DARPA 2019 Artificial Intelligence (AI) Colloquium

DARPA is holding the 2019 Artificial Intelligence (AI) Colloquium on March 6-7, 2019, in Alexandria, VA. **Attendance is limited.** If you are interested in attending, please email Sharon McCord at s-mccord@tamu.edu. For more information about the AI Colloquium, please see the [DARPA website](http://www.darpa.mil).

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**Funding Opportunities**

[http://tees.tamu.edu/researchsupport/funding/](http://tees.tamu.edu/researchsupport/funding/)

**TEES Research Development – Proposal Development Assistance**

**Assistance for Junior Faculty**

If you are junior faculty and would like help in submitting a proposal, please contact Dr. Laurie Garton at lsgarton@tamu.edu **at least 4 weeks before your proposal is due.** For the most assistance, please contact her **2-3 months in advance.**

Also, see **Junior Faculty Opportunities** below.

**If you are working on a multidisciplinary and/or multi-university proposal** and would like to use the services of TEES Research Development, please contact Dr. Laurie Garton at lsgarton@tamu.edu at least four weeks prior to the due date and after successfully negotiating the white paper or preproposal stage.

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**LIMITED SUBMISSIONS**

If you would like to receive all notices of limited submission opportunities, please email shelly.martin@tamu.edu. Note that if you are on this list, you will receive any and all announcements, whether or not they apply to you. All limited submission opportunities are also posted on the VPR’s site.

**Limited Submission** **NSF Harnessing the Data Revolution (HDR): Data Science Corps (DSC) Building Capacity for HDR** – Email of Intent Due November 26, 2018; Internal Proposal Due November 28, 2018

**Limited Submission** **NSF Cultivating Cultures for Ethical STEM (CCE STEM)** – Email of Intent Due November 28, 2018; Internal Proposal Due December 5, 2018
Limited Submission NIH Outstanding New Environmental Scientist (ONES) Award – Email of Intent Due December 5, 2018; Internal Proposal Due December 12, 2018

Limited Submission NIH Initiative for Maximizing Student Development (IMSD) (T32) – Email of Intent Due December 7, 2018; Internal Proposal Due December 14, 2018

DOC

New FY 2019 Community-based Restoration Program Coastal and Marine Habitat Restoration Grants (link) – Mandatory Pre-proposals Due January 14, 2019; Full Application Deadline Will Be No Earlier than April 15, 2019 (At least 45 days will be provided for completion of a full proposal.) – One-year or multi-year awards up to three funding years will be considered, and additional releases of funds may be used to fund selected proposals through FY21 without further competition. NOAA anticipates typical federal funding awards will range from $300,000 to $1.5 million over one to three years. NOAA will not accept proposals with a federal funding request of less than $75,000 or more than $3 million over three years.

DOD

New Limited Submission DARPA Glide Breaker (link) – Due December 21, 2018 – A single award is anticipated, however multiple awards are possible. The amount of resources made available under this BAA will depend on the quality of the proposals received and the availability of funds. Note: DARPA will consider up to and no more than two (2) separate proposals per organization in response to this solicitation.

New AFOSR Dynamically and Controllably Reconfigurable Antennas through Physical Deformation Processes (link) – Due January 18, 2019 – The grant award made under this competition will be to an educational institution in the United States (US) as defined by 10 USC § 2194. AFOSR anticipates approximately $4.8 million in total funding will be available to fund one (1) award for five (5) years depending on availability of funds. AFOSR anticipates that each year will be funded at approximately $964,000. If any subawards are proposed, the prime university must receive at least 50% of total funding requested.

New MARS Broad Agency Announcement (link) – Proposal Due Date for Initial Round of Selections for Technical Capability Areas: 1-4: December 10, 2018; BAA is continuously open through November 9, 2019, unless announced otherwise. – Awards in each Technical Capability are anticipated subject to the quality of proposals received and the availability of funds.

New FY19 Office of Naval Research (ONR) Navy and Marine Corps Science, Technology, Engineering & Mathematics (STEM), Education and Workforce Program (link) – Mandatory White Papers Due April 1, 2019 - June 28, 2019; Invited Applications Due September 27, 2019 – ONR’s total STEM funding effort is $6,250,000 per year, subject to the availability of funds. Under this FOA competition, ONR intends to award approximately twenty-five (25) awards for a maximum of $250,000 per year for each award, with one-year (1) option periods for up to three (3) years.

