RESEARCH SERVICES

COLLEGE OF ENGINEERING

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November 2018

Research, Funding News

The new NSF Proposal & Award Policies & Procedures Guide (PAPPG), (NSF 19-1) will be effective for proposals submitted, or due, on or after January 28, 2019. A webinar to brief the community on the new PAPPG will be held on November 27 at 2 PM EST.
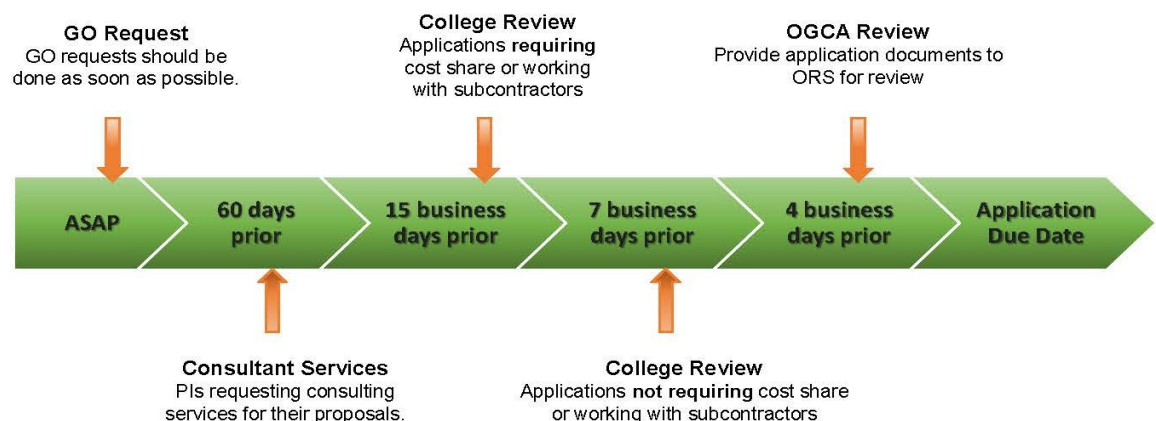
NSF CISE Community Research Infrastructure (CCRI): will specifically support diverse communities of CISE researchers pursuing focused research agendas in computer and information science and engineering. Previous CRI program is discontinued.

Harnessing the Data Revolution: NSF lists a series of funding opportunities as part of this "big idea". The RFP links are included in the Funding Opportunity section below.

New report calls for long-term NSF commitment to mid-scale research infrastructure: "We believe that the investment of $60 million that NSF proposes for its Mid-scale Big Idea in fiscal year 2019 is a good start," said Carl Lineberger, who chairs the NSB's Committee on Awards and Facilities. "Part of the idea of running a program for a few years is to get a firm sense of demand and figure out how to 'right size' our approach to also preserve space for other kinds of infrastructure, as well as for research and education investments." "Bridging the Gap: Building a Sustained Approach to Mid-scale Research Infrastructure and Cyberinfrastructure at NSF," is available here.

NIH, Amgen Foundation, and FNIH renew support for undergraduate research opportunities—The Amgen Scholars Program at NIH aims to break down barriers for many students who otherwise would not have the opportunity to engage in science at the world's top educational and research institutions. NIH will begin accepting applications for the 2019 Amgen Scholars Program at NIH from Nov. 26, 2018 through Feb. 1, 2019.

