research that informs decision making, policy design, and implementation to enhance the sustainability of agricultural production systems and natural resources, promote rural economic development and prosperity, enhance quality of life, and alleviate poverty.

This AFRI RFA will support projects that significantly advance foundational and applied sciences for the following USDA priority outcomes:

1. Human diversity, equity, inclusion, and access.
2. Agricultural practices that provide for adaptation to ecological perturbation and mitigate climate change.
3. Rural economic development and post-pandemic economic revitalization.
4. Food and nutrition security.
5. Open and competitive markets.

Program Area	Program Code	Program Area Priority Name	Review Cycle Deadlines
PHPPP	A1102	1a. Foundational Knowledge of Agricultural Production Systems	September 11, 2025
PHPPP	A1103	1b. Foundational Knowledge of Plant Products	August 7, 2025
PHPPP	A1112	1c. Pests and Beneficial Species in Agricultural Production Systems	September 18, 2025
PHPPP	A1152	1d. Physiology of Agricultural Plants	August 14, 2025
PHPPP	A1141	1e. Plant Breeding for Agricultural Production	September 4, 2025
PHPPP	A1113	1f. Pollinator Health: Research and Application	August 21, 2025
PHPPP	A1143	1g. Conventional Plant Breeding for Cultivar Development	August 28, 2025
AHPAP	A1211	2a. Animal Reproduction	August 7, 2025
AHPAP	A1231	2b. Animal Nutrition, Growth and Lactation	August 7, 2025
AHPAP	A1251	2c. Welfare of Agricultural Animals	August 7, 2025
AHPAP	A1221	2d. Diseases of Agricultural Animals	August 7, 2025
AHPAP	A1201	2e. Animal Breeding, Genetics, and Genomics	August 7, 2025
FSNH	A1332	3a. Food Safety and Defense	August 21, 2025
FSNH	A1364	3b. Novel Foods and Innovative Manufacturing Technologies	September 11, 2025
FSNH	A1344	3c. Diet, Nutrition, and the Prevention of Chronic Diseases	August 7, 2025
FSNH	A1343	3d. Food and Human Health	August 7, 2025
FSNH	A1366	3e. Mitigating Antimicrobial Resistance Across the Food Chain	September 18, 2025
BNRE	A1401	4a. Soil Health	September 11, 2025
BNRE	A1411	4b. Water Quantity and Quality	September 4, 2025
BNRE	A1414	4c. Sustainable Bioeconomy through Biobased Products	September 4, 2025
BNRE	A1451	4d. Sustainable Agroecosystems	September 11, 2025
BNRE	A1461	4e. Environmental Justice for Agriculture and Nutrition Security	September 18, 2025
AST	A1521	5a. Engineering for Agricultural Production and Processing	October 2, 2025
AST	A1531	5b. Biorefining and Biomanufacturing	October 9, 2025
AST	A1511	5c. Nanotechnology for Agricultural and Food Systems	August 21, 2025
AST	A1551	5d. Engineering for Precision Crop and Water Management	October 9, 2025
AERC	A1601	6a. Small and Medium-Sized Farms	September 4, 2025
AERC	A1641	6b. Economics, Markets and Trade	October 2, 2025
AERC	A1642	6c. Social Implications of Food and Agricultural Technologies	October 30, 2025
AERC	A1661	6d. Rural Economic Development	September 11, 2025
AERC	A1651	6e. Environmental and Natural Resource Economics Crosscutting	September 11, 2025
Crosscutting	A1402	7a. Agricultural Microbiomes in Plant Systems and Natural Resources	October 2, 2025
Crosscutting	A1701	7b. Critical Agricultural Research and Extension (CARE)	September 11, 2025
Crosscutting	A1541	7c. Data Science for Food and Agricultural Systems (DSFAS) Crosscutting	November 13, 2025
Crosscutting	A1261	7d. Inter-Disciplinary Engagement in Animal Systems (IDEAS)	October 2, 2025
Crosscutting	A1181	7e. Agricultural Biosecurity Crosscutting	September 18, 2025
Crosscutting	A1721	7f. Regional Partnerships for Extension & Education	September 4, 2025
Crosscutting	A1811	7g. AFRI Commodity Board Co-funding Topics	TBA

Crosscutting	A1712	7h. Rapid Response to Extreme Weather Events Across Food and Agricultural Systems	Accepted on a continuous basis after this RFA is published
Crosscutting	A1741	7i. Reducing Food Loss and Waste across the Supply Chain	July 17, 2025

Link to Additional Information: <https://www.nifa.usda.gov/grants/funding-opportunities/agriculture-food-research-initiative-foundational-applied-science>

5. Collaborations in Artificial Intelligence and Geosciences (CAIG), NSF

Application Deadline: April 2, 2025

Anticipated Funding Amount: between \$6,000,000 to \$10,000,000 for 5 to 9 awards

The Collaborations in Artificial Intelligence and Geosciences (CAIG) program supports projects that advance AI techniques and/or innovative uses of sophisticated AI methods to enable significant breakthroughs in addressing geoscience research question (s). It is a partnership between GEO's Division of Research, Innovation, Synergies, and Education (GEO/RISE), CISE's Division of Information and Intelligent Systems (CISE/IIS) and Office of Advanced Cyberinfrastructure (CISE/OAC), and MPS's Division of Mathematical Sciences (MPS/DMS).

