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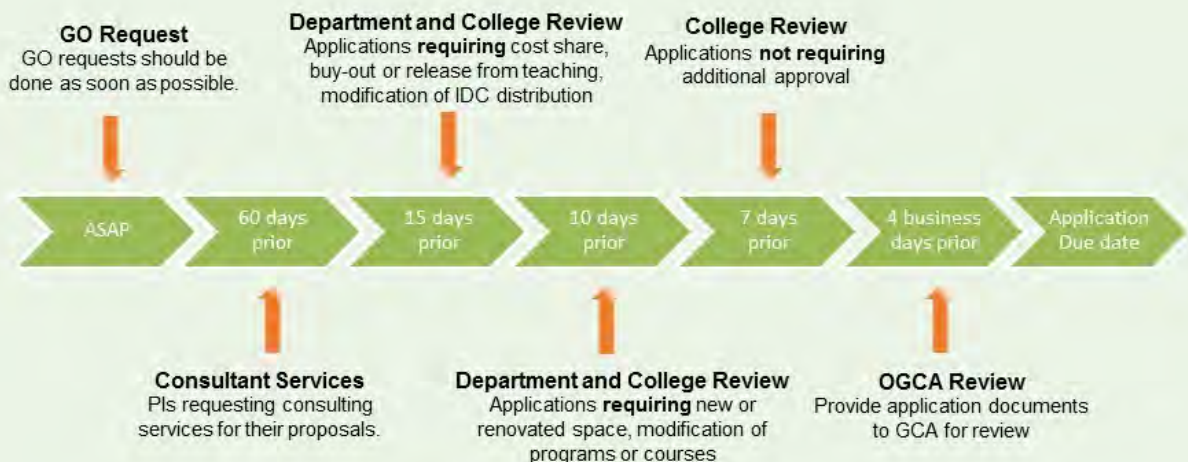
Research, Funding News

[NIH-Wide Strategic Plan for COVID-19 Research Now Available](#): This Strategic plan provides a framework describing how NIH is accelerating the development of therapeutic interventions, vaccines, and diagnostics in response to the SARS-CoV-2 global pandemic. It outlines five cross-cutting strategies. [More](#)

NSF Releases INCLUDES Special Report: NSF has issued a “[special report to the nation](#)” to provide updates on its Inclusion Across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science, or INCLUDES, program. As one of the NSF’s 10 Big Ideas, INCLUDES seeks to develop new strategies to broaden the participation of underrepresented groups in science, technology, engineering and mathematics. The report provides highlights on developing alliance networks and includes lessons learned about increasing broadening participation efforts.

[DOE Issues RFI on Energy Storage Needs](#): DOE released the Energy Storage Grand Challenge (ESGC) Draft Roadmap which provided planned activities for five tracks and a Request for Information seeking stakeholder input. The Draft Roadmap outlines a Department-wide strategy to accelerate innovation across a range of storage technologies based on three concepts: Innovate Here, Make Here, Deploy Everywhere. The deadline for responses to this RFI is August 31, 2020.

Grant Application Process



Recent Research Grant and Contract Awards

Congratulations to faculty on receiving research grant and contract awards!

PI: *Hua Sun*

Department: Electrical Engineering

Project Title: Collaborative Research: CIF: Small: Communication, Storage, Complexity, and Security: A Holistic View on the Fundamental Limits and Code Designs for Private Information Retrieval

Sponsor: National Science Foundation - NSF

Project Period: 10/1/2020 - 9/30/2023

Award: \$218,259.00

PI: *Diana Berman*

Department: Materials Science & Engineering

Project Title: Mechanically Driven Growth of Hydrocarbons at Sliding Interfaces to Control Degradation and Wear

Sponsor: National Science Foundation - NSF

Project Period: 7/15/2020 - 6/30/2023

Award: \$289,847.00

PI: *Hui Zhao*

Department: Computer Science & Engineering

Project Title: Collaborative Research: SHF: Small: Tangram: Scaling into the Exascale Era with Reconfigurable Aggregated

