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

- GO Request: GO requests should be done as soon as possible.
- Department and College Review: Applications requiring cost share, buy-out or release from teaching, modification of IDC distribution.
- College Review: Applications not requiring additional approval.
- Consultant Services: PIs requesting consulting services for their proposals.
- Department and College Review: Applications requiring new or renovated space, modification of programs or courses.
- OGCA Review: Provide application documents to OGCA for review.

https://engineering.unt.edu/research-services
Recent Research Grant and Contract Awards

Congratulations to faculty on receiving research grant and contract awards!

**PI: Hua Sun**
*Department: Electrical Engineering*
*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: **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: **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: **Vijay Vaidyanathan**  
**Department:** Biomedical Engineering  
Co-PI: Marcus Young  
**Department:** Materials Science & Engineering  
**Project Title:** Novel Surface-Modified Biodegradable 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

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
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)**
Solicitation ID: 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.

**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

**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: 693J320NF00010
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