The priority goals for the CAIG solicitation are to:

1. Promote partnership between geoscientists and experts in mathematical sciences or computer science to address cutting-edge research that pushes the boundaries of the geosciences and AI.
2. Enable significant breakthroughs in geosciences research question(s) through advancement in AI techniques and/or innovative uses of sophisticated AI methods to overcome geoscience research challenge(s) or bottleneck(s).
3. Build workforce capacity for using advanced AI methods in the geosciences through educational and broadening participation activities.

Specific Requirements:

In addition to responding to one or more of the Major Priorities described above, proposals submitted to this solicitation must address all three of the following Specific Requirements.

- **Geosciences Advancement:** Proposals must explicitly identify motivating science drivers and address how the proposed activities will advance geosciences research and/or education in response to these drivers. Projects should demonstrate the potential to improve understanding of the Earth system with AI approaches and/or to lower barriers for using these approaches by others in the geosciences.
- **AI Impact:** Proposals must describe the novel integration of AI methods, including any development of new methods, and justify how proposed activities overcome significant methodological and/or capacity bottlenecks that inhibit research progress in the geosciences.
- **Partnerships:** Proposed projects should consist of interdisciplinary teams of 2-3 lead collaborating Senior/Key Personnel and associated students, postdoctoral researchers, research software engineers, and/or similar staff (see Section III, Award Information). Project teams should constitute meaningful partnerships between geoscientists and experts in AI, mathematics, statistics, computer science, and/or cyberinfrastructure. Proposals should identify planned mechanisms for developing these partnerships, how partnerships will support the intended Geosciences Advancement and AI Impact, and how the partnerships will benefit all project participants, including pathways for cross-training students and other researchers in the methods to be pursued.

Proposers are strongly encouraged to contact program director(s) from the list of Cognizant Program Officers, in the Division(s)/Office(s) associated with the scientific discipline(s) for which the proposed AI developments would be

applicable, to ascertain the appropriate focus and scope of intended proposal submissions.

Link to Additional Information: <https://new.nsf.gov/funding/opportunities/caig-collaborations-artificial-intelligence-geosciences/nsf25-530/solicitation>

6. Cybersecurity Innovation for Cyberinfrastructure (CICI), NSF

Application Deadline: April 2, 2025

Anticipated Funding Amount: range from \$8,000,000 to \$12,000,000 or 12 to 20 awards

Cyberinfrastructure (CI) plays a key role in modern scientific exploration and discovery. CI has become an integral enabler of research across disciplines as the amount of computationally accessible scientific data grows exponentially. Secure and robust scientific infrastructure is thus vital for multiple stakeholders. Operators wish to protect their infrastructure from misuse, ensure high availability, and avoid liability. Policy makers seek to promote science and FAIR (Findable, Accessible, Interoperable, and Reusable) principles while ensuring that sensitive research data (e.g., personally identifiable information or intellectual property), cannot be ex-filtrated or abused. The research community and public must maintain their confidence in the integrity and authenticity of the entire research process; this necessitates transparency and reproducibility along every step of the computational workflow(s) to ensure rigorous science and trust in the results. Further, the growing use of AI systems as part of the scientific process amplifies both the speed at which scientific data is analyzed and the importance of data integrity, provenance, and authenticity. Domain scientists require performant and available cyberinfrastructure. However, end-users of open scientific infrastructure may consider security processes valuable only insofar as they do not slow or otherwise impede their research. Ensuring the usability of security mechanisms is therefore critical to their adoption and use within the scientific community.

The objective of the Cybersecurity Innovation for Cyberinfrastructure (CICI) program is to develop, integrate, and transition cybersecurity, privacy, and usability solutions that benefit cyberinfrastructure and the wider scientific community.

This solicitation seeks research to make scientific data, workflows, and infrastructure more secure and robust while explicitly considering usability, the nature of modern scientific collaboration, data sharing, reproducibility, and the use of AI as part of the scientific process. Applied research proposals should lead to new understandings of scientific infrastructure security properties, secure scientific workflows and benefit domain scientists, transition novel cybersecurity techniques to research cyberinfrastructure, discover vulnerabilities in existing infrastructure, create new pathways for ensuring reproducibility through cybersecurity, or gather meta-data critical to advancing the security of science infrastructure.

