RESEARCH SERVICES

COLLEGE OF ENGINEERING

UNT

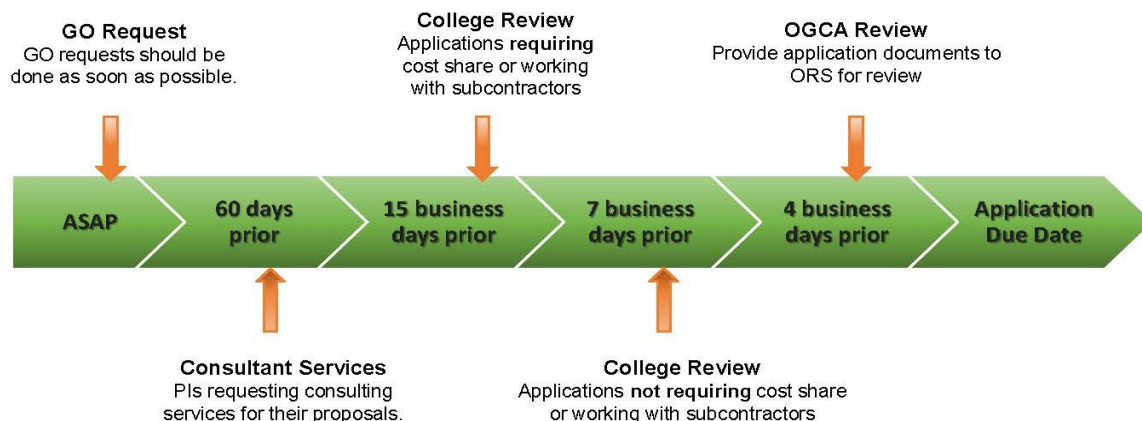**EST. 1890**

August 2018

Research, Funding News

NSF Announces a Core Program within the Division of Computing and Communication Foundations: The Directorate for Computer and Information Science and Engineering (CISE) is notifying members of the research community about the addition of a core program, called Foundations of Emerging Technologies (FET), within its Division of Computing and Communication Foundations (CCF). The FET core program joins the existing three core programs within CCF: Algorithmic Foundations (AF), Communications and Information Foundations (CIF), and Software Hardware Foundations (SHF).

NSF CMMI consolidates advanced manufacturing programs: Effective August 15, 2018, the Manufacturing Machines and Equipment, Materials Engineering and Processing, Nanomanufacturing and Cybermanufacturing programs will no longer be accepting new proposals.

Revision of CISE Research Infrastructure (CRI) Program: CISE is in the process of revising the CRI program to focus exclusively on infrastructure that engages emerging communities of CISE researchers in order to move CISE research frontiers forward. NSF anticipates the new solicitation by early Fall 2018.

The science committee of the House of Representatives approved National Quantum Initiative Act: The bipartisan bill would establish a White House body to coordinate policy and plans, and authorize the Department of Energy (DOE), the National Institute of Standards and Technology (NIST), and the National Science Foundation (NSF)—to together spend $1.275 billion from 2019 to 2023 on quantum research.

Pre-Award Timeline and Process

GO Request
GO requests should be done as soon as possible.

College Review
Applications **requiring** cost share or working with subcontractors

OGCA Review
Provide application documents to ORS for review

| ASAP | 60 days prior | 15 business days prior | 7 business days prior | 4 business days prior | Application Due Date |

Consultant Services
PIs requesting consulting services for their proposals.

College Review
Applications **not requiring** cost share or working with subcontractors

https://engineering.unt.edu/faculty/research-services

Recent Research Grant and Contract Awards

Congratulations to faculty on receiving research grant and contract awards!

