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## Research, Funding News

**Emerging technologies star in White House R&D priorities:** The Biden administration has outlined three main research priorities for fiscal year 2025 in the [memorandum](#): *promoting responsible artificial intelligence, utilizing emerging technologies for national security efforts, and transitioning the U.S. economy to a low-carbon model.* The administration urges federal agencies to incorporate these priorities into their upcoming budget requests, encompassing areas such as trustworthy AI, national security tech, climate solutions, improved healthcare systems, reduced social inequities, and enhanced competitiveness in innovative tech research.

### Grant Opportunity Alerts:

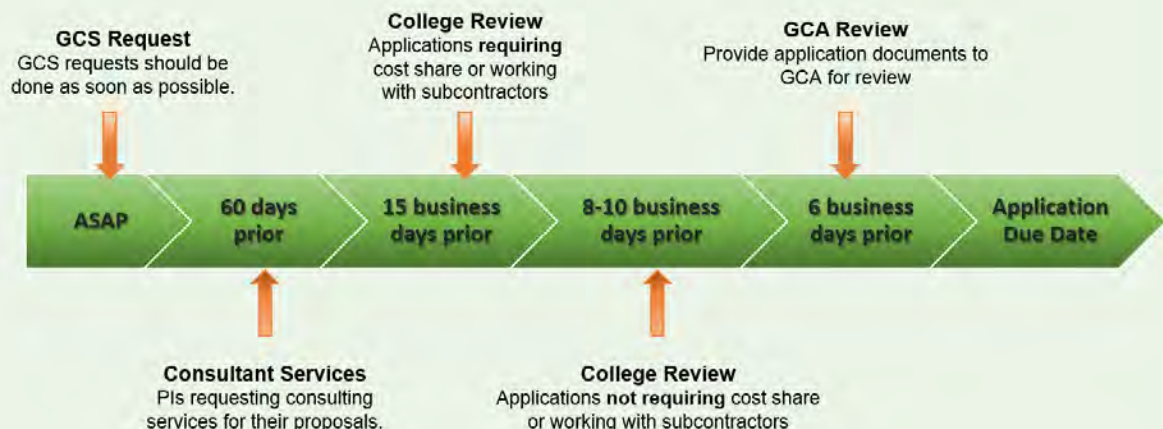
NSF released the 2nd India Collaborative Research Opportunity NSF-MeitY.

DOD both Dept of the Army and Dept of Navy HBCU/MI Research Programs are open for application.

Internal application for ORAU 2024 Ralph E. Powe Junior Faculty Enhancement Awards is due on October 13, 2023.

**NIH Data Management and Sharing (DMS) Costs Update:** Effective for applications submitted for due dates on or after October 5, 2023, NIH will no longer require the use of the single DMS cost line item. Instead, applicants will be required to provide estimated DMS cost details within the 'Budget Justification'.

## Grant Application Process



# Recent Research Grant and Contract Awards

Congratulations to faculty on receiving research grant and contract awards!

**PI:** Hector Siller  
**Department:** Mechanical Engineering  
**Project Title:** ACE PROVIDER  
**Sponsor:** Texas A&M Engineering Experiment Station  
**Project Period:** 06/01/2023 - 08/31/2024  
**Award:** \$70,000

**PI:** Cheng Yu  
**Department:** Mechanical Engineering  
**Project Title:** Behavior and Performance of INNO Cold-Formed Steel Long Span Roof Trusses  
**Sponsor:** Mechanical Engineering  
**Project Period:** 5/01/2023 – 8/31/2023  
**Award:** \$16,264

**PI:** Tsz Yan Clement Chan  
**Department:** Biomedical Engineering  
**Project Title:** Genetic Biocontainment Switch to Improve the Safety of Drug Detoxifying Bacteria in Preventing  
**Sponsor:** Sanarentero LLC (NIH)  
**Project Period:** 04/01/2023 – 03/31/2024  
**Award:** \$117,000

**PI:** Marcus Young  
**Department:** Materials Science & Engineering  
**Project Title:** Lightweight and Low Stow Volume Solar Concentrator for Lunar Based InSitu Resource Utilization  
**Sponsor:** L'Garde, Inc. (NASA)  
**Project Period:** 05/01/2023 – 10/31/2023  
**Award:** \$40,000

