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## Research, Funding News

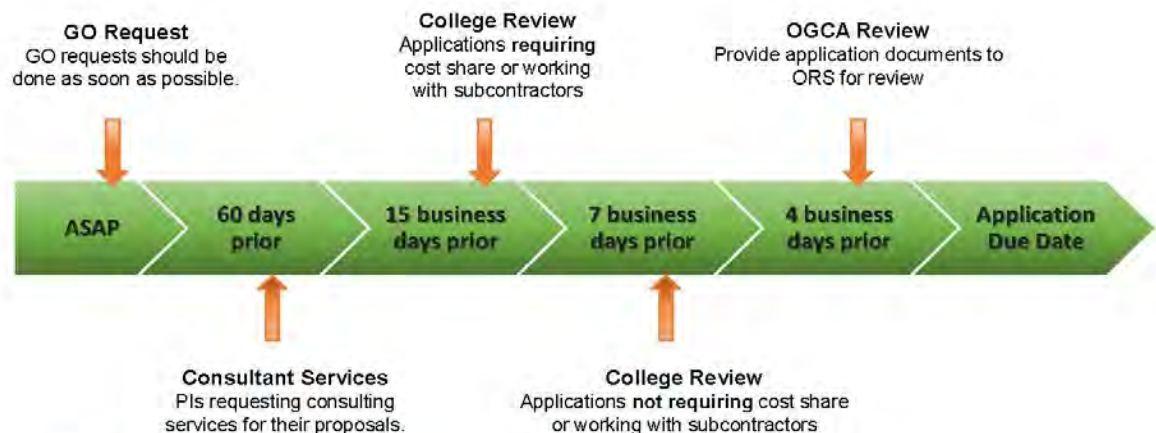
NSF recently released [JASON report on research security](#). "At the beginning of 2020, NSF will issue a clarification to its longstanding policy requiring researchers seeking NSF funding to disclose their other sources of support. NSF has long required researchers to disclose all other sources of support, both foreign and domestic. The clarification to NSF's guidance will ensure proposers and awardees understand these requirements."

[President Trump intends to nominate Sethuraman Panchanathan as next National Science Foundation Director](#): Sethuraman Panchanathan, a professor of computing and informatics at Arizona State University, has served as ASU's chief research and innovation officer since 2010 and is also executive vice president of the university's "knowledge enterprise." He would replace France Córdova, whose six-year term expires in March, 2020.

[U.S. Congress approves \\$1.4 trillion package of fiscal 2020 spending bills](#): NASA would receive \$22.6 billion, NSF and NIH would receive respectively \$8.3 billion and \$41.7 billion and the Department of Energy gets \$7 billion. Congress is continuing to provide large funding increases for DOD's Research, Development, Test, and Evaluation accounts this year, for a total of \$105 billion. Within that, basic research programs will increase 3% to \$2.6 billion.

UNT's next [grant proposal planning and writing workshop](#) will be held on Feb 27, 2020 at Union 332. The distinguished AtKisson Training Group LLC, will deliver a one-day grant writing workshop focused on proposal preparation and review processes that lead to increased external funding submission success.

## Pre-Award Timeline and Process



# Recent Research Grant and Contract Awards

Congratulations to faculty on receiving research grant and contract awards!

**PI:** *Jincheng Du*

**Department:** Materials Science & Engineering

**Project Title:** AGC-UNT collaborative research project on simulations of multicomponent oxide glasses and glass/water reactions

**Sponsor:** Asahi Glass Co., Ltd.

**Project Period:** 10/1/2019 - 9/30/2020

**Award:** \$99,870.00

**PI:** *Cheng Yu*

**Department:** Engineering Technology

**Project Title:** Equivalent Section Properties of Cold-Formed Steel Members

**Sponsor:** Hilti Inc.

**Project Period:** 11/1/2019 - 5/31/2020

**Award:** \$20,043.00

**PI:** *Samir Aouadi*

**Department:** Materials Science & Engineering

**Project Title:** Materials for Internal Combustion Engines

**Sponsor:** US Army Research Laboratory - ARL

**Project Period:** 11/6/2019 - 8/31/2022

**Award:** \$30,000.00

**PI:** *Narendra Dahotre*

**Co-PIs:** Sundeep Mukherjee

**Department:** Materials Science & Engineering

**Co-PIs:** Haifeng Zhang

**Department:** Mechanical & Energy Engineering

**Co-PIs:** Seifollah Nasrazadani, Cheng Yu

**Department:** Engineering Technology

**Project Title:** Title Removed - Export Controlled

**Sponsor:** KRI at Northeastern, LLC.

**Project Period:** 3/30/2019 - 3/29/2020

**Award:** \$110,867.00

**PI:** *Rodney Nielsen*

**Department:** Computer Science & Engineering

**Project Title:** Visuomotor integration and attention in Autism Spectrum Disorder

**Sponsor:** University of North Texas Health Science at Fort Worth

**Project Period:** 9/1/2019 - 4/30/2020

**Award:** \$17,500.00

**PI:** *Ifana Mahbub*

**Department:** Electrical Engineering

**Project Title:** CAREER: Next-generation of Wirelessly Powered Implantable Neuromodulation and Electrophysiological Recording System for Long-term Behavior Study of Freely-Moving Animals

