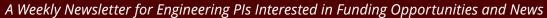
ENGINEERING RESEARCH DIGEST





Issue: October 14, 2020 Email: proposalsupport@tamu.edu

COVID-19 Updates & Opportunities

[Watch out for the Special Bi-Weekly COVID-19 Edition]

https://tees.tamu.edu/covid-19/index.html

COVID-19 Research Opportunities (NetID Login Required): Click Here

- *Virtual Office Hours: TEES Proposal Assistance* Mondays at 12:00-1:00 p.m. and Thursdays at 4:00-5:00 p.m. <u>Click Here</u>.
- Support available to assist with developing strong National Science Foundation Graduate Research Fellowships Program applications and National Defense Science and Engineering Graduate Fellow packages. Interested students can reach out to sharmila.pathikonda@tamu.edu.



Upcoming Events

For all events, registration, and information, please visit (link).

INTERNAL

Hanover Webinar Series: Developing Compelling Proposal Narratives - Click Here

October 16, 2020 10:00 a.m.

Managing Research Data: A Guide to Good Practice - Click Here

October 20, 2020 6:00 - 5:00 p.m.

2020 Mary Kay O'Connor Process Safety Symposium - Click Here

October 20-21, 2020

Industry Sponsored Research Virtual Panel - Click Here

October 21, 2020 3:00 - 4:15 p.m.

Write Winning NIH Grant Proposals Seminar - Click Here

October 28-29, 2020 8:30 - 12:00 p.m.

Zotero - Click Here

October 28, 2020 2:00 - 3:00 p.m.

NSF CAREER & Young Investigator Programs Workshop - Click Here

November 4, 2020 1:00 - 5:00 p.m.

NSF Proposal Supplementary Documents - Click Here

November 17, 2020 1:00 - 3:00 p.m.

Keeping your Research out of the "Data Dumpster" - Click Here

November 19, 2020 12:00 - 1:00 p.m.

Hanover Webinar Series: Good Ideas vs. Fundable Proposals - Click Here

November 20, 2020 10:00 a.m.

EXTERNAL .

2nd COSMOS Research Community Workshop - Click Here

October 14-15, 2020

How to Engage with the AFRL Research Ecosystem: International Edition - <u>Click Here</u>

October 15, 2020

New England National Lab Day Webinar Series: Transformative Manufacturing - Click Here October 15, 2020 2:00 – 4:00 p.m.

Fall 2020 NIH on Program Funding and Grants Administration - Click Here

October 27-30, 2020

NSF Virtual Grants Conference - Click Here

November 16-30, 2020

New England National Lab Day Webinar Series: STEM Education and Workforce Development for an Energy Efficient and Resilient Economy - Click Here

November 19, 2020 2:00 - 4:00 p.m.

New England National Lab Day Webinar Series: Nuclear Physics - Click Here

January 21, 2020 2:00 - 4:00 p.m.

New England National Lab Day Webinar Series: Terrestrial, Aquatic and Marine Interfaces - <u>Click</u> <u>Here</u>

February 18, 2020 2:00 - 4:00 p.m.



Funding Opportunities

A database with a more in-depth review of funding opportunities including details such as funding size, sponsor, and topic can be found <u>HERE</u>.

(Items denoted with: **LS** – Limited Submission, **JF** – Junior Faculty, **SPD** – Student or Postdoctoral)

Engineering News, Awards, Research Stories, and SoundBytes can be found HERE.

LIMITED SUBMISSIONS —

The Division of Research has implemented a brand new proposal submission and review portal. The system will be used for limited submissions and most internal grant programs (link).

CPRIT High-Impact/High-Risk Research Awards (HIHR) (link) - Internal Due: October 20, 2020.

J. Advancina BioImagina (link) - Internal Due: October 21, 2020.

JF Mitigating Zoonotic Threats (link) - Internal Due: October 21, 2020.

DOS Request for Statements of Interest (RSOI): Internet Freedom (link) – Internal Due: Limited Submissions.

CPRIT Texas Regional Excellence in Cancer Award (<u>link</u>) – **Internal Due:** October 28, 2020. A Texas A&M University Team is being formed. For more information please contact <u>kramos@tamu.edu</u>.

NIH Neuroscience Development for Advancing the Careers of a Diverse Research Workforce (R25 Clinical Trial Not Allowed) (link) – Internal Due: October 28, 2020.