New Naval Air Systems Command Digital Office (NDO) Office-wide Broad Agency Announcement (BAA) (link) – White Papers may be submitted anytime until November 18, 2019, or until replaced by a successor BAA – Multiple awards are anticipated. The level of funding for individual awards made under this solicitation have not been predetermined and
will depend on the quality of the white papers/proposals received and the availability of funds.

**New Congressionally Directed Medical Research Programs (CDMRP) Funding Opportunities (link)** – Amyotrophic Lateral Sclerosis Research Program – Due Dates and Awards Vary for Each Mechanism

**New Structural Integrity Research Collaborations for Aircraft (SIRCA) (link)** – White Paper Due October 23, 2023 – The Air Force anticipates multiple awards as a result of this solicitation, most likely as Cooperative Agreements. Awarded projects are anticipated to be 24 months in length, though different length projects may be proposed, with agreement values ranging from $50k-750k.

**ONR Special Program Announcement: Electronic Warfare Technology (link)** – White Papers Should Be Submitted by December 7, 2018 (White Papers are not required but strongly encouraged); Full Due February 28, 2019 – ONR plans to allocate $25-30M dollars for efforts related to the Technical Areas in this Special Notice. The period of performance for projects will be one to three (1-3) years.

**ONR National Oceanographic Partnership Program (NOPP) (link)** – Topics 1-2 Due December 21, 2018; Topics 3-7 due January 18, 2019 – Up to $27.3 million over three (3) years may be available for this solicitation, subject to appropriation, availability of funds and final approval by the participating NOPP agencies.

**AFRL/RXC Structural Materials Open BAA (link)** – White Papers may be submitted any time until September 20, 2023; Proposal Due Date to be provided in the Requests for Proposals sent to offerors – The total estimated program value is $99,500,000, with multiple awards ranging from $100,000 to $5,000,000.

**DoD USAMRMC FY18-FY22 Broad Agency Announcement for Extramural Medical Research Synopsis 1 (link)** – Continuously Open until September 30, 2022 – There are no specified funding limitations identified for a proposal/application submitted under this BAA. A budget should be commensurate with the nature and complexity of the proposed research.

**Research Initiatives at the Naval Postgraduate School Synopsis 2 (link)** – White Papers and Full Proposals may be submitted at any time until May 31, 2019 – The funded amount and period of performance of each proposal selected for award will vary depending on the research area and the technical approach to be pursued by the applicant selected.

**DOE**

**New Advanced Next-Generation High Efficiency Lightweight Wind Turbine Generator (link)** – Concept Paper Due December 13, 2018; Full Due January 21, 2019 – Budget Period 1: Up to three (3) awards, $500K each, 20% cost share Budget Periods 2 and 3; One (1) or more awards, up to $7.0M each, 20% cost share

**NIH**


New Limited Submission NIH Initiative for Maximizing Student Development (IMSD) (T32) (link) – Application Due February 22, 2019 – The number of awards is contingent upon NIH appropriations and the submission of a sufficient number of meritorious applications. Award Budget: Application budgets must reflect the actual needs of the proposed project.

New Enabling Technologies to Accelerate Development of Oral Biodevices (R21 Clinical Trial Not Allowed) (link) – LOI Due December 28, 2018; Application Due January 28, 2019 – NIDCR intends to commit $3 million in FY 2020 to fund 3-4 awards. Award Budget: The combined budget for direct costs for the two year project period may not exceed $275,000. No more than $200,000 may be requested in any single year.

New Enabling Technologies to Accelerate Development of Oral Biodevices (R01 Clinical Trial Not Allowed) (link) – LOI Due December 28, 2018; Application Due January 28, 2019 – NIDCR intends to commit $3 million in FY 2020 to fund 2-3 awards. Award Budget: Application budgets are not limited but need to reflect the actual needs of the proposed project.

New Medical Simulators for Practicing Patient Care Providers Skill Acquisition, Outcomes Assessment and Technology Development (R01 Clinical Trial Not Allowed) (link) – LOI Due 30 Days Prior to Application; Standard Due Dates: February 5, June 5, October 5 – The number of awards is contingent upon NIH appropriations and the submission of a sufficient number of meritorious applications. Award Budget: Application budgets are not limited but need to reflect the actual needs of the proposed project.

Limited Submission NIH Outstanding New Environmental Scientist (ONES) Award (link) – LOI Due 30 Days Prior to Application; Application Due February 27, 2018 – NIEHS intends to fund an estimate of 5-6 awards, corresponding to a total of $3.0 million, for each of fiscal years 2018, 2019, 2020. Future year amounts will depend on annual appropriations. Award Budget: The budget for direct costs is composed of two elements—research direct costs and career enhancement costs. For most applications, the budget for direct costs should be limited to $250,000 per year. With strong justification, research projects which have inherently higher costs may request direct costs of up to $400,000 per year. Career enhancement direct costs are limited to $250,000, which can be distributed over the 5-year award period. Note: the total direct cost budget (research plus career enhancement) may not exceed $475,000 in any year of the award. Note: Only one application per School or College within a University will be accepted.