Sponsor: National Science Foundation - NSF

Project Period: 7/15/2020 - 6/30/2023

Award: \$172,573.00

PI: *Sundeep Mukherjee*

Co-PI: Zhenhai Xia

Department: Materials Science & Engineering

Project Title: Supplement GOALI: Friction Stir Joining of Bulk Metallic Glasses and Their Composites

Sponsor: National Science Foundation - NSF

Project Period: 7/13/2020 - 6/30/2021

Award: \$70,000.00

PI: *Qing Yang*

Co-PI: Song Fu

Department: Computer Science & Engineering

Project Title: CyberTraining: Implementation: Small: Collaborative and Integrated Training on Connected and Autonomous Vehicles Cyber-infrastructure

Sponsor: National Science Foundation - NSF

Project Period: 8/1/2020 - 7/31/2023

Award: \$499,438.00

PI: *Mark Albert*

Department: Computer Science & Engineering and Biomedical Engineering

Project Title: Technologies to Evaluate and Advance Manipulation and Mobility (TEAMM)-RERC

Sponsor: Shirley Ryan AbilityLab

Project Period: 9/30/2019 - 9/29/2020

Award: \$19,468.00

PI: *Eduardo Blanco Villar*

Department: Computer Science & Engineering

Project Title: Building Cybersecurity Analytics Capacity in Big Data Era: Developing Hands-on Labs for Integrating Data Science into Cybersecurity Curriculum

Sponsor: Georgia State University (NSF)

Project Period: 7/1/2020 - 6/30/2021

Award: \$63,542.00

PI: *Diana Berman*

Co-PIs: Samir Aouadi, Andrey Voevodin

Department: Materials Science & Engineering

Project Title: Materials for Internal Combustion Engines

Sponsor: Army Research Office - ARO

Project Period: 7/27/2020 - 7/26/2022

Award: \$780,003.00

Recent Research Grant and Contract Awards

Congratulations to faculty on receiving research grant and contract awards!

PI: *Rajiv Mishra*

Co-PIs: Srinivasan Srivilliputhur, Sundeep Mukherjee, Marcus Young, Thomas Scharf, Nigel Shepherd, Richard Reidy

Department: Materials Science & Engineering

Co-PI: Yijie Jiang

Department: Mechanical & Energy Engineering

Project Title: Technical Proposal for Advanced Ballistics Technology: A Mechanisms-based Approach to Designing Materials Systems for Enhanced Dynamic Performance

Sponsor: US Army Research Laboratory - ARL

Project Period: 7/15/2020 - 7/14/2021

Award: \$3,250,000.00

PI: *Huseyin Bostanci*

Department: Engineering Technology

Project Title: Microgravity Vortex Phase Separator for Liquid Amine CO₂ Removal System

Sponsor: National Aeronautics & Space Administration - NASA

Project Period: 8/1/2020 - 7/31/2022

Award: \$70,188.00

PI: *Huseyin Bostanci*

Department: Engineering Technology

Project Title: Thermal Radiator For CO₂ Deposition In Deep Space Transit

Sponsor: National Space Grant Foundation

Project Period: 8/1/2020 - 5/31/2021

Award: \$49,994.00

PI: *Yan Huang*

Co-PI: Qing Yang

Department: Computer Science & Engineering

Project Title: Export Controlled at Award - Title removed

Sponsor: KRI at Northeastern, LLC.

Project Period: 6/8/2020 - 12/31/2020

Award: \$199,617.00

PI: *Sundeep Mukherjee*

Department: Materials Science & Engineering

Project Title: Supplement PFI-TT: Next Generation Fuel Cell Catalysts for Efficient Energy Conversion

Sponsor: National Science Foundation - NSF

Project Period: 7/27/2020 - 7/31/2021

Award: \$55,000.00

PI: *Sundeep Mukherjee*

Department: Materials Science & Engineering

Project Title: Supplement PFI-TT: Next Generation Fuel Cell Catalysts for Efficient Energy Conversion