PI: *Kameswara Rao Namuduri*
Department: Electrical Engineering
Project Title: UNT Flight Test Activities Related to the NASA UAS UTM Project
Sponsor: Texas AM University - Corpus Christi
Project Period: 3/1/2018 - 8/31/2018
Award: $16,651.00

PI: *Yan Huang*
Co-PI: Qing Yang
Department: Computer Science & Engineering
Co-PI: Xiangnan Zhong
Department: Electrical Engineering
Project Title: Export Controlled at Award
Sponsor: KRI at Northeastern, LLC.
Project Period: 3/30/2018 - 10/29/2019
Award: $300,000.00

PI: *Song Fu*
Department: Computer Science & Engineering
Project Title: Characterizing Flash Storage Failures (SSD, NVMeor Trinity Burst-buffer node/BBN)
Sponsor: Los Alamos National Laboratory
Project Period: 5/29/2018 - 12/31/2018
Award: $40,000.00

PI: *Tao Yang*
Department: Electrical Engineering
Project Title: A Distributed Coordination Paradigm for Reliable and Resilient Microgrid Operations
Sponsor: Oak Ridge Associated Universities
Project Period: 6/1/2018 - 5/31/2019
Award: $5,000.00

PI: *Kuruvilla John*
Department: Mechanical & Energy Engineering
Project Title: Air Quality Monitoring for Ozone in Corpus Christi
Sponsor: Port Industries of Corpus Christi
Project Period: 6/1/2018 - 12/31/2018
Award: $47,000.00

PI: *Rajiv Mishra*
Department: Materials Science & Engineering
Project Title: Enhanced Lower Cost Tooling for Friction Stir Technologies
Sponsor: QuesTek Innovations LLC
Project Period: 6/4/2018 - 12/4/2019
Award: $50,000.00

PI: *Hassan Takabi*
Department: Computer Science & Engineering
Project Title: NSF Student Travel Grant for 2018 ACM Conference on Computer and Communications Security (ACM CCS)
Sponsor: National Science Foundation - NSF
Project Period: 7/1/2018 - 12/31/2018
Award: $25,000.00

PI: *Wonbong Choi*
Department: Materials Science & Engineering, Mechanical & Energy Engineering
Project Title: Integrated Flexible Energy System based on Two-Dimensional (2D) Materials
Sponsor: Asian Office of Aerospace Research and Development
Project Period: 7/2/2018 - 7/1/2021
Award: $300,000.00

Recent Research Grant and Contract Awards

Congratulations to faculty on receiving research grant and contract awards!

PI: *Hassan Takabi*
Co-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: National Science Foundation - NSF
Project Period: 7/15/2018 - 6/30/2021
Current Budget Allocation: $499,581.00

PI: *Sundeep Mukherjee*
Co-PI: Zhenhai Xia
Department: Materials Science & Engineering
Project Title: GOALI: Friction Stir Joining of Bulk Metallic Glasses and Their Composites
Sponsor: National Science Foundation - NSF
Project Period: 7/15/2018 - 6/30/2021
Award: $469,296.00

FUNDING OPPORTUNITIES

National Science Foundation

(Limited) Enabling Quantum Leap: Convergent Accelerated Discovery Foundries for Quantum Materials Science, Engineering and Information (Q-AMASE-i)
Solicitation ID: NSF 18-578
Application due: LOI: Sep 17, 2018; Full proposal: Nov 05, 2018

Computing and Communication Foundations (CCF): Core Programs
Solicitation ID: NSF 18-568
Application due: Medium: Oct 02, 2018; Small: Nov 15, 2018

Computer and Network Systems (CNS): Core Programs
Solicitation ID: NSF 18-569
Application due: Large and Medium: Oct 02, 2018; Small: Nov 15, 2018

Information and Intelligent Systems (IIS): Core Programs
Solicitation ID: NSF 18-570
Application due: Large and Medium: Oct 02, 2018; Small: Nov 15, 2018

Advanced Technological Education (ATE)
Solicitation ID: NSF 18-571
Application due: Oct 15, 2018

DCL: Planning for New Signals in the Soils (SitS)-Themed NSF Industry/University Cooperative Research Centers (IUCRCs)
Solicitation ID: NSF 18-097
Preliminary proposals due: Oct 17, 2018

DCL:Innovations at the Nexus of Food, Energy, and Water Systems (INFEWS: U.S.-China)
Solicitation ID: NSF 18-096
Application due: Oct 22, 2018