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: *Leticia Anaya*
Department: Engineering Technology
Project Title: Missile Defense Agency Boosting Engineering, Science and Technology (BEST) Robotics Grant Kit 2018
Sponsor: Missile Defense Agency
Project Period: 9/1/2018 - 12/28/2018
Award: $15,000.00

PI: *Kameswara Rao Namuduri*
Department: Electrical Engineering
Project Title: UTM for Wildland Fire Management
Sponsor: Unmanned Experts Inc.
Project Period: 9/1/2018 - 8/31/2019
Award: $39,747.00

PI: *Haifeng Zhang*
Department: Mechanical and Energy Engineering
Project Title: Fabrication of Patterned Electrodes and Harmonic Generation Measurements
Sponsor: Wonkwang University
Project Period: 8/1/2018 - 5/31/2019
Award: $10,000.00

PI: *Marcus Young*
Department: Materials Science and Engineering
Project Title: Characterization of Superconducting Thin Film Materials
Sponsor: Superconductor Technologies Inc.
Project Period: 11/1/2018 - 10/31/2019
Award: $80,000.00

FUNDING OPPORTUNITIES

National Science Foundation

Emerging Frontiers in Research and Innovation 2019 (EFRI-2019)
Anticipated Funding: $30M; 15 (4-year) awards.
Solicitation ID: NSF 19-502
Letter of Intent due: Nov 29, 2018
Preliminary Proposal due: Jan 07, 2019
Full Proposal due: Apr 25, 2019

(Limited) Small Business Innovation Research Program Phase I (SBIR)
Anticipated Funding: $33.75M; 150 awards.
Solicitation ID: NSF 18-593
Full proposal due: Dec 4, 2018

(Limited) National Science Foundation Research Traineeship (NRT) Program
Solicitation ID: NSF 19-522
Letter of Intent due: Dec 6, 2018
Full proposal due: Feb 6, 2019

Smart and Connected Health(SCH)
Anticipated Funding: $20M; 8-16awards.
Solicitation ID: NSF 18-541
Full proposal due: Dec 11, 2018

Enabling Early-Stage Secure and Trustworthy Cyberspace (SaTC) Socio-Technical Interdisciplinary Collaborations
Up to 10 EAGER awards.
Solicitation ID: NSF 18-109
Full proposal due: Dec 12, 2018

(Limited) NSF Quantum Computing & Information Science Faculty Fellows (QCIS-FF)
One of NSF's 10 Big Ideas
Anticipated Funding: $6.75M
Total budget is not to exceed $750,000 per proposal, with up to two awards per institution.
Solicitation ID: NSF 19-507

(Limited) Enabling Access to Cloud Computing Resources for CISE Research and Education (Cloud Access)
Cooperative Agreement (1 award);
Anticipated Funding: $5M
Solicitation ID: NSF 19-510
Letter of Intent due: Dec 20, 2018
Full proposal due: Feb 19, 2019

Accelerating Research through International Network-to-Network Collaborations (AccelNet)
Anticipated Funding: $3M to $6M;
7-9 awards.
Solicitation ID: NSF 19-501
Letter of Intent due: Dec 21, 2018
Full Proposal due: Feb 28, 2019

CISE Community Research Infrastructure (CCRI)
Anticipated Funding: $25M
Solicitation ID: NSF 19-512
Letter of Intent Due: Jan 8, 2019
Full proposal due: Feb 20, 2019

Gen-4 Engineering Research Centers (ERC): Convergent Research and Innovation through Inclusive Partnerships and Workforce Development
Anticipated Funding: $14M; 4 Awards.
Solicitation ID: NSF 19-503
Preliminary Proposal due: January 16, 2019
Full proposal due: Jul 12, 2019

Joint DMS/NLM Initiative on Generalizable Data Science Methods for Biomedical Research (DMS/NLM)
Anticipated Funding: $4M; 8 to 10 awards.
Solicitation ID: NSF 19-500
Full Proposal due: Jan 16, 2019

FUNDING OPPORTUNITIES

National Science Foundation

Ceramics (CER)
Anticipated Funding: $10M
Solicitation ID: NSF 19-515
Proposals Accepted Anytime

Scalable Parallelism in the Extreme (SPX)
Anticipated Funding: $10M;
Up to 10 awards with durations of 3-4 years and up to $3,000,000 per award.
Solicitation ID: NSF 19-505
Full proposal due: Jan 17, 2019