Sponsor: National Science Foundation - NSF

Project Period: 7/29/2020 - 1/31/2022

Award: \$55,000.00

PI: *Vijay Vaidyanathan*

Department: Biomedical Engineering

Co-PI: Marcus Young

Department: Materials Science & Engineering

Project Title: Novel Surface-Modified Bioresorbable Zinc-Based Stent Materials

Sponsor: Stony Brook University

Project Period: 03/03/2020 - 5/31/2021

Award: \$31,436.00

PI: *Rajarshi Banerjee*

Department: Materials Science & Engineering

Project Title: Advanced Kinetic Evolution of Oxidation Resistant Structures through Additive Manufacturing

Sponsor: MRL Materials Resources, LLC

Project Period: 03/05/2020 - 12/07/2020

Award: \$45,000.00

FUNDING OPPORTUNITIES

National Science Foundation

[Division of Materials Research: Topical Materials Research Programs: Ceramics \(CER\), Electronic and Photonic Materials \(EPM\), Solid State and Materials Chemistry \(SSMC\) \(DMR-TMRP CER, EPM, SSMC\)](#)

Anticipated Funding: \$28M;
Number of Awards: 110;
Solicitation ID: NSF 20-588
Proposals Accepted Anytime

[Division of Materials Research: Topical Materials Research Programs: Biomaterials \(BMAT\), Condensed Matter Physics \(CMP\), Metals and Metallic Nanostructures \(MMN\), Polymers \(POL\) \(DMR-TMRP BMAT, CMP, MMN, POL\)](#)

Anticipated Funding: \$38M;
Number of Awards: 150;
Solicitation ID: NSF 20-589
Full proposal due: Nov 02, 2020

[Dear Colleague Letter: Sentinel Cells for Surveillance and Response to Emergent Infectious Diseases \(Sentinels\)](#)

Highlight the interest of existing programs in the Directorate for Biological Sciences (BIO) and the Directorate for Engineering (ENG) in interdisciplinary research for the development of novel biological platforms that are capable of sensing and responding to emerging infectious agents.

Proposals are reviewed as they are received, without deadline.

[Research Experiences for Teachers \(RET\) in Engineering and Computer Science](#)

Anticipated Funding: \$5.8M;
Number of Awards: 9;
Solicitation ID: NSF 20-584
Full proposal due: Sep 30, 2020

[Advanced Technological Education \(ATE\)](#)

Solicitation ID: NSF 18-571
Full proposal due: Oct 01, 2020

[Cyberinfrastructure for Sustained Scientific Innovation \(CSSI\)](#)

Two Classes: Elements \$600K, 3 years;
Framework Implementations: \$600K-\$5M, 3-5 years.
Anticipated Funding: \$33M;
Number of Awards: 35;
Solicitation ID: NSF 20-592
Full proposal due: Oct 28, 2020

[PFE: Research Initiation in Engineering Formation \(PFE: RIEF\)](#)

Anticipated Funding: \$200k for 24 months; 15 awards;
Solicitation ID: NSF 20-558
Full proposal due: Nov 10, 2020

[Cyber-Physical Systems \(CPS\)](#)

Solicitation ID: NSF 20-563
Full proposal due: Frontier Dec 02, 2020;

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

Anticipated Funding: \$2M - \$3M;
Number of Awards: 1-3;
Solicitation ID: NSF 20-569
LOI due: Oct 05, 2020
Full proposal due: Jan 26, 2021

[Re-entry to Active Research Program \(RARE\)](#)

Anticipated Funding: \$2.4M; Track 1: \$150K per year;
Track 2: \$300K.
Number of Awards: 3-4 per division per year.
Solicitation ID: NSF 20-586
Proposals Accepted Anytime

FUNDING OPPORTUNITIES

[Plant Biotic Interactions](#)

Anticipated Funding: \$18.5M (\$10.5M from NSF, \$8M from USDA)

Number of Awards: 25-30 per year.

Solicitation ID: NSF 20-576

Proposals Accepted Anytime

National Institute of Health

[Emergency Awards: Rapid Investigation of Severe Acute Respiratory Syndrome Coronavirus 2 \(SARS-CoV-2\) and Coronavirus Disease 2019 \(COVID-19\) \(R01 Clinical Trial Not Allowed\)](#)

FOA: PAR-20-178

Applications will be accepted on a rolling basis, handled on an expedited review and award basis to meet the goals of this program.