**Sponsor:** National Science Foundation - NSF

**Project Period:** 2/1/2020 - 1/30/2025

**Award:** \$378,380.00

**PI:** *Marcus Young*

**Department:** Materials Science & Engineering

**Project Title:** Thermo-mechanical Studies on NiTi-based High Temperature Shape Memory Alloys

**Sponsor:** National Aeronautics & Space Administration - NASA

**Project Period:** 9/1/2019 - 8/31/2020

**Award:** \$45,000.00

**PI:** *Diana Berman*

**Department:** Materials Science & Engineering

**Project Title:** Design of gas sensing system

**Sponsor:** Argonne National Laboratory - ANL

**Project Period:** 10/1/2019 - 5/1/2020

**Award:** \$7,425.00

**PI:** *Krishna Kavi*

**Co-PI:** Nagendra Gulur

**Department:** Computer Science & Engineering

**Project Title:** EMPOWER: High-Performance, Low-Power and Fully Programmable Neural Network Architecture

**Sponsor:** Semiconductor Research Corporation

**Project Period:** 1/1/2020 - 12/31/2022

**Award:** \$80,000.00

# FUNDING OPPORTUNITIES

## National Science Foundation

### [IUSE / Professional Formation of Engineers: Revolutionizing Engineering Departments \(IUSE/PFE: RED\)](#)

Anticipated Funding: \$4M - \$8M;

Number of Awards: 4 - 6;

Solicitation ID: NSF 19-513

Full proposal due: Feb 7, 2020

### [Computer Science for All \(CSforAll:RPP\) Researcher Practitioner Partnerships](#)

Anticipated Funding: \$20M;

Number of Awards: 24;

Solicitation ID: NSF 18-537

Full proposal due: Feb 11, 2020

### [EHR Core Research \(ECR\): Building Capacity in STEM Education Research \(ECR: BCSEER\)](#)

Anticipated Funding: \$12M;

Number of Awards: 26;

Solicitation ID: NSF 20-521

Full proposal due: Feb 28, 2020

### [Environmental Convergence Opportunities in Chemical, Bioengineering, Environmental, and Transport Systems \(ECO-CBET\)](#)

Anticipated Funding: \$8.5M;

Number of Awards: 5 - 7;

Solicitation ID: NSF 20-517

Preliminary proposal due: Feb 12, 2020

Full proposal due: April 30, 2020

### [\(Limited\) Small Business Innovation Research Program Phase I \(SBIR\)](#)

Anticipated Funding: \$75M;

Number of Awards: 300;

Solicitation ID: NSF 20-528

Full proposal due: Mar 5, 2020

### [\(Limited\) Small Business Technology Transfer Program Phase I \(STTR\)](#)

Anticipated Funding: \$17M;

Number of Awards: 65;

Solicitation ID: NSF 20-528

Full proposal due: Mar 5, 2020

### [Semiconductor Synthetic Biology for Information Storage and Retrieval \(SemiSynBio-II\)](#)

Anticipated Funding: \$12M;

Number of Awards: 8 - 10;

Solicitation ID: NSF 20-518

Full proposal due: Feb 14 - Mar 16, 2020

### [Next Generation Software for Data-driven Models of Space Weather with Quantified Uncertainties \(SWQU\)](#)

Type of Award: Standard Grant or Continuing Grant ;

Anticipated Funding: \$12M;

Number of Awards: 4-8;

Solicitation ID: NSF 20-526

Full proposal due: March 20, 2020

### [NSF Scholarships in Science, Technology, Engineering, and Mathematics Program \(S-STEM\)](#)

Limit: one proposal from each constituent school or college that awards degrees in an S-STEM eligible discipline;

Type of Award: Standard Grant or Continuing Grant ;

Anticipated Funding: \$70M - \$95M;

Number of Awards: 60-80;

Solicitation ID: NSF 20-526

Full proposal due: March 25, 2020

### [Principles and Practice of Scalable Systems \(PPoSS\)](#)

Anticipated Funding: \$87M;

Number of Awards: 43;

Solicitation ID: NSF 20-534

Full proposal due: March 30, 2020

# FUNDING OPPORTUNITIES

## [International Research and education Network Connections \(IRNC\)](#)

Anticipated Funding: \$20M - \$50M;

Number of Awards: 5 - 14;