Office of Advanced Cyberinfrastructure (OAC): Research Core Program
Solicitation ID: NSF 18-0567
Application due: Small: Nov 15, 2018

Secure and Trustworthy Cyberspace (SaTC)
Solicitation ID: NSF 18-572
Application due: Full Proposal Accepted Anytime

Innovation Corps - National Innovation Network Teams Program (I-CorpsTM Teams)
Solicitation ID: NSF 18-515
Application due: Full Proposal Accepted Anytime

NSF/FDA Scholar-in-Residence at FDA
Solicitation ID: NSF 18-556
Application due: Full Proposal Accepted Anytime

Biological and Environmental Interactions of Nanoscale Materials
Solicitation ID: PD 19-1179
Application due: Full Proposal Accepted Anytime

Communications, Circuits, and Sensing-Systems (CCSS)
Solicitation ID: PD 18-7564
Application due: Full Proposal Accepted Anytime

Energy, Power, Control, and Networks (EPCN)
Solicitation ID: PD 18-7607
Application due: Full Proposal Accepted Anytime

Molecular Separations
Solicitation ID: PD 19-1417
Application due: Full Proposal Accepted Anytime

FUNDING OPPORTUNITIES

National Science Foundation

Electrochemical Systems
Solicitation ID: PD 18-7644
Application due: October 22, 2018

Biosensing
Solicitation ID: PD 18-7909
Application due: October 22, 2018

Engineering of Biomedical Systems (EBMS)
Solicitation ID: PD 18-5345
Application due: October 22, 2018

Disability and Rehabilitation Engineering (DARE)
Solicitation ID: PD 18-5342
Application due: October 22, 2018

Cellular and Biochemical Engineering
Solicitation ID: PD 18-1491
Application due: October 22, 2018

Fluid Dynamics
Solicitation ID: PD 18-1443
Application due: October 22, 2018

Environmental Engineering
Solicitation ID: PD 18-1440
Application due: October 22, 2018

Environmental Sustainability
Solicitation ID: PD 18-7643
Application due: October 22, 2018

Department of Defense

FY18 Accelerating Innovation in Military Medicine (AIMM) Research Award
Agency: CDMRP W81XWH-18-DMRDP-AIMM
Pre-application due: Sep 19, 2018
Application due: Jan 2, 2019

BROAD AGENCY ANNOUNCEMENT (BAA) for Extramural Biomedical Research and Development
Agency: DOD-AMRAA W81XWH-18-S-SOC1
Application due: Jul 31, 2023

Department of Energy

High Intensity Thermal Exchange through Materials, and Manufacturing Processes (HITEMMP)
Agency: ARPA-E DE-FOA-0001970
Concept paper due: Sep 12, 2018
Full application due: TBD

High Intensity Thermal Exchange through Materials, and Manufacturing Processes (HITEMMP) (SBIR/STTR)
Agency: ARPA-E DE-FOA-0001972
Concept paper due: Sep 12, 2018
Full application due: TBD

Innovative Design Concepts for Standard Modular Hydro-power and Pumped-Storage Hydropower
Agency: DOE-GFO DE-FOA-0001836
FOA Informational Webinar: Topic Areas 1 and 2– Sep 05, 2018 12:30 PM EST; Topic Area 1 Only – Sep 06, 2018 1:00 PM EST
Concept paper due: Sep 28, 2018
Full application due: Nov 30, 2018

FUNDING OPPORTUNITIES - CONTINUED

National Aeronautics and Space Administration

Cassini Data Analysis Program: PDS Cassini Data Release 54
Solicitation ID: NNH18ZDA001N-CDAPR54
Application due: Sep 18, 2018

Advanced Information Systems Technology (AIST-18)
Solicitation ID: NNH18ZDA001N-AIST
Application due: TBD

National Institute of Health

NIH Director's New Innovator Award Program (DP2 - Clinical Trial Optional)
Solicitation ID: RFA-RM-18-008
Application due: Sep 21, 2018

NIH Director's Transformative Research Award (R01 - Clinical Trial Optional)
Solicitation ID: RFA-RM-18-009
Application due: Sep 21, 2018