NSF Partnerships for Innovation (link) – Internal Due: October 28, 2020.

NSF Major Research Instrumentation (MRI) Program: Instrument Acquisition or Development (<u>link</u>) – **Internal Due:** November 2, 2020.

NSF Louis Stokes Alliances for Minority Participation (link) - Internal Due: Limited Submissions.

NSF Harnessing the Data Revolution: Coordination Hub (HDR Central) (<u>link</u>) – Internal Due: <u>Limited Submissions.</u>

N	[FW -]	NTERNAL

T3: Round 4 (<u>link</u>) – **Full Due:** November 5, 2020. **Award**: \$30,000 and an additional \$2,000 to projects requesting to support the participation of undergraduate students.

_____ New – External _____

Department of Commerce (DOC)

NOAA Broad Agency Announcement (BAA) (link) – **Full Due:** Submissions accepted anytime before September 30, 2023. **Award**: Funding is contingent upon availability of FY21, FY22, and FY23 federal budgets.

Department of Defense (DOD)

FY2021 Long Range Broad Agency Announcement (BAA) for Navy and Marine Corps Science and Technology (link) – Full Due: September 30, 2021.

Broad Agency Announcement (BAA): Space and Terrestrial Communications Directorate (S&TCD) (link) - Full Due: June 19, 2023.

Department of Energy (DOE)

Request for Information (RFI) on Office of Energy and Renewable Energy's Medium-and-Heavy-Duty Truck Research and Development Activities and SuperTruck Initiative (link) – Responses Due: November 9, 2020 – DE-FOA-0002372.

Notice of Intent to issue DE-FOA-0002397 Titled University Turbine Systems Research (UTSR) – Focus on Hydrogen Fuels (link) – Responses Due: December 15, 2020

National Institutes of Health (NIH)

Cooperative Research Agreements Related to the World Trade Center Health Program (link) – Letter of Intent Due: November 6, 2020; Annually on November first until 2024 after. Full Due: December 8, 2020; December 7, 2021; December 6, 2022; December 5, 2023; December 10, 2024. Award: Varies based on requested period of project and Fiscal Year budget.

National Aeronautics and Space Administration

ROSES 2020: Extreme Precision Radial Velocity Foundation Science (link) – Full Due: Deadlines vary, see tables RFP for table. Award: Funding varies, see tables RFP for specific funding.

National Science Foundation (NSF)

Major Research Instrumentation (MRI) Program (<u>link</u>) – **Full Due:** Submission window January 1-19, 2021. **Award**: Up to \$4,000,000.

Cybersecurity Innovation for Cyberinfrastructure (CICI) (link) – Full Due: January 8, 2021. Award: Up to \$500,000.

Accelerating Research through International Network-to-Network Collaborations (AccelNet) (link) – Full Due: January 4, 2021; October 10, 2022. Award: \$10,000,000.

Partnerships for Research and Education in Materials (PREM) (link) – Full Due: February 5, 2021. Award: \$300,000-\$700,000 per year for 6 years.

Plant Genome Research Program (PGRP) (link) – **Full Due:** Proposals Accepted Anytime. **Award**: Up to \$5,000,000.

Mid-scale Research Infrastructure-1 (Mid-scale RI-1) (link) – Preliminary Due: January 7, 2021. Full Due: April 23, 2021 (*If invited*) Award: Varies based on "Implementation" or "Design" proposals.

Dear Colleague Letter: Request for Information on Future Topics for the NSF Convergence Accelerator (link)

Dear Colleague Letter: Non-Academic Research Internships for Graduate Students (INTERN) Supplemental Funding Opportunity (link)

• Frequently Asked Questions (FAQs) for Sustainable Regional Systems – NSF 21-011

Sloan Foundation

High Education – STEM & Education and Professional Advancement for Underrepresented Groups (link) – Full Due: Contact Program Director for Details. Award: up to \$3,500,000.

United States Agency of of International Development (USAID)

Broad Agency Announcement (BAA) for Sustainable Landscapes (link) – **Full Due:** Open Through September 24, 2022. **Award:** Organizations are encouraged to consider providing reasonable cost sharing, leverage, or other exchange of resource arrangements, and are encouraged to suggest creative approaches to resourcing projects.

W.M. Keck Foundation

Research Program (link) – **Full Due:** November 1, 2020; February 15, 2021 **Award:** Between \$500,000 and \$5,000,000.