Award: \$275K, two years.

Expiration date: Aug 14, 2020

[Using Information Technology to Support Systematic Screening and Treatment of Depression in Oncology Practices \(R01 Clinical Trial Optional\)](#)

FOA: PA-18-493

Application due: Standard dates (Oct 05, 2020).

[Using Information Technology to Support Systematic Screening and Treatment of Depression in Oncology Practices \(R21 Clinical Trial Optional\)](#)

FOA: PA-18-492

Award: \$275K, two years.

Application due: Standard dates (Oct 16, 2020).

[Mechanistic Studies of the Interaction between SARS-CoV-2/COVID-19 and Diseases and Organ Systems of Interest to NIDDK \(R01 Clinical Trial Optional\)](#)

FOA: RFA-DK-20-021

Award: \$750K, three years. FY2021 11-13 awards.

LOI due: Nov 16, 2020

Application due: Dec 16, 2020

[PHS 2020-2 Omnibus Solicitation of the NIH, CDC, and FDA for Small Business Innovation Research Grant Applications \(Parent SBIR \[R43/R44\] Clinical Trial Required\)](#)

FOA: PA-20-262

Award: Phase I: \$256K; Phase II \$1.7M.

Application due: Sep 08, 2020, Jan 05, 2021 and Apr 05, 2021

Department of Defense

[DARPA: Verified Security and Performance Enhancement of Large Legacy Software \(V-SPELLS\)](#)

Solicitation ID: HR001120S0058

The program is divided into four Technical Areas (TAs):

1. Automated, iterative interactive program understanding
 2. Compositional DSL programming, component specification inference
 3. Verified layer flattening and distribution
 4. Demonstration and Evaluation
- Closing date: Sep 09, 2020

[C4ISR, Information Operations, Cyberspace Operations and Information Technology System Research](#)

Solicitation ID: N66001-20-S-4702

Closing date: Jun 03, 2021

Department of Energy

[National Defense Education Program \(NDEP\) Request for Information for the Office of the Under Secretary of Defense \(Research & Engineering\)](#)

RFI-WHS-07222020

Closing date: Aug 28, 2020

Department of Transportation

[Advanced Transportation and Congestion Management Technologies Deployment Initiative](#)

Solicitation ID: 693JJ320NF00010

Application due: Aug 31, 2020

FUNDING OPPORTUNITIES

USDA

[Agriculture and Food Research Initiative - Foundational and Applied Science Program](#)

Solicitation: USDA-NIFA-AFRI-007692

Anticipated Funding: \$290M;

Closing date: Jul 29, 2021

FULBRIGHT

[Fulbright Scholar Program \(Traditional\) - Grants for U.S. Faculty and Professionals](#)

Eligibility: U.S. citizen

Application due: Sep 15, 2020

Sony Electronic Inc.

[Research Award Program - Focused Research Award](#)

Provides an opportunity for university faculty and Sony to conduct collaborative, focused research.

Award: Up to \$150,000

Application due: Sep 15, 2020

[Research Award Program - Faculty Innovation Awards](#)

Provides funds to conduct pioneering research in the areas of Information Technology; Devices and Materials; and Biomedical and Life Science.

Award: Up to \$100,000

Application due: Sep 15, 2020

CONFERENCE, WORKSHOP & MORE

UNT

Building the Research Enterprise and
Knowledge Sessions (BREAKS)

BI-Weekly Zoom Discussions in August:

1. [Pre Award Basics Part. 2](#)

Thu, 08/06/2020 - 4:00 - 5:00pm

2. [Contracting with Industry](#)

Thu, 08/20/2020 - 4:00 - 5:00pm

NIH

The Fall 2020 Seminar in Nashville, TN has been cancelled. NIH has begun making plans for a [virtual seminar](#) during the week of October 26-30, free-of-charge for the extramural research community.

FUNDING SEARCH ENGINES

Federal Grants World

<https://grants.gov>

PIVOT– 26,000 Funding Opportunity Database

<https://pivot.proquest.com>

Fed biz opps– Federal Business Opportunities

<https://www.fbo.gov>

Nine Sigma—Open Innovations Community

www.ninesigma.com