

## Inside This Issue:

News	1
Recently Awards	2
Funding Opportunities	3
Continued	4
Continued	5
Conferences & Summer Program	6

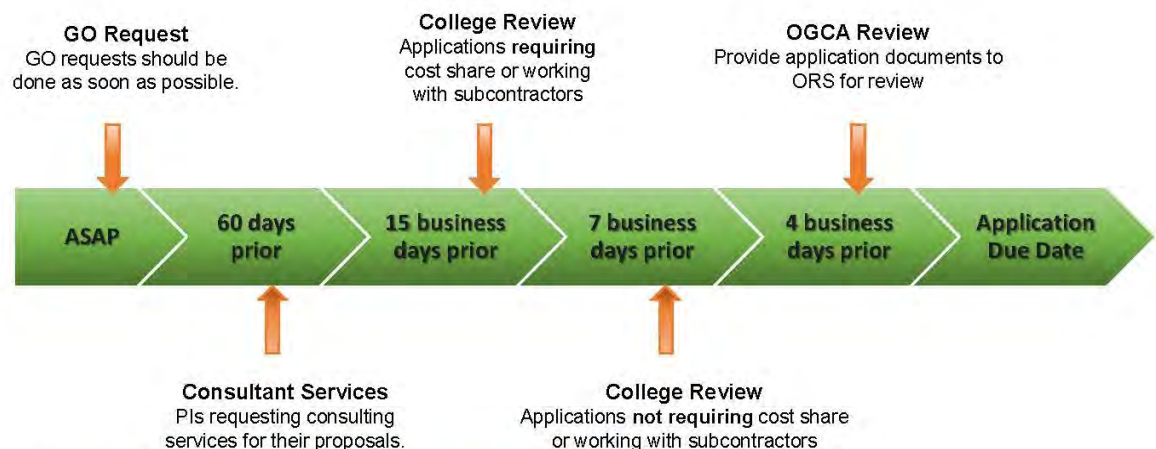
## Research, Funding News

The Senate Committee on Appropriations approved the [FY2020 Commerce, Justice, Science, and Related Agencies \(CJS\) Appropriations Act](#) on Sep 26, 2019. \$22.75 billion for NASA, \$1.25 billion above the FY2019 enacted level; \$8.317 billion for NSF, \$242 million above the FY2019 enacted level. NSF Funding is provided for basic research across scientific disciplines to support the development of effective STEM programs. The senators recommend "at least \$106 million for quantum information science research," and fully fund artificial intelligence "across NSF at the request level." \$1.04 billion for NIST, \$53 million above the FY2019 enacted level, to strengthen the U.S. cybersecurity posture through cutting-edge research and development.

[New Director for NSF Computer Information Science and Engineering:](#) Princeton University professor Dr. Margaret Martonosi will serve as head of the NSF CISE Directorate Feb. 01, 2020. Martonosi's long-term research has been focused on computer architecture and mobile computing with an emphasis on power-efficiency; more recently, has also focused on architecture and compiler issues in quantum computing as well. Martonosi has also been noted for her leadership in broadening participation in computer science education.

[Department of Energy AI Center:](#) The DOE's new Artificial Intelligence and Technology Office (AITO), will serve as a "coordinating hub for the work being done across the DOE enterprise in Artificial Intelligence". The vision is to "transform DOE into a world-leading AI enterprise".

## Pre-Award Timeline and Process



# Recent Research Grant and Contract Awards

Congratulations to faculty on receiving research grant and contract awards!