CICI comprises four Program Areas outlined below:

1. **Usable and Collaborative Security for Science (UCSS):** This program area seeks security and usability research that facilitates scientific collaboration, encourages the adoption of security into the scientific workflow, and/or fosters a holistic, integrated security environment that spans the entire scientific CI ecosystem.
2. **Reference Scientific Security Datasets (RSSD):** This area seeks to gather meta-data from operational or otherwise representative CI that can serve as an open community resource for advancing the cybersecurity posture of these systems. Research of interest in this area includes but is not limited to: instrumenting CI to gather comprehensive and high-fidelity measurements, developing novel methods for collecting, labeling, and curating data from science CI, and methods to share and disseminate security datasets. Efforts toward developing data collection methods and techniques as well as the creation of data artifacts are welcome.
3. **Transition to Cyberinfrastructure Resilience (TCR):** Proposals in this area should seek to improve the robustness of scientific CI through operational or at-scale deployment, test and evaluation of novel cybersecurity research and techniques. Approaches in this area may include, but are not limited to, applied research in, and transition of: scientific workflow integrity, scientific data sharing, usable security, red-teaming, program analysis,

fuzzing, penetration testing, and hardening existing systems and components. As the scale of datasets used in scientific CI increase and the location of the data becomes more diffused, NSF especially encourages the adoption of information centric approaches that support the use of nearby secure dataset caching rather than having to retrieve data directly from a repository. The TCR area further encourages transition activities that advance the deployment and use of reproducibility in CI, workflows, and data.

4. **Integrity, Provenance, and Authenticity for Artificial Intelligence Ready Data (IPAAI):** The IPAAI area encourages proposals that help ensure the integrity, provenance, and authenticity of dataset and/or communication and/or computation used by scientific AI systems. By increasing the integrity, provenance, and authenticity of the input to AI systems, the confidence in the resulting output is also increased. Proposals in this area should seek to improve the integrity, provenance, and authenticity of scientific CI through novel cybersecurity research and techniques. Proposals that help provide verifiable indicators of integrity, provenance, and authenticity are welcome.

All CICI proposals are encouraged to:

- Document explicit partnerships or collaborations with one or more domain scientists, research groups, or information technology (IT) support organizations. Partnership documentation from personnel not included in the proposal as PI, co-PI, or senior personnel should be in the form of a letter of collaboration included in the Supplementary Documents section of the proposal.
- Explain the threat model upon which the proposed solution is predicated. For reference on a threat model for Open Science, please refer to the Open Science Risk Profile (OSRP).
- Make any software developed under proposed activities publicly available under an open-source license;
- Provide a plan for gathering quantitative metrics to assess the anticipated security benefits on CI from the proposed work, e.g., science projects or researchers impacted, harms mitigated, etc; and
- Describe how the proposed work has potential for benefits beyond the lifetime of the award and will benefit groups beyond the proposers themselves.

Link to Additional Information: <https://new.nsf.gov/funding/opportunities/cici-cybersecurity-innovation-cyberinfrastructure/nsf25-531/solicitation>

7. Materials Research Science and Engineering Centers (MRSEC), NSF

Application Deadlines:

- **Preliminary Proposal (required):** June 23, 2025
- **Full Proposal:** November 24, 2025

Anticipated Funding Amount: range from \$3 million per year for a 2-IRG to a maximum of \$4.5 million/year for a 3-IRG

The MRSEC program demonstrates NSF's commitment to excellence in research and education; it complements, but does not substitute for, NSF support for individual investigators, small groups, national user facilities, and instrumentation in materials research; and it is national in scope, encouraging coordination of the overall effort among Centers.

A MRSEC may encompass two to three interdisciplinary research groups (IRGs). Each IRG involves typically on the order of 6-12 faculty members addressing a major topic or area, in which sustained support for the interactive effort by the several participants of complementary backgrounds, skills, and knowledge is critical to progress. The IRGs in a Center may be thematically related, or they may address different aspects of materials research typically supported by DMR. The MRSEC in its entirety is holistic, its rationale conditioned on the connection of all its parts, with synergy arising from common infrastructure, shared facilities, education and outreach activities, and other Center-spanning initiatives.

MRSECs incorporate the following activities to an extent commensurate with the size and vision of the Center:

- Academic-institution-based materials research of the highest quality: each IRG must have a well-integrated research program distinguished by intellectual excellence and driven by a clear vision that could lead to fundamental advances, new discoveries, and/or technological developments of national and international significance. Each IRG must show clear benefits of a multi-investigator, interdisciplinary, and collaborative approach to address a major materials topic or area and must delineate the linkages between researchers within the IRG.
- Seed funding: NSF intends to provide flexibility for the Center to respond quickly and effectively to new opportunities and pursue high-risk/high-impact and transformative research. These may include (but are not limited to): seed support for faculty to further add or broaden existing efforts; emerging areas of interdisciplinary research; programs to link the university effort in materials with industry, national laboratories, and other sectors; the development of tools and cyber infrastructure for remote access to instrumentation; and innovative interdisciplinary educational and broadening participation ventures.
- Promotion of the integration of research and education, and development of effective education/outreach activities that are consistent with the Center size, leverage participant expertise and interest, and address local and national needs.
- A MRSEC should pursue activities with proven impacts in improving scientific education. It may also experiment with novel approaches as appropriate.
- Broadening participation in materials research and education: MRSECs encourage input and participation from the full spectrum of diverse talent that society has to offer which includes underrepresented and underserved communities. Centers are strongly encouraged to develop cooperative programs with organization(s) serving predominantly underrepresented groups in science and engineering and/or predominantly undergraduate institutions.
- Development of shared experimental and computational facilities, properly staffed, equipped and maintained, and accessible to users from the Center, the broader university community, and other organizations. A MRSEC program goal is to maintain the long-term health of the materials research infrastructure in the United States and each MRSEC is expected to contribute to the national network of materials research facilities.
- Promotion of partnerships by supporting a Center's active cooperation with industry and international organizations, and other sectors, such as national laboratories, non-profit organizations, and state and local governments, in order to stimulate and facilitate knowledge transfer among the participants and strengthen the links between university-based research and its application.