(Limited) Partnerships for Innovation (PFI)
Anticipated Funding: $20M;
Number of Awards: 55-65.
Solicitation ID: NSF 19-506
Full proposal due: Jan 17, 2019; Jul 10, 2019

(Limited) NSF Major Research Instrumentation Program (MRI)
Solicitation ID: NSF 18-513
Full proposal due: Jan 22, 2019

Cybersecurity Innovation for Cyberinfrastructure (CICI)
Anticipated Funding: $19M
Solicitation ID: NSF 19-514
Full proposal due: Jan 23, 2019

EHR Core Research (ECR)
STEM Learning and Learning Environments, Broadening Participation, and Workforce Development
Anticipated Funding: $35M
Solicitation ID: NSF 19-508
Full proposal due: Jan 24, 2019

(Limited) Harnessing the Data Revolution (HDR): Data Science Corps (DSC)
Anticipated Funding: $10M
Solicitation ID: NSF 19-518
Full proposal due: Feb 4, 2019

Designing Materials to Revolutionize and Engineer our Future (DMREF)
Solicitation ID: NSF 19-516
Full proposal due: Feb 4, 2019

Designing Materials to Revolutionize and Engineer our Future (DMREF)
Anticipated Funding Amount: $36M
Solicitation ID: NSF 19-516
Full proposal due: Feb 4, 2019

Navigating the New Arctic (NNA)
One of NSF's 10 Big Ideas
Anticipated Funding: $30M
Solicitation ID: NSF 19-511
Full proposal due: Feb 14, 2019

NSF/CASIS Collaboration on Tissue Engineering and Mechanobiology on the International Space Station (ISS) to Benefit Life on Earth
Anticipated Funding: $2M; 5 awards.
Solicitation ID: NSF 19-509
Full proposal due: Feb 15, 2019

Algorithms for Threat Detection (ATD)
Anticipated Funding: $3M;
10 to 20 awards.
Solicitation ID: NSF 19-504
Full proposal due: Feb 19, 2019

FUNDING OPPORTUNITIES

National Institute of Health

BRAIN Initiative: Research Resource Grants for Technology Integration and Dissemination (U24 Clinical Trial Not Allowed)
Anticipated Funding: $10M per year to fund an estimated 10 to 20 awards.
Solicitation ID: NIH RFA-NS-19-006
Letter of Intent: 30 days prior to the application due dates
Application due: Jan 4, 2019; Jun 27, 2019

BRAIN Initiative: Research on the Ethical Implications of Advancements in Neurotechnology and Brain Science (R01 Clinical Trial Optional)
Anticipated Funding: $3M in FY19 to fund up to 8 awards.
Solicitation ID: NIH RFA-MH-19-400
Letter of Intent: 30 days prior to the application due dates
Application due: Feb 4, 2019; Oct 9, 2019

Innovation Corps (I-Corps™) at NIH Program for NIH and CDC Translational Research (Admin Supp Clinical Trial Not Allowed)
Anticipated Funding: $1.2M in each fiscal year (FY19-21) to fund up to 24 awards per year.
Solicitation ID: NIH PA-19-029
Application due: Nov 19, 2018; Jan 28, 2019

Basic Neurodevelopmental Biology of Brain Circuits and Behavior (R21 Clinical Trial Not Allowed)
Solicitation ID: NIH PAR-19-028
Application due: Feb 4, 2019

BRAIN Initiative Cell Census Network (BICCN) Scalable Technologies and Tools for Brain Cell Census (R01 Clinical Trial Not Allowed)
Anticipated Funding: $6M to fund 4-8 awards.
Solicitation ID: NIH RFA-MH-19-148
Letter of Intent: Dec 22, 2018
Application due: Jan 22, 2019

NIH Blueprint Program for Enhancing Neuroscience Diversity through Undergraduate Research Education Experiences (R25 Clinical Trial Not Allowed)
Anticipated Funding: $3M in FY19 to fund 6-10 awards.
Solicitation ID: NIH RFA-NS-19-007
Letter of Intent: Jan 15, 2018
Application due: Feb 15, 2019