**PI:** Nigel Shepherd  
**Department:** Materials Science & Engineering  
**Project Title:** Direct-Write Ceramics and Metals for Electronic Applications  
**Sponsor:** Kratos SRE, Inc.(ARL)  
**Project Period:** 06/20/2023 – 09/30/2024  
**Award:** \$75,000

**PI:** Zihao Zhang  
**Department:** Mechanical Engineering  
**Co-PI:** Jeffrey Kelber  
**Department:** Chemistry (COS)  
**Project Title:** Tunable Plasmonic Multispectral Meta surfaces  
**Sponsor:** U.S. Department of Defense  
**Project Period:** 06/01/2023 – 05/31/2027  
**Award:** \$799,999

**PI:** Diana Berman  
**Co-PI:** Andrey Voevodin  
**Department:** Materials Science & Engineering  
**Project Title:** Tribological testing of materials for seals  
**Sponsor:** Pratt & Whitney  
**Project Period:** 03/24/2023 – 03/23/2024  
**Award:** \$80,000

**PI:** Yuede Ji  
**Departments:** Computer Science & Engineering  
**Project Title:** CICI: UCSS: Secure Containers in High-Performance Computing Infrastructure  
**Sponsor:** National Science Foundation  
**Project Period:** 08/01/2023 - 07/31/2026  
**Award:** \$600,000

**PI:** Rajiv Mishra  
**Department:** Materials Science & Engineering  
**Co-PIs:** Ravi Haridas, Hector Siller  
**Department:** Mechanical Engineering  
**Project Title:** Solid-state Integrated Manufacturing Process for Lunar Environment (SIMPLE)  
**Sponsor:** National Institute of Aerospace  
**Project Period:** 02/01/2023 – 06/30/2023  
**Award:** \$82,800

# FUNDING OPPORTUNITIES

## National Science Foundation

[Special Guidelines for Submitting Collaborative Proposals under U.S. National Science Foundation \(NSF\) and the Ministry of Electronics and Information Technology \(MeitY\) of India Collaborative Research Opportunities](#)

Solicitation ID: DCL NSF 23-139

Webinar Q&A: September 8, 2023 9:30 - 10:30 am

Full proposal due: January 05, 2024

[Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science \(INCLUDES\)](#)

Anticipated Funding: \$5.5M each year;

Number of Award: 1 award in Network Connectors, 5 awards in Alliances;

Solicitation ID: NSF 22-622

Full proposal due: October 24 2023 Network Connectors and Alliances

[Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science \(SCH\)](#)

Anticipated Funding: \$15M –20M;

Number of Award: 10 to 16 awards; \$300K per year, up to four years;

Solicitation ID: NSF 23-614

NIH [Webinar](#) on Smart and Connected Health

Full proposal due: November 09, 2023

[Division of Materials Research: Topical Materials Research Programs \(DMR:TMRP\)](#)

Anticipated Funding: \$66M;

Number of Award: 250 awards;

Solicitation ID: NSF 23-612

Full proposal accepted anytime (avoid April 15th to June 15th)

[Partnerships for Innovation \(PFI\)](#)

Anticipated Funding: \$30M;

Number of Award: 25-55 awards;

Solicitation ID: NSF 23-538

Full proposal due: September 05, 2023, January 02,

[\(Limited\) National Science Foundation Research Traineeship \(NRT\) Program](#)

Anticipated Funding: \$55M;

Number of Awards: 18 to 20 awards;

Limit: 2 proposals per organization;

Solicitation ID: NSF 21-536

Full proposal due: September 06, 2023

[Experiential Learning for Emerging and Novel Technologies \(ExLENT\)](#)

Anticipated Funding: \$30M; Up to \$1M for each award;

Number of Awards: 25 to 35 awards;

Solicitation ID: NSF 23-507

Full proposal due: September 14, 2023

[Research Experiences for Undergraduates \(REU\)](#)

Anticipated Funding: \$84.8M;

Number of Awards: 1,300 to 1,350 (175 new Site awards and 1,150 new Supplement awards)