**PI:** *Rajiv Mishra*

**Department:** Materials Science and Engineering

**Project Title:** Advanced Manufacturing, Processing and Characterization of Light Weight and Adaptive Materials

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

**Project Period:** 9/11/2019 - 9/30/2020

**Award:** \$70,000.00

**PI:** *Rajiv Mishra*

**Department:** Materials Science and Engineering

**Project Title:** Advanced Manufacturing, Processing and Characterization of Light Weight and Adaptive Materials

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

**Project Period:** 9/11/2019 - 9/30/2020

**Award:** \$62,500.00

**PI:** *Marcus Young*

**Department:** Materials Science and Engineering

**Project Title:** Advanced Manufacturing, Processing and Characterization of Light Weight and Adaptive Materials

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

**Project Period:** 9/11/2018 - 9/30/2020

**Award:** \$60,000.00

**PI:** *Marcus Young*

**Department:** Materials Science and Engineering

**Project Title:** Advanced Manufacturing, Processing and Characterization of Light Weight and Adaptive Materials

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

**Project Period:** 9/11/2018 - 9/30/2020

**Award:** \$62,500.00

**PI:** *Narendra Dahotre*

**Department:** Materials Science and Engineering

**Project Title:** Advanced Manufacturing, Processing and Characterization of Light Weight and Adaptive Materials

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

**Project Period:** 10/31/2018 - 9/30/2020

**Award:** \$62,500.00

**PI:** *Rajiv Mishra*

**Department:** Materials Science and Engineering

**Project Title:** Advanced Manufacturing, Processing and Characterization of Light Weight and Adaptive Materials

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

**Project Period:** 9/11/2019 - 9/30/2020

**Award:** \$62,500.00

**PI:** *Rajiv Mishra*

**Department:** Materials Science and Engineering

**Project Title:** Advanced Manufacturing, Processing and Characterization of Light Weight and Adaptive Materials

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

**Project Period:** 9/11/2019 - 9/30/2020

**Award:** \$160,000.00

**PI:** *Andrey Voevodin*

**Department:** Materials Science and Engineering

**Project Title:** Advanced Manufacturing, Processing and Characterization of Light Weight and Adaptive Materials

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

**Project Period:** 9/11/2018 - 9/30/2020

**Award:** \$60,000.00

# FUNDING OPPORTUNITIES

## National Science Foundation

### [CISE Community Research Infrastructure \(CCRI\)](#)

Type of Award: Standard or Continuing Grant ;  
Anticipated Funding: \$25M;  
Number of Awards: 10 to 20;  
Solicitation ID: NSF 19-512  
LOI due: Nov 12, 2019  
Full proposal due: Jan 09, 2020

### [Inclusion Across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science \(NSF INCLUDES\)](#)

Type of Award: Standard or Continuing Grant;  
Anticipated Funding: \$3M;  
Number of Awards: 20 to 30;  
One of the 10 Big Ideas; 12-16 months in duration and the proposed budget for each Planning Grant must not exceed \$100,000.  
Solicitation ID: NSF 19-600  
Full proposal due: Dec 03, 2019; Jul 13, 2020

### [Improving Undergraduate STEM Education: Education and Human Resources \(IUSE: EHR\)](#)

Type of Award: Standard Grants ;  
Anticipated Funding: \$63M;  
Number of Awards: 105;  
Solicitation ID: NSF 19-601  
Full proposal due: Dec 04, 2019, Feb 04, 2020

### [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

### [Secure and Trustworthy Cyberspace \(SaTC\)](#)

Type of Award: Standard Grants ;  
Anticipated Funding: \$53M per year;  
Number of Awards: 73;  
Solicitation ID: NSF 19-0603  
Full proposal accepted anytime

### [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  
Internal deadline: Oct 11, 2019  
LOI due: Nov 25 - Dec 6, 2019  
Full proposal due: Feb 6, 2020

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

Type of Award: Standard or Continuing Grant ;  
Anticipated Funding: \$8M;  
Number of Awards: 4 to 6;  
Solicitation ID: NSF 19-614  
Full proposal due: Feb 07, 2020

# FUNDING OPPORTUNITIES

## [Interfacial Engineering](#)

Major research areas of interest include:

- 1) Chemical separations ; 2) Biological separations ;
- 3) Interfacial phenomena at engineered interfaces and surfaces ; 4) Nanoconfinement and engineered surfaces

Solicitation ID: NSF PD 20-1417

Full proposal accepted anytime

## [Nanoscale Interactions](#)

Part of the Environmental Engineering and Sustainability cluster, which also includes:

- 1) the Environmental Engineering program;
- 2) the Environmental Sustainability program.

Materials of interest include one- to three-dimensional nanostructures, heterogeneous nano-bio hybrid assemblies, dendritic and micelle structures, quantum dots, and other nanoparticles.

Solicitation ID: NSF PD 20-1179

Full proposal accepted anytime

## [Biosensing](#)

Proposals that incorporate emerging nanotechnology methods are especially encouraged.

Solicitation ID: NSF PD 20-7909

Full proposal accepted anytime

## [Engineering of Biomedical Systems \(EBMS\)](#)

The goal of EBMS program is to provide opportunities for creating fundamental and transformative research projects that integrate engineering and life sciences to solve biomedical problems and serve humanity in the long term.