A MRSEC may address any area of research supported by the NSF Division of Materials Research which include 8 programs (known as Topical Materials Research Programs, TMRP): Biomaterials (BMAT), Ceramics (CER), Condensed Matter Physics (CMP), Condensed Matter and Materials Theory (CMMT), Electronic and Photonic Materials (EPM), Metals and Metallic Nanostructures (MMN), Polymers (POL), and Solid State and Materials Chemistry (SSMC).

In addition to research excellence, MRSECs provide the infrastructure of equipment, education, and outreach needed to ensure that the program as a whole meets its objectives and provides for effective coordination within and beyond the Center community. Centers are required to contribute to the network addressing common problems and applications. Center shared experimental and computational facilities constitute the Materials Research Facility Network, a network of facilities that helps to maintain and advance materials research infrastructure in the United States.

Link to Additional Information: <https://new.nsf.gov/funding/opportunities/mrsec-materials-research-science-engineering-centers/nsf25-532/solicitation>

8. Partnership to Advance Conservation Science and Practice (PACSP), NSF

Application Deadline: March 17, 2025

Anticipated Funding Amount: \$16,000,000 for 8 to 16 awards

The Partnership to Advance Conservation Science and Practice (PACSP) program focuses on urgent biodiversity conservation problems and research that will make significant and impactful progress in advancing conservation science and practice. The program aims to fund integrative and transdisciplinary research, and projects must span both basic and applied conservation research endeavors. It supports partnerships between scientists and conservation practitioners to implement science-based conservation action plans and to engage in ongoing assessment that informs both conservation efficacy and the science on which those plans are based.

Proposals submitted to the PACSP program can be in any area of basic research on organismal biology (e.g., physiological, behavioral, immunological, and developmental responses to a changing environment), ecology (e.g., dynamics of small populations, responses to changing community composition, including symbiotic interactions, or ecosystem-level function) or evolution (e.g., effects of low genetic diversity, selection and the consequences of maladapted phenotypes) that contributes to the development or implementation of science-based conservation plans. Similarly, proposals may focus on individual species, groups of species, communities, or ecosystems. Critically, the basic research component must be focused on a biodiversity conservation need in the U.S. or associated territories. Examples could include but are not limited to: testing hypotheses about the mechanism(s) causing a biodiversity conservation problem; exploring how organismal, ecological, or evolutionary processes relate to urgent conservation needs; understanding how environmental variation, emerging diseases, or changing environments influence organismal responses and hence biodiversity conservation.

The program aims to support projects that integrate three components:

- 1) basic research questions motivated by an urgent biodiversity conservation need
- 2) the development and implementation of science-informed conservation actions specifically related to the biodiversity conservation need
- 3) a plan for on-going evaluation or assessment of the success of the conservation action to inform both the science and efficacy of the conservation action.

PACSP Partner Interests:

- **National Science Foundation:** All proposals submitted to the U.S. National Science Foundation must include discussion of the broader impacts of the project for societal benefit. In addition to the conservation impacts, the PACSP program encourages broader impacts that increase the recruitment, training, and retention of individuals or groups underrepresented in conservation science and practice. The PACSP program will prioritize broader impacts that develop, enhance, or strengthen relationships between basic conservation researchers, conservation practitioners, and the human communities involved. We encourage submissions from EPSCoR states.
- **Paul G. Allen Family Foundation:** The foundation supports a global portfolio of partners working to preserve ocean health, protect wildlife, combat climate change, and strengthen communities. The foundation invests in grantees to leverage technology, fill data and science gaps, and support public policy to enable lasting change.

The foundation is interested in PACSP proposals that develop or implement science and data-informed conservation actions. Conservation plans should directly relate to the basic research question addressed by PACSP proposals and should be evidence-based. Successful PACSP proposals will develop conservation actions by merging basic research outcomes with current best practices in biodiversity conservation and through integrated partnerships between academic researchers and conservation practitioners. Proposals to the PACSP program will also include a plan for the on-going assessment or evaluation of the proposed conservation actions. A goal of the program is to guide the development of successful partnerships that contribute to positive biodiversity conservation outcomes. A plan to formally evaluate or assess any proposed conservation actions is required and should be rooted in current best practices.