INTERNATIONAL _____

Australian Research Council (ARC)

SPD National Competitive Grants Program (NCGP) - Discovery Program - Australian Laureate Fellowship

(<u>link</u>) - **Full Due:** November 4, 2020. **Award:** up to \$2,657,237.

Luxembourg National Research Fund

JF ATTRACT Programme (link) - Preliminary Due: November 13, 2021. Full Due: February 12, 2021. Award: Up to \$2,3640,400.

Volkswagen Foundation

JF SPD Freigest Fellowships (link) - Full Due: April 1, 2021. Award: Up to \$2,600,840.

German Research Foundation

JF SPD Reinhart Koselleck Projects (link) - Full Due: Proposals accepted anytime. Award: Up to \$2,600,840.

PREVIOUSLY NOTATED OPPORTUNITIES

LS CPRIT Core Facility Support Awards (CFSA) (link) – Internal Submission Deadline: October 14, 2020. Full Due: January 27, 2021.

NIH Cellular and Molecular Biology of Complex Brain Disorders (R21 Clinical Trial Not Allowed) (link) – Application Deadline: Standard dates apply, first date October 16, 2020.

LS CPRIT High-Impact/High-Risk Research Awards (HIHR) (link) - Internal Submission Deadline: October 20, 2020. Full Due: January 27, 2021.

NIH Mechanisms of Selective Vulnerability in LBD and FTD (R01 Clinical Trial Not Allowed) (link) – Application Deadline: October 27, 2020.

LS NSF Partnerships for Innovation (link) – Internal Due: October 28, 2020. Full Due: January 13, 2021.

LS JF CPRIT Texas Regional Excellence in Cancer Award (link) – Internal Submission Deadline: October 28, 2020. Full Due: January 27, 2021. – A Texas A&M University Team is being formed. For more information please contact kramos@tamu.edu.

LS NIH Neuroscience Development for Advancing the Careers of a Diverse Research Workforce (R25 Clinical Trial Not Allowed) (link) – Internal Due: October 28, 2020. Application Due: January 25, 2021.

LS NSF Major Research Instrumentation (MRI) Program: Instrument Acquisition or Development (link) – Internal Due: November 2, 2020. Full Submission Window: January 1 – January 19, 2021.

NIH Innovative Research in Cancer Nanotechnology (IRCN) (R01 Clinical Trial Not Allowed) (link) – Application Deadline: November 4, 2020.

NSF/VMware Partnership on the Next Generation of Sustainable Digital Infrastructure (NGSDI) (link) – Full Deadline: November 4, 2020.

NSF International Research Experiences for Students (IRES) (link) – Full Deadline(s): November 9, 2020 (Track II: Advanced Studies Institutes) November 12, 2020 (Track I: IRES Sites).

DOD Rare Cancers Research Program (RCRP) Idea Development Award (link) – **Pre-Application Due:** November 12, 2020. **Application Due:** November 30, 2020.

DOD Rare Cancers Research Program (RCRP) Concept Award (<u>link</u>) – **Pre-Application Due:** November 12, <u>20</u>20. **Application Due:** November 30, 2020.

LS NSF Harnessing the Data Revolution: Coordination Hub (HDR Central) (link) – Internal Submission Deadline: Limited Submissions. Full Deadline: November 12, 2020.

NSF CISE Community Research Infrastructure (CCRI) (link) – Letter of Intent Due: December 15, 2020. Full Due: January 28, 2021.

DOC FY 2021 Implementation of the U.S. Integrated Ocean Observing System (IOOS) (link) – Full Due: December 31, 2020.

NSF Sustainable Regional Systems Research Networks (SRS RNs) (link) – Full Due: January 11, 2021.NIH DOD BAA – DLASM – 2019-01 National Defense Stockpile (link) – Full Due: March 31, 2022.

Modules for Enhancing Biomedical Research Workforce Training (R25 Clinical Trial Not Allowed) (link) – Application Due: June 18, 2021.

