RESEARCH SERVICES

COLLEGE OF ENGINEERING
UNT®
EST. 1890

September 2019

Research, Funding News

White House has issued a memorandum directing federal agencies to focus on five research-and-development priorities as they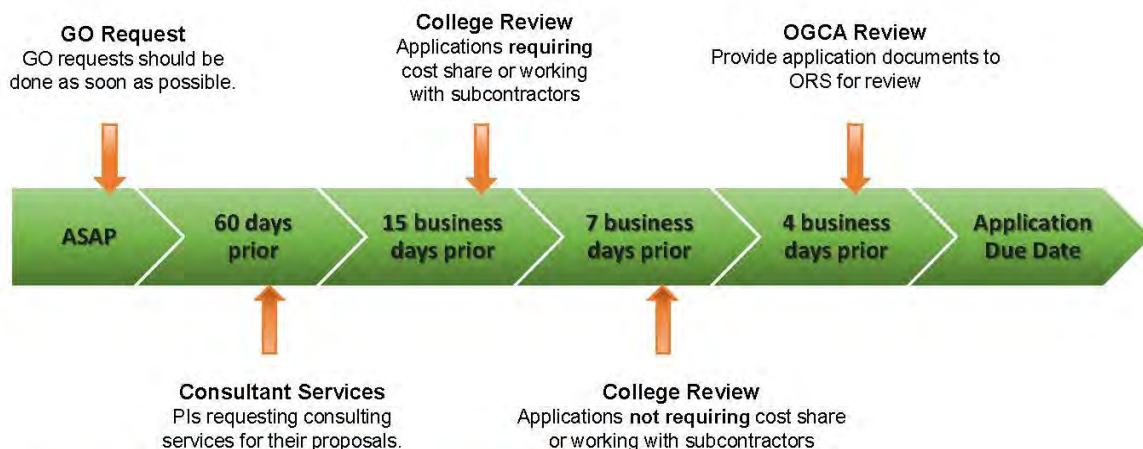 draft their proposed budgets for FY2021 : According to the memo released on Aug 30, 2019, the five R&D priorities are national security, U.S. leadership in industries of the future, energy and environmental leadership, health and bioeconomic innovation, and space exploration and commercialization. The document also describes five crosscutting actions federal agencies should implement to maintain the country's leadership in science and technology.

NIH Announced New Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Programs: MOSAIC is designed to facilitate the transition of promising postdoctoral researchers from diverse backgrounds, such as individuals from groups underrepresented in the biomedical research workforce at the faculty level, into independent faculty careers at research-intensive institutions.

UNT office of Research and Innovation will be conducting a grant workshop on NIH Funding on Thursday, September 19th, Union Room 332, and also teleconference this workshop to Discovery Park (Room 245).

UNT Office of Compliance and Integrity has requested to add two additional questions to **the GCS Request form**: Will you have any international collaborators (funded or unfunded) in this proposal or contract? Will any non-U.S. persons be involved in this proposal or contract as a PI, Co-PI, researcher, or staff?

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: *Saraju Mohanty*
Department: Computer Science and Engineering
Co-PI: Elias Kougianos
Department: Engineering Technology
Co-PI: Elias Mpofu
Department: Rehabilitation and Health Service
Project Title: CyberTraining: Implementation: Small: Collaborative Research: Easy-Med: Interdisciplinary Training in Security, Privacy-Assured Internet of Medical Things
Sponsor: National Science Foundation - NSF
Project Period: 6/3/2019   - 8/31/2022
Award: $247,373.00

PI: *Kameswara Rao Namuduri*
Department: Electrical Engineering
Project Title: Export Controlled - Title removed
Sponsor: Texas A&M University - Corpus Christi
Project Period: 8/5/2019   - 9/30/2019
Award: $8,019.00