Special Information:

- A. **Proposals Involving Fieldwork:** Any proposed fieldwork must occur within the United States or associated territories except for integral components of work such as in the case where distributions of focal taxa extend beyond U.S. borders or where focal taxa migrate to locations outside the U.S.
- B. **Collection and Transfer of Samples:** Plans to collect and transfer biological samples should be approved by the appropriate government authorities. Arrangements for the use of traditional knowledge or the collection of samples from the lands and waters of local peoples should be based upon full disclosure and informed consent of those communities and individuals.
- C. **Federal Government Policy Considerations of Fieldwork:** Federal agencies must comply with the National Environmental Policy Act (NEPA) and other applicable laws and policies such as the Endangered Species Act, the Marine Mammal Protection Act, and the National Historic Preservation Act (see PAPPG II.D.2.i.iv).

Link to Additional Information: <https://new.nsf.gov/funding/opportunities/pacsp-partnership-advance-conservation-science-practice/nsf25-524/solicitation#cont>

Forecasted Opportunities

1. **NCI Continuing Umbrella of Research Experiences (CURE) Academic Career Excellence (ACE) Award (K32 - Independent Clinical Trial Required) and (K32 - Independent Clinical Trial Required Not Allowed), NIH**

The Center to Reduce Cancer Health Disparities (CRCHD) at NCI is planning to issue two new Notice of Funding Opportunity announcements (NOFO), the NCI Continuing Umbrella of Research Experiences (CURE) Academic Career Excellence (ACE) Award (K32), which will be published in two versions: Independent Clinical Trial Required and Independent Clinical Trial Not Allowed. The CURE ACE Award will support research training for early postdoctoral fellows in cancer research. The funding program aims to enhance the pool of qualified individuals for careers that have a significant impact on the health-related research needs of the Nation and enrich the scientific cancer research experience of trainees as they transition from pre-doctoral to post-doctoral training. The NCI CURE Academic Career Excellence (ACE) funding program supports early post-doctoral fellows from diverse backgrounds, including individuals from underrepresented backgrounds (NOT-OD-20-031) who bring life experiences, geographic location, socioeconomic status, academic training, professional experience, disability status, military service, career stage, institutional affiliation, cultural background, and other factors that may contribute to unique perspectives to the research workforce, and who are committed to a career in basic biomedical, clinical, behavioral or Translational cancer research, including research on cancer health disparities.

Link to Additional Information: <https://www.grants.gov/search-results-detail/357909>

2. **Humanities Research Centers on Artificial Intelligence, NEH**

The purpose of this program is to support the establishment of new collaborative humanities research centers focused on the legal, ethical, or societal implications of developing AI technologies. A Center is a sustained collaboration among multiple scholars focused on exploring the humanities implications of AI through two or more related scholarly activities.

Link to Additional Information: <https://www.grants.gov/search-results-detail/357951>

Proposals Accepted Anytime

1. Division of Environmental Biology, NSF
<https://new.nsf.gov/funding/opportunities/division-environmental-biology-deb/nsf24-543/solicitation>
2. Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences, NSF
<https://beta.nsf.gov/funding/opportunities/computational-and-data-enabled-science-and-engineering-mathematical-and>
3. Condensed Matter and Materials Theory (CMMT), NSF
https://www.nsf.gov/pubs/2022/nsf22610/nsf22610.htm#pgm_desc_txt
4. Division of Materials Research: Topical Materials Research Programs (DMR: TMRP), NSF
<https://www.nsf.gov/pubs/2022/nsf22609/nsf22609.htm>
5. Research in the Formation of Engineers, NSF
<https://beta.nsf.gov/funding/opportunities/research-formation-engineers-rfe>
6. Computer and Information Science and Engineering (CISE): Core Programs, NSF – Small Projects
<https://www.nsf.gov/pubs/2022/nsf22631/nsf22631.htm>
7. Manufacturing Systems Integration (MSI), NSF
<https://beta.nsf.gov/funding/opportunities/manufacturing-systems-integration-msi>
8. Cybersecurity Innovation for Cyberinfrastructure (CICI), NSF
<https://www.nsf.gov/pubs/2023/nsf23532/nsf23532.htm>
9. Division of Molecular and Cellular Biosciences Core Programs (MCB), NSF
<https://new.nsf.gov/funding/opportunities/division-molecular-cellular-biosciences-core/nsf24-539/solicitation>
10. Division of Integrative Organismal Systems Core Programs, NSF
<https://www.nsf.gov/pubs/2023/nsf23547/nsf23547.htm>
11. Electronics, Photonics and Magnetic Devices (EPMD), NSF
<https://beta.nsf.gov/funding/opportunities/electronics-photonics-magnetic-devices-epmd-0>
12. Plant Genome Research Program (PGRP), NSF
<https://www.nsf.gov/pubs/2023/nsf23559/nsf23559.htm#elig>
13. Communications, Circuits, and Sensing-Systems (CCSS), NSF
<https://beta.nsf.gov/funding/opportunities/communications-circuits-sensing-systems-ccss-0>
14. Fluid Dynamics, NSF
<https://beta.nsf.gov/funding/opportunities/fluid-dynamics-2>
15. Biophotonics, NSF
<https://beta.nsf.gov/funding/opportunities/biophotonics-2>
16. Environmental Sustainability, NSF
<https://beta.nsf.gov/funding/opportunities/environmental-sustainability-2>
17. Particulate and Multiphase Processes, NSF
<https://beta.nsf.gov/funding/opportunities/particulate-multiphase-processes-2>