Solicitation ID: NSF 23-601

Full proposal due: September 27, 2023

[\(Limited\) National Artificial Intelligence \(AI\) Research Institutes: Accelerating Research, Transforming Society, and Growing the American Workforce](#)

Anticipated Funding: \$100M;

Number of Award: 5 awards; \$16-20M for each award;

Solicitation ID: NSF 23-610

Pre-proposal due: October 31, 2023 for Group 1; January 12, 2024 for Group 2;

Full proposal due: Group 1 - February 16, 2024 ; Group 2 - May 17, 2024

[NSF Boosting Research Ideas for Transformative and Equitable Advances in Engineering \(BRITE\)](#)

Anticipated Funding: \$10M;

Number of Award: 20 awards; \$100k-200k per year during a three-year period;

Solicitation ID: NSF 23-592

Full proposal due: September 28, 2023

# FUNDING OPPORTUNITIES

## [Computer and Information Science and Engineering \(CISE\): Core Programs](#)

Anticipated Funding: \$280M; Small \$600k, Medium \$1.2M, OAC Core \$600k;

Number of Awards: 400 - 600 awards;

Solicitation ID: NSF 23-561

Full proposal due: Small projects accepted anytime; October 23, 2023 for Medium and OAC projects

## [\(Limited\) Centers of Research Excellence in Science and Technology \(CREST Centers\)](#)

Limit: one preliminary proposal per eligible institution

Anticipated Funding: \$8M;

Number of Award: 5 awards; \$1.5M per year/\$7.5M during a five-year period;

Solicitation ID: NSF 23-595

Pre-proposal due: December 01, 2023

Full proposal due: December 06, 2024

## [Advanced Manufacturing \(AM\)](#)

Investigators are encouraged to discuss their ideas with AM program directors well in advance of submission at [AdvancedManufacturing@nsf.gov](mailto:AdvancedManufacturing@nsf.gov).

Solicitation ID: NSF PD 19-088Y

Full proposal accepted anytime

## [Engineering of Biomedical Systems](#)

Solicitation ID: NSF PD 23-5345

Full proposal accepted anytime

## [Division of Materials Research: Condensed Matter and Materials Theory \(DMR:CMMT\)](#)

Anticipated Funding: \$15M;

Number of Award: 40 awards;

Solicitation ID: NSF 23-611

Full proposal accepted anytime (avoid April 15th to June 15th)

## National Institute of Health

### [Development of Software for Data Science in Infectious and Immune-Mediated Diseases Research \(U01 Clinical Trial Not Allowed\)](#)

Solicitation ID: RFA-AI-23-038

LOI due: September 11, 2023

Full proposal due: October 11, 2023

### [NIH Maximizing Investigators' Research Award \(MIRA\) for Early Stage Investigators \(ESI\) \(R35 - Clinical Trial Optional\)](#)

Solicitation ID: PAR-23-145

Eligibility: PI must have completed their degree or training within the past 10 years and not have won a substantial NIH independent research award before.

Award: Up to \$250,000 direct costs per year, a maximum project period of five years.

Application due: October 03, 2023

### [Academic-Industrial Partnerships \(AIP\) to Translate and Validate In Vivo Imaging Systems \(R01 Clinical Trial Optional\)](#)

To stimulate translation of scientific discoveries and engineering developments in imaging, data science and/or spectroscopic technologies into methods or tools that address contemporary problems in understanding the fundamental biology, potential risk of development, diagnosis, or treatment of cancer.

Solicitation ID: PAR-23-259

Application due: October 05, 2023

## ORAU

### [2024 Ralph E. Powe Junior Faculty Enhancement Awards](#)

Eligibility: Full-time assistant professors within two years of their tenure track appointment at the time of application are eligible.

Award: \$5,000 from ORAU. Vice President of Research will match with \$5,000. This is a one-year grant (June 1 to May 31).