Investigator Initiated Research in Computational Genomics and Data Science (R01 Clinical Trial Not Allowed)
Solicitation ID: PAR-18-844
Application due: LOI: Oct 16, 2018; Full proposal: Nov 16, 2018

Short-term Mentored Career Enhancement Awards in Mobile and Wireless Health Technology and Data Analytics: Cross-Training at the intersection of Behavioral and Social Sciences and STEM Disciplines (K18 Independent Clinical Trial Not Allowed)
Solicitation ID: PAR-18-881
Application due: Jul 12, 2019

Governor's Summer Merit Program (GSMP)
Solicitation ID: 3201900016
Application due: Sep 25, 2018

Cisco Research Center (CRC)

CRC is interested in exploring issues, topics, and problems that are relevant to our core business of improving the Internet and adjacent technologies that leverage the power of the network to change the world around us:

Research and Academic
1.Production/Presentation Grants: up to $20,000
2. Research/Development Grants: up to $10,000
Application due: Sep 15, 2018

Samsung

The Global Research Outreach (GRO) Program invites the world's leading universities to propose research ideas in emerging fields. We judge ideas on basis of novelty and alignment with Samsung's research direction.

The Global Research Outreach (GRO) Program
Theme 1. Explainable artificial intelligence
Theme 2. Beyond 5G communication systems
Award: up to $120,000 for one year
Web submission open: Now
Application due: TBD

JUNIOR FACULTY AWARDS

National Institute of Health

Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship (Parent F31)
Solicitation ID: PA-18-671
Application due: Standard dates (Apr 8, Aug 8, Dec 8)

NIH Director's Early Independence Award (DP5 - Clinical Trial Optional)
Solicitation ID: RFA-RM-18-010
Application due: LOI: Aug 26, 2018, Full proposal: Sep 27, 2018

DoD Young Investigator Awards

Army Research Office Young Investigator Program
Application due: Proposals may be submitted at any time. Per Broad Agency Announcement (BAA), through 3/31/2022.

ACS Petroleum Research Fund

Doctoral New Investigator (DNI) Grants
Eligibility: the first three years of the first academic appointment at the rank of Assistant Professor
Award: $110,000 over 2 years
Application window: Sep 24 - Oct 19, 2018

GRADUATE STUDENT FUNDING

Graduate Research Fellowship Program (GRFP)
Solicitation ID: NSF 18-573
Eligibility: U.S. citizen, national, or permanent resident
Award: three years of support during a five-year fellowship period. Currently, NSF provides a stipend of $34,000 to the Fellow and a cost-of-education allowance of $12,000 to the graduate degree-granting institution for each Fellow who uses the fellowship support in a fellowship year.
Application due: Oct 22, 2018

WEBINAR, WORKSHOP & EXPO

NSF

Fall 2018 Grants Conference
November 8-9, 2018 New Orleans, LA

NIH

Fall 2018 NIH Regional Seminar
October 17-19, 2018 San Francisco, CA

20th Annual HHS SBIR/STTR Conference
Oct 20 - Nov 1, 2018 Dallas, TX

Spring 2019 NIH Regional Seminar
May 15-17, 2019 Baltimore, MD

DoD

SBIR/STTE Innovation Summit
October 23-25, 2018 Tampa, FL

DoE

Composites and Advanced Materials Expo
Oct 15-18, 2018 Dallas, TX

NIST

2018 NICE Conference and Expo
November 5-9, 2018 Location: TBD

2018 NICE K-12 Cybersecurity Education Conference
December 3-4, 2018 San Antonio, TX

SERDP

SERDP-ESTCP Symposium 2018
November 27– 29, 2018, Washington, D.C.

CyberMaryland Conference 2018
Oct 9-10, 2018 Baltimore, MD

FUNDING SEARCH ENGINES

Federal Grants World
https://grants.gov
PIVOT– 26,000 Funding Opportunity Database
https://pivot.cos.com
Fed biz opps– Federal Business Opportunities
https://www.fbo.gov