BRAIN Initiative: Research on the Ethical Implications of Advancements in Neurotechnology and Brain Science (R01 Clinical Trial Optional) (link) – LOI Due 30 Days Prior to Application; Application Due February 4, 2019 and October 9, 2019 – Issuing IC and partner components intend to commit an estimated total of $3 million in FY2019 to fund up to 8 awards. Award Budget: Application budgets are limited to $300,000 in direct costs in any year project and need to reflect the actual needs of the proposed project.

Innovative Technologies for HIV Behavioral and Social Science Research (R41/R42 Clinical Trial Optional) (link) – Standard Due Dates: September 5, January 5, April 5 – According to statutory guidelines, total funding support (direct costs, indirect costs, fee) normally may not exceed $150,000 for Phase I awards and $1,000,000 for Phase II awards.

Innovative Technologies for HIV Behavioral and Social Science Research (R43/R44 Clinical Trial Optional) (link) – Standard Due Dates: September 5, January 5, April 5 – According to statutory guidelines, total funding support (direct costs, indirect costs, fee) normally may not exceed $150,000 for Phase I awards and $1,000,000 for Phase II awards.
**Novel Approaches for Relating Genetic Variation to Function and Disease (R01 Clinical Trial Not Allowed)** (link) – Standard Due Dates: February 5, June 5, October 5 – The number of awards is contingent upon NIH appropriations and the submission of a sufficient number of meritorious applications. Award Budget: Application budgets are not limited but need to reflect the actual needs of the proposed project.

**Novel Approaches for Relating Genetic Variation to Function and Disease (R21 Clinical Trial Not Allowed)** (link) – Standard Due Dates: February 16, June 16, October 16 – The number of awards is contingent upon NIH appropriations and the submission of a sufficient number of meritorious applications. Award Budget: The combined budget for direct costs for the two-year project period may be up to $275,000 (exclusive of subcontract F&A). Up to $200,000 may be requested in any single year.

**Synthetic Biology for Engineering Applications (R01 Clinical Trial Optional)** (link) – Standard Due Dates: February 5, June 5, October 5 – The number of awards is contingent upon NIH appropriations and the submission of a sufficient number of meritorious applications. Award Budget: Application budgets are not limited but need to reflect the actual needs of the proposed project.

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**New** Limited Submission Advanced Computing Systems & Services: Adapting to the Rapid Evolution of Science and Engineering Research (link) – Full Due March 4, 2019 – Estimated Number of Awards: 2 to 4. The length of the award may vary depending on the type of resource funded. However, in most cases, it is expected to be up to 5 years. The details are described in the section entitled Program Requirements and should be carefully considered. Anticipated Funding Amount: $5,000,000 to $10,000,000 per award. A total of $30,000,000 is available for this solicitation, subject to the availability of funds. It is anticipated that 1-2 awards will be made in Category I at up to $10,000,000 per award for up to five years and up to 1-2 awards in Category II at up to $5,000,000 per award for up to five years.

**New** Enabling Quantum Leap: Quantum Idea Incubator for Transformational Advances in Quantum Systems (QII - TAQS) (link) – LOI Due January 7, 2019; Prelim Due February 21, 2019; Full Due May 24, 2019 – Estimated Number of Awards: 18 to 20. Anticipated Funding Amount: $26,000,000. Anticipated funding amount is pending availability of funds. Each project team may receive support of up to a total of $2,000,000 over the project duration of 3 to 5 years. It is not expected that all awards will receive the maximum amount; the size of awards will depend upon the type of research program proposed. The budget must be commensurate with the scope of the project and thoroughly justified in the proposal.

**New** Ideas Lab: Cross-cutting Initiative in CubeSat Innovations (link) – Prelim Due February 8, 2019; Full Due May 30, 2019 – A CubeSat Innovation award is expected to be at the level of $750,000 - $1,000,000 per year for up to 4 years. Up to 2 awards are expected depending...
upon availability of funds and the type, scale, and variety of project ideas developed at the Ideas Lab.

**New** Spectrum Efficiency, Energy Efficiency, and Security (SpecEES): Enabling Spectrum for All ([link](#)) – Full February 13, 2019 – Approximately 12-15 awards are anticipated, each up to $750,000 total and up to 3 years in duration, subject to the availability of funds and quality of proposals received.