18. Interfacial Engineering, NSF
<https://beta.nsf.gov/funding/opportunities/interfacial-engineering-0>
19. Nanoscale Interactions, NSF
<https://beta.nsf.gov/funding/opportunities/nanoscale-interactions-0>
20. Combustion and Fire Systems (CFS), NSF
<https://new.nsf.gov/funding/opportunities/combustion-fire-systems-cfs>
21. Infrastructure Innovation for Biological Research (Innovation), NSF
<https://www.nsf.gov/pubs/2023/nsf23578/nsf23578.htm>
22. Infrastructure Capacity for Biological Research (Capacity), NSF
<https://www.nsf.gov/pubs/2023/nsf23580/nsf23580.htm>
23. Energy, Power, Control, and Networks (EPCN), NSF
<https://new.nsf.gov/funding/opportunities/energy-power-control-networks-epcn-0>
24. Engineering of Biomedical Systems, NSF
<https://new.nsf.gov/funding/opportunities/engineering-biomedical-systems-0>
25. Catalysis, NSF
<https://new.nsf.gov/funding/opportunities/catalysis-2>
26. Process Systems, Reaction Engineering, and Molecular Thermodynamics, NSF
<https://new.nsf.gov/funding/opportunities/process-systems-reaction-engineering-molecular-2>
27. Disability and Rehabilitation Engineering (DARE), NSF
<https://new.nsf.gov/funding/opportunities/disability-rehabilitation-engineering-dare-2>
28. Cellular and Biochemical Engineering, NSF
<https://new.nsf.gov/funding/opportunities/cellular-biochemical-engineering-0>
29. Facility and Instrumentation Request Process (FIRP), NSF
<https://www.nsf.gov/pubs/2023/nsf23602/nsf23602.htm>
30. Research Infrastructure in the Social and Behavioral Sciences (RISBS), NSF
<https://new.nsf.gov/funding/opportunities/research-infrastructure-social-behavioral-sciences>
31. Secure and Trustworthy Cyberspace (SaTC), NSF
<https://www.nsf.gov/pubs/2024/nsf24504/nsf24504.htm>
32. Mind, Machine and Motor Nexus (M3X), NSF
<https://new.nsf.gov/funding/opportunities/mind-machine-motor-nexus-m3x>
33. Cyberinfrastructure for Public Access and Open Science, NSF
<https://new.nsf.gov/funding/opportunities/cyberinfrastructure-public-access-open-science-ci>
34. Multilateral Partnerships Leveraging Excellence (MultiPLEx), NSF
<https://new.nsf.gov/funding/opportunities/multiplex-multilateral-partnerships-leveraging-excellence>

35. Life and Environments Through Time (LET), NSF
<https://new.nsf.gov/funding/opportunities/let-life-environments-through-time/nsf25-517/solicitation>

Announcing Previous Important Funding Opportunities

1. Translation Project Fellowships, NEA
Deadline: January 16, 2025
<https://www.arts.gov/grants/translation-project-fellowships>
2. NIDCD Early Career Research (ECR) Award (R21 Clinical Trial Optional), NIH
Submission Window Date(s): January 19, 2025 – February 19, 2025
<https://grants.nih.gov/grants/guide/pa-files/PA-25-120.html>
3. Fulbright-Hays Group Projects Abroad Program, Dept. of Education
Deadline: January 21, 2025
<https://www.govinfo.gov/content/pkg/FR-2024-10-25/pdf/2024-24900.pdf>
4. Behavioral Health Workforce Education and Training Program for Professionals, HRSA
Deadline: January 21, 2025
<https://www.grants.gov/search-results-detail/355772>
5. Graduate Psychology Education Program (GPE), HRSA
Deadline: January 21, 2025
<https://www.grants.gov/search-results-detail/355771>
6. Development of Biomarkers or Composite Biomarkers for Neurological and Neuromuscular Disorders (R61/R33 - Clinical Trial Optional), NIH
Deadline: January 21, 2025 (LOI): February 21, 2025 (FP)
<https://grants.nih.gov/grants/guide/pa-files/PA-25-024.html>
7. Addressing Systems Challenges through Engineering Teams, NSF
Deadline: January 22, 2025
<https://new.nsf.gov/funding/opportunities/ascent-addressing-systems-challenges-through-engineering-teams>
8. Ethical and Responsible Research (ER2), NSF
Deadline: January 23, 2025
<https://new.nsf.gov/funding/opportunities/er2-ethical-responsible-research/nsf24-604/solicitation>
9. Build and Broaden: Enhancing Social, Behavioral and Economic Science Research and Capacity at Minority-Serving Institutions (B2), NSF
Deadline: January 23, 2025
https://new.nsf.gov/funding/opportunities/b2-build-broaden-enhancing-social-behavioral-economic-science/505864/nsf25-505/solicitation?WT_mc_id=USNSF_25&WT_mc_ev=
10. Organismal Response to Climate Change (ORCC), NSF
Deadline: January 23, 2025
<https://new.nsf.gov/funding/opportunities/orcc-organismal-response-climate-change/nsf25-504/solicitation#elig>
11. Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grant (Parent T32), NIH
Deadline: January 25, 2025
<https://grants.nih.gov/grants/guide/pa-files/PA-25-168.html>