Solicitation ID: NSF PD 20-5345

Full proposal accepted anytime

## [Biophotonics](#)

The goal of the Biophotonics program is to explore the research frontiers in photonics principles, engineering and technology that are relevant for critical problems in fields of medicine, biology and biotechnology.

Solicitation ID: NSF PD 20-7236

Full proposal accepted anytime

## 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

[NIH Blueprint for Neuroscience Research Education Program on Translational Devices \(R25 Clinical Trial Not Allowed\)](#)

This NIH Research Education Program (R25) has a focus on Courses for Skills Development

FOA: RFA-NS-20-003

LOI due: Nov 16, 2019

Full proposal due: Dec 16, 2019

## Department of Defense

[Long Range Broad Agency Announcement \(BAA\) for Navy and Marine Corps Science & Technology](#)

Agency: DOD ONR N00014-20-S-B001

Published: Sep 26, 2019

Full Proposals will be accepted until Sep 30, 2020

[NRL Long Range Broad Agency Announcement \(BAA\) for Basic and Applied Research](#)

Agency: DOD NRL N00173-19-S-BA01

Published: Sep 06, 2019

Full Proposals will be accepted until Sep 05, 2020

## Department of Energy

[Performance-Based Energy Resource Feedback, Optimization, And Risk Management](#)

Agency: DOE DE-FOA-0002171

Award: \$30M

Concept papers due: Oct 28, 2019

Full proposal due: TBD

# FUNDING OPPORTUNITIES

## NASA

### [NASA Space Technology Graduate Research Opportunities Fall 2020 \(NSTGRO20\)](#)

Solicitation: NASA 80HQTR19NOA01-20NSTGRO\_B4  
Full proposal due: Nov 05, 2019

### [Use of the NASA Physical Sciences Informatics System - Appendix F](#)

Solicitation: NNH17ZTT001N-17PSI\_F  
NOIs Due: Oct 28, 2019  
Full proposal due: Dec 16, 2019  
NASA will conduct a [Proposers' Conference](#) on Oct 8, 2019, to provide an overview of the solicitation.

## Junior Faculty Awards

### [\(Limited\) 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  
Internal deadline: Nov 15, 2019  
Application due: Jan 8, 2020

### Gordon and Betty Moore Foundation

#### [\(Limited\) Moore Inventor Fellows](#)

Eligibility: Must be within 10 years of receiving Ph.D.

Award: \$600,000  
Internal deadline: Oct 11, 2019  
Application due: Dec 13, 2019

## 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

### [ACI Foundation Graduate Fellowships](#)

Award: \$5,000 to \$50,000 per award  
Application due: Dec 02, 2019

### [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  
Application due: Dec 03, 2019

### [The NCI Predoctoral to Postdoctoral Fellow Transition Award \(F99/K00\)](#)

The F99/K00 award is intended for individuals who require 1-2 years to complete their Ph.D. dissertation research training (F99 phase) before transitioning to mentored postdoctoral research training (K00 phase).  
Award: \$1.2 M to fund up to 24 awards in FY2020.  
FOA: RFA-CA-19-057  
Application due: Dec 04, 2019

# CONFERENCE, WORKSHOP & MORE

## NSF

[Fall 2019 Grants Conference](#)

November 18-19, 2019 Boston, MA

## NIH

[Fall 2019 NIH Regional Seminar](#)

Nov 6-8, 2019 Phoenix, AZ

Registration now opens.

## NIST

[10th Annual NICE Conference and Expo](#)

November 18-20, 2019 Phoenix, Arizona

## SUMMER VISITING FACULTY PROGRAM

[ONR Summer Faculty Research Program](#)

Applications for the 2019 ONR Summer Faculty Research Program are accepted September 1, 2019 through December 12, 2019.

Fellowship announcement will be made March 1, 2020.

Fellowship Begins: May 4, 2020

[U.S. Air Force Research Lab Summer Faculty Fellowship Program](#)

Eligibility: Citizens of the United States

The online application for the FY 2019 Air Force Summer Faculty Fellowship Program is now open. Reference forms and letters must also be submitted electronically no later than Nov 29, 2019 at 5:00 PM EST.

Award notifications will be made in Spring 2020.

# 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)