NIH Notice of Special Interest (NOSI): Innovative Technologies to Improve Assessments, Interventions, and Outcomes for Individuals with Intellectual and Developmental Disabilities (R43/R44) (link)

NIH Notice of Special Interest (NOSI): Mechanisms of Mycobacterial-Induced Immunity in HIV-Infected and/or Uninfected Individuals to Inform Innovative Tuberculosis Vaccine Design (link)

NSF Computational and Data-Enabled Science and Engineering (CDS&E) (link) – Full Due: Deadlines vary based on directorate – PD 20-8084

NSF Windows on the Universe: The Era of Multi-Messenger Astrophysics (WoU-MMA) (link) - Full Due:

Deadlines vary based on directorate - PD 18-5115

USDA Agriculture and Food Research Initiative - Foundational and Applied Science (<u>link</u>) – Due Dates and Funding Amount depend on the Program Areas (see RFA).



Junior Faculty Opportunities

CURRENT & FUTURE ——

NEW LNRF ATTRACT Programme (link) – **Preliminary Due:** November 13, 2021. **Full Due:** February 12, 2021. **Award:** Up to \$2,3640,400.

NEW Freigest Fellowships (link) - Full Due: April 1, 2021. Award: up to \$2,600,840.

Award: Up to \$500,000 (24-month base period; additional \$500,000 12-month option period after).

Johnson & Johnson Scholars Award Program: Women in STEM²D (WiSTEM2D) (link) – **Application Due:** October 15, 2020. **Award:** \$50,000 per year for up to 3 years.

LS Scialog Advancing BioImaging (<u>link</u>) - **Internal Due:** October 21, 2020. **Full Due:** November 6, 2020. **Award:** \$50,000.

Scialog Mitigating Zoonotic Threats (link) – Internal Due: October 21, 2020. Full Due: November 6, 2020. Award: \$50,000.

DARPA Young Faculty Award (YFA) (link) – **Executive Summary Due:** October 26, 2020. **Full Due:** January 8, 2021.

2021 Simons Early Career Investigator in Marine Microbial Ecology and Evolution Awards (link) – Reference Letters Due: October 30, 2020. Letter of Intent Due: November 5, 2020. Full Due: February 19, 2021. Award: \$222,000 per year for 3 years.

Young Investigators Programs (link)

Junior Faculty Targeted Funding Opportunities (link)

Young Investigator Awards (link)

DeBakey Executive Research Leadership Program (link) – This unique program trains junior faculty, postdocs and doctoral students to successfully lead a multifaceted high-end research operation, convey critical skills to lead, manage, and direct students and staff at all levels.

Funds are available to help Assistant Professors in visiting funding agency program officers at DoD, DoE, NSF, DARPA, etc., when they are ready. Readiness will be assessed by Dr. Z.J. Pei based on a justification statement submitted by the faculty member, including expertise, experience, and research ideas. TEES will pay up to half of the cost of travel to Washington, D.C., for an approved Assistant Professor. Please contact Dr. Z.J. Pei, TEES Director of Research Development, at zipei@tamu.edu for more information.



Student/Postdoctoral Opportunities

CURRENT & FUTURE —

NEW ARC National Competitive Grants Program (NCGP) – Discovery Program – Australian Laureate Fellowship (link) – Full Due: November 4, 2020. Award: up to \$2,657,237.

2021 FAA Challenge: Smart Airport Student Competition (Anticipated) (link) – Full details available on October 15, 2021.

NSF Astronomy and Astrophysics Postdoctoral Fellowship (link) – Full Due: October 15. Award: \$900,000. *NSF Graduate Research Fellowship Program (GRFP)* (link) – Full Due: October 20, 2020 (CISE), October 21, 2020 (ENGR). Award: \$34,000 USD stipend is provided to help with living expenses for 12-month period prorated in whole month increments of \$2,833.

IBM PhD Fellowship Award (link) – **Nominations Due:** October 23, 2020. **Award**: U.S. awards \$60,000 for year one, \$35,000 for year two. *Nominees must be nominated by a doctoral faculty member and be a full-time*

student over two consecutive academic years.

Gonville & Caius College Research Fellowships 2021 (link) – Full Due: October 30, 2020. Award: Up to \$28,794 stipend, housing assistance for non-residents, and up to \$1178 reimbursement of some research expenditures.

Sandia National Laboratories President Harry S. Truman Fellowship in National Security Science and Engineering (link) – Application Due: November 1, 2020. Award: Salary of \$111,200.

NASA Space Technology Research Grants Program, NASA Space Technology Graduate Research Opportunities - Fall 2021 (NSTGR021) (link) - Full Due: November 2, 2020. Award: Up to \$80,000 per year. Award is contingent on the number of years left in the student's degree program.