PI: *Wonbong Choi*
Department: Materials Science and Engineering, Mechanical and Energy Engineering
Co-PI: Gayatri Mehta
Department: Electrical Engineering
Co-PI: Donghui Zhu
Project Title: EAGER: Flexible wireless joint sensing system for knee arthroplasty
Sponsor: National Science Foundation - NSF
Project Period: 7/2/2019   - 9/30/2021
Award: $150,000.00

PI: *Armin Mikler*
Department: Computer Science and Engineering
Project Title: Development and deployment of computational methods to facilitate response planning for POD placement and distribution of Medical Counter Measures from Regional RSS sites to PODs in Texas DSHS Region 6/5S
Sponsor: Texas Department of State Health Service
Project Period: 7/1/2019   - 8/31/2019
Award: $55,735.00

PI: *Ifana Mahbub*
Department: Electrical Engineering
Project Title: High Surface Area Reverse Electro-wetting Mechanoelectrical Transduction
Sponsor: National Science Foundation - NSF
Project Period: 9/1/2019   - 8/31/2022
Award: $367,994.00

PI: *Samir Aouadi*
Co-PIs: Andrey Voevodin, Diana Berman
Department: Materials Science and Engineering
Project Title: Materials for Internal Combustion Engines
Sponsor: US Army Research Laboratory - ARL
Project Period: 9/1/2019   - 8/31/2022
Award: $20,000.00

PI: *Hector Siller Carrillo*
Department: Engineering Technology
Project Title: Walkway Safety Research and Bio-mimetic Surfaces Development
Sponsor: Walkway Management Group
Project Period: 9/1/2019   - 8/31/2022
Award: $180,000.00

FUNDING OPPORTUNITIES

National Science Foundation

Research in the Formation of Engineers (RFE)
Type of Award: Standard Grant ;
Award: $350,000 for 36 months;
Solicitation ID: NSF PD 19-1340
Full proposal Accepted Anytime

Computer and Information Science and Engineering (CISE): Core Programs
Type of Award: Standard Grant ;
Anticipated Funding: $75M;
Number of Awards: 150;
Solicitation ID: NSF 19-589
Full proposal due: Large and Medium: Sep 30, 2019; Small: Nov 14, 2019

EHR Core Research (ECR)
STEM Learning and Learning Environments, Broadening Participation, and Workforce Development
Type of Award: Standard or Continuing Grant ;
Anticipated Funding: $35M;
Number of Awards: 50;
Solicitation ID: NSF 19-508
Full proposal due: Oct 03, 2019

NSF/Intel Partnership on Machine Learning for Wireless Networking Systems (MLWiNS)
Type of Award: Standard or Continuing Grant or Intel Agreement;
Anticipated Funding: $9M;
Number of Awards: 10 to 15;
Solicitation ID: NSF 19-591
Full proposal due: Oct 29, 2019

ADVANCE: Organizational Change for Gender Equity in STEM Academic Professions (ADVANCE)
Type of Award: Standard Grant ;
Anticipated Funding: $75M;
Number of Awards: 150;
Solicitation ID: NSF 19-552
LOI due: Nov 1, 2019
Full proposal due: Jan 15, 2020

EMERGING FRONTIERS IN RESEARCH AND INNOVATION: Distributed Chemical Manufacturing (DCheM) and Engineering the Elimination of End-of-Life Plastics (E3P) (EFRI-2020)
Type of Award: Standard or Continuing Grant ;
Anticipated Funding: $30M;
Number of Awards: 15;
Solicitation ID: NSF 19-599
LOI due: Nov 4, 2019
Pre-proposal due: Dec 02, 2019
Full proposal due: mar 26, 2020

(Limited) Advanced Computing Systems & Services: Adapting to the Rapid Evolution of Science and Engineering Research
Type of Award: Cooperative Agreement;
Anticipated Funding: $5-10M per award for up to 5 years;
Number of Awards: 2 to 4;
Solicitation ID: NSF 19-587
Full proposal due: Nov 05, 2019

NSF/DOE Partnership in Basic Plasma Science and Engineering
Type of Award: Standard or Continuing Grant ;
Anticipated Funding: $3M- $4M;
Number of Awards: 20-30;
Solicitation ID: NSF 19-596
Full proposal due: Nov 18, 2019