**New** CNH2: Dynamics of Integrated Socio-Environmental Systems (CNH2) ([link](#)) – 2018 Dates: LOI Due December 17, 2018; Full Due February 14, 2019 (2019 Dates: LOI Due September 17, 2019; Full Due November 15, 2019) – CNH2 will support research projects in three different categories: CNH2 Large Research Projects. Awards in this category provide two to five years of support for projects ranging in size from $750,001 to $1,600,000. CNH2 Small Research Projects. Awards in this category provide two to five years of support for projects ranging in size from $150,000 to $750,000. Research Coordination Networks (CNH2-RCNs). A CNH2-RCN may receive support for four or five years of activity at a level not to exceed $500,000-for the total budget over the duration of the project, including both direct and indirect costs.

**New** Dear Colleague Letter: EARly-concept Grants for Exploratory Research on Artificial Intelligence (AI) and Society - Supported Jointly with the Partnership on AI ([link](#))

**Limited Submission** NSF Cultivating Cultures for Ethical STEM (CCE STEM) ([link](#)) – Full Due February 22, 2019 – Estimated total annual funding amount is $3,150,000, subject to the availability of funds. The maximum amount for 5-year awards is $600,000 (including indirect costs) and the maximum amount for 3-year awards is $400,000 (including indirect costs). The average award is $275,000.

**NSF/CASIS Collaboration on Tissue Engineering and Mechanobiology on the International Space Station (ISS) to Benefit Life on Earth ([link](#))** – Due February 1 - February 15, 2019 – NSF Funding (total) available under this solicitation is up to $2.0 million to be distributed in FY 2019. Budget requests may be for up to $400,000 total, direct and indirect costs, and up to three years in duration.

**Algorithms for Threat Detection (ATD) ([link](#))** – Full Due February 19, 2019 – Estimated Number of Awards: 10 to 20; Anticipated funding amount is $3,000,000 annually. Estimated number of awards and funding amounts are subject to the availability of funds.

**Scalable Parallelism in the Extreme (SPX) ([link](#))** – Full Due January 17, 2019 – Approximately $10,000,000 will be made available in FY 2019 to support up to 10 awards with durations of 3-4 years and up to $3,000,000 per award.

**Partnerships for Innovation – Technology Translation (PFI-TT) ([link](#))** – Full Due January 17, 2019; July 10, 2019 – PFI-Technology Translation (PFI-TT) projects will be funded for up to $250,000 for 18-24 months per award; approximately 40-50 awards are anticipated. **Note:** There is no limit on the number of PFI-TT proposals an organization may submit to a deadline of this solicitation. However, an organization may not submit more than one (1) new or resubmitted PFI-Research Proposal (PFI-RP) to a deadline of this solicitation. The internal limited submission deadline for PFI-Research Proposals has passed.

**Big Data Regional Innovation Hubs (BD Hubs) Accelerating the Big Data Innovation Ecosystem ([link](#))** – Full Due December 18, 2018 – Up to four projects will be funded, each up to a maximum of $4,000,000 for up to 4 years, subject to the availability of funds and quality of proposals received.
**NSF/FDA Scholar-in-Residence at FDA** ([link](#)) – Full Proposals Accepted Anytime – Estimated program budget of $750,000, estimate of 5-10 awards, average award size and duration (varies with funding opportunity outlined in Section II. Program Description) are subject to the availability of funds and the quality of proposals.

**Requests for Information/Notices of Intent**

- **NIH Request for Information (RFI) on the Proposed Funding Priorities for Neuroscience Research, Input on Cross-Cutting Opportunities (NIH Neuroscience Blueprint)** ([link](#)) – Responses Due November 26, 2018
- **DOE Request for Information (RFI): Transformational Sensing Capabilities for Monitoring the Subsurface** (Search FedConnect for Reference Number DE-FOA-0001998) ([link](#)) – Responses Due December 3, 2018
- **IARPA Request for Information: Future Computing Systems** ([link](#)) – Responses Due December 14, 2018

**Student/Postdoctoral Opportunities**

- **NOAA FY19 Dr. Nancy Foster Scholarship Program** ([link](#)) – Applications Due December 17, 2018 – Nancy Foster Scholarships may provide, subject to appropriations, yearly support of up to $42,000 per student (a 12-month stipend of $30,000 in addition to an education allowance of up to $12,000) and up to $10,000 of support for a 4-6 week program collaboration at a NOAA facility.
- **NSF/FDA Scholar-in-Residence at FDA** ([link](#)) – Full Proposals Accepted Anytime – Estimated program budget of $750,000, estimate of 5-10 awards, average award size and duration (varies with funding opportunity outlined in Section II. Program Description) are subject to the availability of funds and the quality of proposals.