Imaging - Science Track Award for Research Transition (I/START) (R03 Clinical Trial Optional)
Award: Direct costs of up to $150,000 per year and is for a period of one year only.
Solicitation ID: NIH PAR-18-918
Application due: Feb 16, 2019

Department of Defense

Photonics in the Package for Extreme Scalability (PIPES)
Solicitation ID: DARPA HR001119S0004
Anticipated Funding: Approximately $65M; Multiple awards.
Abstract due: Nov 20, 2018
Presolicitation due: Jan 3, 2019

Electronic Warfare Technology
Solicitation ID: ONR N00014-19-R-S002
Anticipated Funding: $25-30M; Multiple awards.
White paper due: Dec 7, 2018
Full proposal due: Feb 28, 2019

NRL Long Range Broad Agency Announcement (BAA) for Basic and Applied Research
Solicitation ID: NRL N00173-18-S-BA01
Closing Date: May 9, 2019

FUNDING OPPORTUNITIES

Microsystems Technology Office (MTO)
Solicitation ID: DARPA HR001118S0060
Abstracts may be submitted on a rolling basis until
May 26, 2020
Proposals may be submitted on a rolling basis until
June 26, 2020

AFRL/RXC Structural Materials Open BAA
Solicitation ID: AFRL FA8650-18-S-5010
Available program funding: $99.5M;Awards: $1-5M.
Closing Date: Sep 20, 2023, Rolling

Department of Energy

Advanced Systems Integration for Solar Technologies
Solicitation ID: DE-FOA-0001987
Letter of Intent due Nov 14, 2018
Full Proposal due: Dec 7, 2018

Transformational Sensing Capabilities for Monitoring the Subsurface
Solicitation ID: DE-FOA-0001998
Full Proposal due: Dec 3, 2018

National Aeronautics and Space Administration

Second Heliophysics Space Weather Operations to Research
Solicitation ID: NNH18ZDA001N-2HSWO2R
Step-1 Proposal due: Feb 1, 2019

JUNIOR FACULTY AWARDS

NIH Early Stage Investigator Polices

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 7, 2019

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

Undergraduate Engineering Scholarships (ASHRAE)
Scholarships $3,000—$10,000.
Application due: Nov 15, 2018

Science, Mathematics and Research for Transformation (SMART) Scholarship for Service Program
Eligibility: citizen of the United States, Australia, Canada, New Zealand, or United Kingdom at time of application
Award: Full tuition plus stipend $25,000-38,000. Employment placement at a DoD facility after graduation.
Application due: Dec 1, 2018

National Defense Science and Engineering Graduate (NDSEG) Fellowship
Eligibility: U.S. citizen
Award: NDSEG Fellowships last for a period of up to three years (based on continued funding), and covers full tuition and mandatory fees. Fellows also receive a monthly stipend ($3,200), and up to $1,200 a year in medical insurance.
Application due: Dec 7, 2018

NIH Graduate/Clinical Doctorate Fellowships
Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship (Parent F31)

Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research (Parent F31)

Application due: Standard dates (Apr 8, Aug 8, Dec 8)

WEBINAR, WORKSHOP & EXPO

NSF
PAPPG Update Webinar 2019
November 27, 2018 2PM ET

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

NIST
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.

SUMMER VISITING FACULTY PROGRAM

Department of Energy, **the U.S. Air Force Research lab**, **the U.S. Army Research Lab** and **the Office of Naval Research** have summer visiting faculty programs. The applications are solicited for appointments to the next Summer Term.

DOE Visiting Faculty Program (VFP) — Applications Due January 10, 2019.

AFRL/RI Visiting Faculty Research Program (VFRP) – Applications Due January 11, 2019

AFRL/SFFP Summer Faculty Research Fellowship (SFFP) – Applications Due Dec 5, 2018

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