12. Centers of Excellence in Maternal and Child Health Education, Science, and Practice, HRSA
Deadline: January 27, 2025
<https://www.grants.gov/search-results-detail/355638>
13. Focus on Recruiting Emerging Climate and Adaptation Scientists and Transformers, NSF
Deadline: January 29, 2025 (Track 1); April 30, 2025 (Track 2)
<https://new.nsf.gov/funding/opportunities/focus-recruiting-emerging-climate-adaptation/nsf24-558/solicitation>
14. Research Experiences and/or Mentoring Networks through Research Education to Enhance Clinician-Scientists' Participation in NIDCD's Research (R25 Clinical Trial Not Allowed), NIH
Deadline: January 29, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-25-020.html>
15. Building Synthetic Microbial Communities for Biology, Mitigating Climate Change, Sustainability and Biotechnology (Synthetic Communities), NSF
Deadline: February 3, 2025
<https://new.nsf.gov/funding/opportunities/synthetic-communities-building-synthetic-microbial-communities-biology-mitigating/nsf25-501/solicitation>
16. Human-Environment and Geographical Sciences Program (HEGS), NSF
Deadline: February 3, 2025
<https://new.nsf.gov/funding/opportunities/hegs-human-environment-geographical-sciences-program/nsf25-507/solicitation>
17. Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP) Partnership Grants, Dept. of Education
Deadline: February 3, 2025
<https://www.govinfo.gov/content/pkg/FR-2024-11-20/pdf/2024-27054.pdf>
18. Research With Activities Related to Diversity (ReWARD) (R01 Clinical Trial Optional), NIH
Deadline: February 5, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-25-117.html>
19. Focused Technology Research and Development (R01 Clinical Trial Not Allowed), NIH
Deadline: February 5, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-25-203.html>
20. Research Opportunities for New and "At-Risk" Investigators to Promote Workforce Diversity (R01 Clinical Trial Optional), NIH
Deadline: February 5, 2025
<https://www.govinfo.gov/content/pkg/FR-2024-11-20/pdf/2024-27054.pdf>
21. Quantum Leap Challenge Institutes, NSF
Deadline: February 7, 2025 (LOI-required); March 7, 2025 (Preliminary Proposal-required); September 17, 2025 (FP – by invitation)
<https://new.nsf.gov/funding/opportunities/quantum-leap-challenge-institutes-qlci/nsf24-599/solicitation>
22. A Science of Science Approach to Analyzing and Innovating the Biomedical Research Enterprise (SoS:Bio), NSF
Deadline: February 9, 2025
<https://new.nsf.gov/funding/opportunities/sosbio-science-science-approach-analyzing-innovating-biomedical/nsf23-569/solicitation>

23. NIDA Research Education Program for Clinical Researchers and Clinicians (R25 Clinical Trial Not Allowed), NIH
Deadline: February 10, 2025 (LOI); March 11, 2025 (FP)
<https://grants.nih.gov/grants/guide/pa-files/PAR-25-204.html>
24. Landmarks of American History and Culture, NEH
Deadline: February 12, 2025 (FP)
<https://www.neh.gov/grants/education/landmarks/highered>
25. NIDCR Mentored Career Development Award to Promote Broad Participation in Research (K01 Independent Clinical Trial Not Allowed), NIH
Deadline: February 12, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-25-022.html>
26. Institutes for Higher Education Faculty and Institutes for K-12 Educators, NEH
Deadline: February 12, 2025
<https://www.neh.gov/grants/education/institutes-higher-education-faculty>
<https://www.neh.gov/grants/education/institutes-k-12-educators>
27. NCI Continuing Umbrella of Research Experiences (CURE) Mentored Clinical Scientist Research Career Development Award (K08 Clinical Trial Not Allowed), NIH
Deadline: February 12, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-24-320.html>
28. Advancing Research Careers (ARC) Predoctoral to Postdoctoral Transition Award to Promote Broad Participation (F99/K00 - Clinical Trial Not Allowed), NIH
Deadline: February 13, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-25-084.html>
29. Institutes for Advanced Topics in the Digital Humanities, NEH
Deadline: February 13, 2025
<https://www.neh.gov/grants/odh/institutes-advanced-topics-in-the-digital-humanities>
30. Geosciences Open Science Ecosystem (GEO OSE), NSF
Deadline: February 14, 2025 (Track 1); November 14, 2025 (Track 2)
<https://new.nsf.gov/funding/opportunities/geo-ose-geosciences-open-science-ecosystem/nsf25-506/solicitation>
31. Summer Research Education Experience Program (R25 Clinical Trial Not Allowed), NIH
Deadline: February 15, 2025 (LOI); March 18, 2025 (FP)
<https://grants.nih.gov/grants/guide/pa-files/PAR-24-204.html>
32. Imaging - Science Track Award for Research Transition (I/START) (R03 Clinical Trial Optional), NIH
Deadline: February 16, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-24-297.html>
33. NCMRR Early Career Research Award (R03 Clinical Trial Optional), NIH
Deadline: February 16, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-23-029.html>
34. Technology Development Research for Establishing Feasibility and Proof of Concept (R21 - Clinical Trial Not Allowed), NIH
Deadline: February 16, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-25-202.html>