Solicitation ID: NSF 20-535

Full proposal due: April 01, 2020

## [Spectrum and Wireless Innovation enabled by Future Technologies \(SWIFT\)](#)

Anticipated Funding: \$12M;

Number of Awards: 12 - 16;

Solicitation ID: NSF 20-537

Full proposal due: April 03, 2020

## [Expeditions in Computing](#)

Anticipated Funding: \$30M;

Number of Awards: 2 - 4;

Solicitation ID: NSF 18-528

Preliminary proposal due: April 22, 2020

Full proposal due: Jan 20, 2021

## 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

### [\(Limited\) Team-Based Design in Biomedical Engineering Education \(R25 Clinical Trial Not Allowed\)](#)

FOA: PAR-19-215

LOIs due: Apr 27, 2020

Full proposal due: May 28, 2020

## Department of Defense

### [National Defense Education Program \(NDEP\) for Science, Technology, Engineering, and Mathematics \(STEM\) Education, Outreach, and Workforce Initiative Programs, FY 2020](#)

Solicitation: HQ0034-20-S-FO01

Proposal due: Feb 24, 2020

### [Fiscal Year \(FY\) 2021 Funding Opportunity Announcement \(FOA\) for the Office of Naval Research \(ONR\) Manufacturing Science Program](#)

Solicitation: N00014-20-S-F002

White Papers due: Mar 6, 2020

## Department of Energy

### [Aviation-Class Synergistically Cooled Electric-Motors with Integrated Drives \(ASCEND\)](#)

Solicitation: DE-FOA-0002238

Concept Paper due: Jan 31, 2020

Full Application due: TBD

### [Range Extenders for Electric Aviation with Low Carbon and High Efficiency \(REEACH\)](#)

Solicitation: DE-FOA-0002240

Concept Paper due: Jan 31, 2020

Full Application due: TBD

### [Extreme Environment Materials for Power Generation](#)

Solicitation: DE-FOA-0002192

Proposal due: Feb 21, 2020

### [Notice of Intent to Issue FOA DE-FOA-0002197 entitled "FY 2020 Vehicle Technologies Program Wide Funding Opportunity Announcement".](#)

DE-FOA-0002222

This FOA will be posted to the EERE Exchange website in the January/February 2020 timeframe.

# FUNDING OPPORTUNITIES

## NASA

### [2020 Established Program to Stimulate Competitive Research \(EPSCoR\)](#)

Solicitation: NNH20ZHA005C

NOIs due: Jan 24, 2020

Proposal due: Mar 6, 2020

### [Sustainable Land Imaging - Technology](#)

Solicitation: NNH19ZDA001N-SLIT

NOIs due: Feb 5, 2020

Proposal due: Apr 7, 2020

## National Academies

### [Transportation Research Board -- Innovations Deserving Exploratory Analysis \(IDEA\) Programs](#)

NCHRP Highway IDEA program due: Mar 1, 2020

Transit IDEA program due: May 1, 2020

## USDA

### [Women and Minorities in Science, Technology, Engineering, and Mathematics Fields Program \(WAMS\)](#)

Solicitation: USDA-NIFA-WAMS-007011

Total Award: \$400,000

Applications due: Feb 24, 2020

## Junior Faculty Awards

NIH

### [NCMRR Early Career Research Award \(R03 Clinical Trial Optional\)](#)

FOA: PAR-20-042

Full proposal due: March 30, 2020, March 30, 2021, March 30, 2022

NSF

### [Faculty Early Career Development Program \(CAREER\)](#)

Type of Award: Standard Grant or Continuing Grant ;

Anticipated Funding: \$250M;

Number of Awards: 500;

Solicitation ID: NSF 20-525

Full proposal due: July 27, 2020

## Graduate student Funding

### [NIAID Emerging Leaders in Data Sciences Fellowship Program](#)

Up to two years' Fellowship for Grad student, Postdoctoral

FOA: NIH-NIAID-2020-0004

Deadline: Feb 8, 2020

Eligibility: U.S. citizens

# CONFERENCE, WORKSHOP & MORE

## [UNT Grantsmanship Training Workshop](#)

Dates: 2/27/20

Time: 8:30AM-5PM

Location: Union 332

## NSF

### [S-STEM 2020 Webinars](#)

S-STEM program staff will conduct a series of "Office Hours" webinars in January from Jan 21 to Jan 29.

### [Spring 2020 Grants Conference](#)

May 18-19, 2020 in Minneapolis, MN

### [NSF CISE CAREER Workshop 2020](#)

Registration will open soon.

April 6, 2020 in Alexandria, VA

Application deadline: Mar 2, 2020

## NIH

### [Spring 2020 NIH Regional Seminar](#)

Apr 20-22, 2020 Baltimore, MD

Registration is open.

### [Fall 2020 NIH Regional Seminar](#)

Oct 28-30, 2020 Nashville, TN

Registration opens late January.

# 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](http://www.ninesigma.com)