Internal deadline: October 13, 2023

Agency deadline: January 08, 2024

Number of Limited Submissions allowed: 2

All internal applications will be submitted through InfoReady Limited Submission site ([Link](#))



# FUNDING OPPORTUNITIES

## Dept. of Defense

### [Synthetic Quantum Nanostructures \(SynQuaNon\)](#)

Solicitation ID: HR001123S0050

Abstract due: August 25, 2023

Full Proposal due: October 10, 2023

### [Fiscal Year 2024 Department of the Navy \(DoN\) Historically Black Colleges and Universities/Minority Institutions \(HBCU/MI\) Program Alerts](#)

Solicitation ID: N00014-23-S-F007

Letter of Intent: September 08, 2023

Invited Proposal due: December 15, 2023

### [DoD Research and Education Program for Historically Black Colleges and Universities and Minority-Serving Institutions \(HBCU/MI\) Research Fiscal Year 2024](#)

Solicitation ID: W911NF23S0015

Letter of Intent: Please contact the program director.

Full Proposal due: October 30, 2023

### [Adversarial Resilient Cyber Effects for Decision Dominance Collaborative Research Program](#)

Solicitation ID: W911NF-23-S-0016

Full Proposal due: October 13, 2023

### [Science and Technology for Advanced Manufacturing Projects \(STAMP\)](#)

Solicitation ID: N00014-23-S-B003

Closing Date: January 16, 2024

### [Office of Naval Research \(ONR\) Science, Technology, Engineering and Mathematic \(STEM\) Program](#)

Solicitation ID: N00014-23-S-F005

Closing Date: April 02, 2024

### [Broad Agency Announcement \(BAA\) for Extramural Biomedical Research and Development](#)

Solicitation ID: HT9425-23-S-SOC1

BAA is open until 31 July, 2028

## Dept. of Energy

### [Small Business Innovation Research Program \(SBIR\) and Small Business Technology Transfer \(STTR\) FY 2024 Phase I Release 1](#)

Letter of Intent due: August 28, 2023

Full Application due: October 10, 2023

### [Fiscal Year 2024 Distinguished Early Career Program](#)

Solicitation ID: DE-FOA-0003043

Full Application due: September 7, 2023

### [Bipartisan Infrastructure Law \(BIL\) - Advanced Processing of Critical Minerals and Materials for Industrial and Manufacturing Applications](#)

Solicitation ID: DE-FOA-0002619

Two topics: 1. Advanced Process Development for Production of Rare Earth Metals and Co-Production of Critical Minerals and Materials from Coal-Based Resources; and 2. Production of Critical Minerals and Materials Excluding Materials Containing Rare Earth Elements from Coal-Based Resources.

Full Application due: October 20, 2023

### [Bipartisan Infrastructure Law: Silicon Solar Manufacturing, and Dual-use Photovoltaics Incubator](#)

Solicitation ID: DE-FOA-0003057

Concept Paper due: September 27, 2023

Full Application due: November 14, 2023

### [Office of Science Graduate Student Research \(SCGR\) Awards](#)

The SCGRS program provides supplemental awards to outstanding U.S. graduate students to conduct part of their graduate thesis research at a DOE national laboratory or facility in collaboration with a DOE laboratory scientist — with the goal of preparing graduate students for scientific and technical careers critically important to the DOE Office of Science mission.

Application assistance workshops: September 14, 2023, and October 10, 2023

Full Proposal due: November 08, 2023

# CONFERENCE, WORKSHOP & MORE

## UNT

[New Investigator Academy](#)

Thursday, September 7 & 13, 2023

8:30am to 1:00pm

Location: Gateway 43 & Gateway 47

[RSVP](#) to Event Sep 7, 2023

[RSVP](#) to Event Sep 13, 2023

[Research BREAK - Grant Management 101](#)

Wednesday, September 27, 2023 12:00 pm

<https://unt.zoom.us/j/89891761238>

[RSVP](#) to Event

## NSF

NSF-MeitY Call for Proposals Webinar and Q&A for U.S.-India Collaborative Research ([DCL NSF 23-139](#))

September 08, 2023 | 9:30 -10:30 am

Register in advance for this webinar: [Link](#)

NSF Research Traineeship Program (NRT) Webinar

August 30, 2023, 1:00 – 2:00 p.m. [Link](#)

# FUNDING SEARCH ENGINES

Federal Grants World

<https://grants.gov>

PIVOT– Funding Opportunity Database

<https://pivot.proquest.com>

Fed biz opps– Federal Business Opportunities

<https://www.sam.gov>

NIH funding programs

<https://grants.nih.gov/funding/searchguide/index.html#/>