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This section contains resources, funding opportunities and seminars, events, and workshops of special interest to junior faculty. See **Seminars/Events/Workshops** below for more offerings.

### Junior Faculty Opportunities

#### Young Investigator Programs

[http://tees.tamu.edu/researchsupport/young-investigator-programs/](http://tees.tamu.edu/researchsupport/young-investigator-programs/)

Young Investigator Programs are for junior faculty who are untenured, Assistant Professors. Resources are available including CAREER/YIP workshops and seminars, proposal assistance, writing resources, and junior faculty targeted funding opportunities.

- **Junior Faculty Targeted Funding Opportunities** – This spreadsheet contains numerous funding opportunities for junior faculty in Engineering.
- **Young Investigator Awards** – This spreadsheet lists early career and young investigator awards (general list).

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### Funding Opportunities
**Save the Date**  
**Junior Faculty Proposal Writing Academy: NSF Broader Impacts & Education Plan Seminar & Expo**  
February 6, 2019  
1:00 p.m. - 5:00 p.m.  
ILSB Auditorium and Lobby  
Registration to come

**Junior Faculty Proposal Writing Academy**  
The TEES Research Development group and the Division of Research’s Research Development Services office have partnered to create the Junior Faculty Proposal Writing Academy. For more information, please visit [http://jfa.tamu.edu/](http://jfa.tamu.edu/).

**Additional Resources**  
**Facilities** – A list of facilities for each department in the College of Engineering is available on the TEES Research Development website. Faculty can use this list in creating facilities statements for multi-PI proposals.  
**NSF Broader Impacts Expo List of Resources** – A list of the organizations and resource representatives who participated in the NSF Broader Impacts Seminar and Expo.  
**Funding Opportunities Spreadsheet** – A spreadsheet of funding opportunities from past digests.  
**Education/Broader Impacts** – A list of resources available through EASA, College of Engineering, Texas A&M, and national resources.

**Proposers Days/Webinars**  
*(All times Central unless otherwise noted)*

**NSF Partnerships for Innovation Webinar**  
November 29, 2018 – 2:00 p.m. - 4:00 p.m. ET – [Information and Registration](#)  
December 13, 2018 – 2:00 p.m. - 4:00 p.m. ET – [Information and Registration](#)

**NSF Training-based Workforce Development for Advanced Cyberinfrastructure (CyberTraining) Webinar**  
November 26, 2018  
2:00 p.m. - 3:00 p.m. ET  
[Information and Registration](#)

**NSF CISE Community Research Infrastructure (CCRI) Webinar**  
November 27, 2018  
2:00 p.m. - 3:00 p.m. ET  
[Information and Registration](#)
NSF PAPPG Update Webinar 2019
November 27, 2018
2:00 p.m. - 3:00 p.m. ET
Information and Registration – Login information will be emailed to participants on Monday, November 26.

DOE SBIR/STTR SETO Topics Webinar
December 5, 2018
2:00 p.m. ET
Registration

Seminars/Events/Workshops for All Faculty
http://tees.tamu.edu/researchsupport/events/

STEM 4 Innovation Conference for K-12 Education
February 21-22, 2019
College Station – Lab tours are being held on February 21; Exhibitor Booths will be at the Texas A&M Hotel and Conference Center – Century Ballroom on February 22.
Information and Registration

Research News

Park Awarded Prestigious Grant for Pioneering Neuroscience Research

Dr. Sung II Park, assistant professor in the Department of Electrical and Computer Engineering at Texas A&M University, was recently awarded the 2018 NARSAD Young Investigator Award for his work to treat obesity using a novel approach.

Park is proposing to treat obesity by enhancing the activity of neural circuits in the brain that suppress appetite. This research would create a way to feel satisfied that is well beyond those of existing technologies.

“In the United States, one-third of adults are diagnosed with eating disorders such as obesity, which leads to profound debilitation for millions of people,” Park said. “The economic impact of these disorders is linked with direct medical costs, productivity costs, transportation costs and human capital costs. It is estimated that over $500 billion a year is spent in health care for eating disorders, and the burden on society is huge.”

To view the complete story, please visit the Engineering website.

Prepared by TEES Research Development under the auspices of the Associate Agency Director for Strategic Initiatives and Centers. For questions, email researchnews@tees.tamus.edu.