(Limited) National Science Foundation Research Traineeship (NRT) Program
Type of Award: Standard Grant ;
Anticipated Funding: $45M;
Number of Awards: 14 to 15;
Solicitation ID: NSF 19-522
LOI due: Nov 25 - Dec 6, 2019
Full proposal due: Feb 6, 2020

FUNDING OPPORTUNITIES

[Smart and Connected Health(SCH) Connecting Data, People and Systems](#)
Type of Award: Standard Grant or Continuing Grant or Cooperative Agreement or other funding mechanism;
Anticipated Funding: $11M to $20M;
Number of Awards: 8 to 16;
Solicitation ID: NSF 18-541
Full proposal due: Dec 11, 2019

[Small Business Innovation Research Program Phase I (SBIR)](#)
Type of Award: Fixed Award Amount;
Anticipated Funding: $33,750,000;
Number of Awards: 150;
Solicitation ID: NSF 19-554
Submission Window: Jun 14 - Dec 12, 2019

[(Limited)Major Research Instrumentation Program: (MRI) Instrument Acquisition or Development](#)
Type of Award: Standard or Continuing Grant ;
Anticipated Funding: $280M;
Number of Awards: 400 to 600;
Solicitation ID: NSF 18-513
Full proposal due: Jan 19, 2020

National Institute of Health

[Explainable Artificial Intelligence for Decoding and Modulating Neural Circuit Activity Linked to Behavior (R01 Clinical Trial Optional)](#)
FOA: PAR-19-344
LOI due: Feb 10, 2020
Full proposal due: Mar 10, 2020

Spencer Foundation

[Small Research Grants](#)
The Small Research Grants Program supports education research projects that will contribute to the improvement of education, broadly conceived, with budgets up to $50,000 for projects ranging from one to five years.
Application due: Nov 1, 2019

Junior Faculty Awards

[DARPA Young Faculty Award (YFA)](#)
Solicitation ID: DARPA-RA-19-01
Award: Up to $500,000 per award
LOI due: Sep 18, 2019
Proposal due: 11/19/2019

[Ralph E. Powe Junior Faculty Enhancement Awards](#)
Eligibility: assistant professors within two years of their initial tenure track appointment at the time of application.
Award: $5,000
Application due: Jan 8, 2020

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

Graduate student Funding

[Graduate Research Fellowship Program (GRFP)](#)
Type of Award: Fellowship ;
Anticipated Funding: $138,000 per award;
Number of Awards: 1,600 per fiscal year;
Solicitation ID: NSF 19-590
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, 2019

WEBINAR, WORKSHOP & EXPO

NSF

NSF/Intel Partnership on Machine Learning for Wireless Networking Systems (MLWiNS) Program Webinar
September 11, 2019 1-2 PM

Advanced Computing Systems & Services (ACSS) Program Webinar
This Webinar covers the NSF 19-587 solicitation.
September 5, 2019; 11 AM – 12PM

Fall 2019 Grants Conference
November 18-19, 2019 Boston, MA
Registration will open on Thursday, September 5 at 12 p.m. EST.

NIH

Informational Webinar on the NIH Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Program Funding Opportunity Announcements (UE5 and K99/R00)
September 24, 2019; 12 PM – 2 PM

Fall 2019 NIH Regional Seminar
Nov 6-8, 2019 Phoenix, AZ
Registration now opens.

DOD

SBIR/STTE Innovation Summit
October 8-10, 2019 National Harbor, MD

DOE

Composites and Advanced Materials Expo
Sep 23-26, 2019 Anaheim, CA

NIST

10th Annual NICE Conference and Expo
November 18-20, 2019 Phoenix, Arizona

2018 NICE K-12 Cybersecurity Education Conference
December 9-10, 2019 Garden Grove, CA

SERDP

SERDP-ESTCP Symposium 2019
December 3-5, 2019, Washington, D.C.

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