35. Environmental Health Sciences Core Centers Program (P30 Clinical Trials Optional), NIH
Deadline: February 17, 2025 (LOI); March 18, 2025 (FP)
<https://grants.nih.gov/grants/guide/rfa-files/RFA-ES-25-002.html>
36. Biomedical Research Environment & Sponsored Programs Administration Development (BRE-SPAD) Program (UC2- Clinical Trial Not Allowed), NIH
Deadline: February 19, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-24-268.html>
37. Experiential Learning for Emerging and Novel Technologies (ExLENT), NSF
Deadline: February 24, 2025
<https://new.nsf.gov/funding/opportunities/exlent-experiential-learning-emerging-novel-technologies/nsf25-511/solicitation>
38. Research Enhancement Award Program (REAP) for Health Professional Schools and Graduate Schools (R15 Clinical Trial Not Allowed), NIH
Deadline: February 25, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-25-298.html>
39. Academic Research Enhancement Award (AREA) for Undergraduate-Focused Institutions (R15 Clinical Trial Required), NIH
Deadline: February 25, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-25-148.html>
40. Discovery Research PreK-12 Program Resource Center on Transformative Education Research and Translation (DRK-12 RC), NSF
Deadline: February 28, 2025
https://new.nsf.gov/funding/opportunities/drk-12-rc-discovery-research-prek-12-program-resource-center/nsf24-602/solicitation?WT_mc_id=USNSF_25&WT_mc_ev=click
41. Emerging Mathematics in Biology (eMB), NSF
Deadline: March 3, 2025
<https://new.nsf.gov/funding/opportunities/emb-emerging-mathematics-biology/nsf25-509/solicitation>
42. Boosting Research Ideas for Transformative and Equitable Advances in Engineering (BRITE), NSF
Deadline: March 3, 2025
<https://new.nsf.gov/funding/opportunities/brite-nsf-boosting-research-ideas-transformative-equitable/nsf25-512/solicitation>
43. Scholarships in Science, Technology, Engineering, and Mathematics Program (S-STEM), NSF
Deadline: March 4, 2025
<https://new.nsf.gov/funding/opportunities/s-stem-nsf-scholarships-science-technology-engineering-mathematics/nsf25-514/solicitation>
44. Coupling, Energetics, and Dynamics of Atmospheric Regions (CEDAR), NSF
Deadline: March 5, 2025
<https://new.nsf.gov/funding/opportunities/cedar-coupling-energetics-dynamics-atmospheric-regions/nsf25-510/solicitation>

45. Science, Technology, Engineering and Mathematics (STEM), Office of Naval Research
Deadline: April 4, 2025
<https://www.nre.navy.mil/work-with-us/funding-opportunities/onr-science-technology-engineering-and-mathematics-stem-program>
46. Fellowships, NEH
Deadline: April 9, 2025
<https://www.neh.gov/grants/research/fellowships>
47. Cyber-Physical Systems (CPS), NSF
Submission Window Date(s): June 01, 2024 - May 31, 2025 (Small & Medium)
<https://new.nsf.gov/funding/opportunities/cyber-physical-systems-cps/nsf24-581/solicitation>
48. Shared Instrumentation Grant (SIG) Program (S10 Clinical Trial Not Allowed), NIH
Deadline: June 2, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-24-265.html>
49. High-End Instrumentation (HEI) Grant Program (S10 Clinical Trial Not Allowed), NIH
Deadline: June 2, 2025
<https://grants.nih.gov/grants/guide/pa-files/PAR-24-264.html>
50. Research and Development (RAD) Directed Energy (RD) University Assistance Instruments, Dept. of the Air Force, Air Force Research Lab
Deadline: until July 18, 2029 (Mandatory LOI); by invitation only (FP)
<https://www.grants.gov/search-results-detail/355499>
51. Computer and Information Science and Engineering (CISE): Core Programs, Large Projects, NSF
Submission Window Date(s): September 15, 2025 - September 29, 2025
<https://new.nsf.gov/funding/opportunities/computer-information-science-engineering-core-0/nsf24-572/solicitation#elig>
52. Accelerating Computing-Enabled Scientific Discovery (ACED), NSF
Deadline: September 17, 2025
<https://new.nsf.gov/funding/opportunities/aced-aced-accelerating-computing-enabled-scientific-discovery/nsf24-541/solicitation>
53. Security, Privacy, and Trust in Cyberspace (SaTC 2.0), NSF
Deadline: September 29, 2025
<https://new.nsf.gov/funding/opportunities/satc-20-security-privacy-trust-cyberspace/nsf25-515/solicitation>



Universidad *de Puerto Rico*

LA MEJOR EDUCACIÓN A TU ALCANCE

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