FY 2021 DOD National Defense Science and Engineering Graduate Fellowship Program (NDSEG) (link) – **Full Due:** November 2, 2020. **Award**: Up to \$38,400 stipend per year for three years as well as tuition (excluding room and board), fees, benefits up to \$1,200, and up to \$5,000 for a travel budget to be used on professional development.

BRAIN Initiative Fellows: Ruth L. Kirschstein National Research Service Award (NRSA) Individual Postdoctoral Fellowship (F32) (link) – Letter of Intent Due: November 9, 2020. Full Due: December 9, 2020. Award: The BRAIN Initiative intends to commit up to \$1.5 M per year in fiscal years 2021-2023 to fund an estimate of 20 awards per year. Individuals may receive up to 5 years of aggregate Kirschstein-NRSA support at the Award budgets are composed of stipends, tuition and fees, and institutional allowance.

NIH NCI Predoctoral to Postdoctoral Fellow Transition Award (F99/K00 Clinical Trial Not Allowed) (link) – **LOI Due:** 30 days prior to application due date. **Application Due:** November 18, 2020 **Award**: For the F99 phase, award budgets are composed of stipends, tuition and fees, and institutional allowance, as described below. For the K00 phase, award budgets are composed of salary and fringe benefits, tuition and fees, research and career development support, and indirect costs.

Government of Ireland Postdoctoral Fellowship (<u>link</u>) – **Full Due:** November 19, 2020. **Award:** Up to \$36,850 annual salary.

Science, Mathematics, and Research for Transformation (SMART) Scholarship (link) – Application Due: December 1, 2020. Award: Full tuition and education related educational expenses (meal plans, housing, and parking not included), stipend paid at a rate of \$25,000 - \$38,000 a year depending on degree level (may be prorated depending on award length), Summer research internships ranging from 8 to 12 weeks, health insurance allowance of up to \$1,200 per academic year, miscellaneous allowance of up to \$1,000 per academic year, an experience mentor at one of the Sponsoring Facilities, potential employment placement at a DoD facility upon degree completion.

Ford Foundation Postdoctoral Fellowship (link) – **Application Due:** December 10, 2020. **Award**: One year stipend of \$50,000.

Ford Foundation Dissertation Fellowship (link) – **Application Due:** December 10, 2020. **Award**: One year stipend of \$28,000.

Ford Foundation Predoctoral Fellowship (link) – **Application Due:** December 17, 2020. **Award**: Annual stipend of \$27,000 per year for three years.

Gertrude M. Cox Scholarship (link) – **Application Due:** February 23, 2021. **Award**: Two scholarship recipients are selected each year: one to a woman in or entering the early stages of graduate training (MS or PhD) and one to a woman in a more advanced stage of training. Scholarship recipients receive a certificate and \$1,000.

(Anticipated) Adobe Research Women in Technology Scholarship for UG and GR Students (link) – Award: A \$10,000 award paid once. A Creative Cloud subscription membership for one year. An Adobe Research mentor. An opportunity to interview for an internship at Adobe.

(Anticipated) L'Oreal USA for Women in Science Fellowship Program (link) - Award: \$60,000.

DHS Post-Graduate Research Scientists in Threat Detection Technology (link) – **Award**: \$80,000. Based on academic level and experience, health insurance, and relocation allowance up to \$2000.

Apple Scholars in AI/ML (link) – Selected PhD students will receive support for their research and academic travel for two years, internship opportunities, and a two-year mentorship with an Apple researcher in their field. The PhD fellowship in AI/ML is currently open to invited institutions. For more information, please email aiml scholars@apple.com.

Sandia National Laboratories Internships (<u>link</u>) – Internships provide students: Opportunities to work on challenging projects at competitive pay, academic credits for some co-op and other internships, research mentoring from top scientists and engineers, training and practical work experience using state-of-the-art

equipment and instruments. Multiple internship periods available, application due date dependent on dates of internship period. Inquire on Sandia job board for specific opportunities and dates.

Research Scientists in Threat Detection Technology (link) –**Award**: Stipend starting at \$80,000 based on your academic level and experience, health insurance allowance, relocation allowance up to \$2,000, if you are located more than 50 miles one way from the hosting facility. Appointments are for a year with the option to extend the appointment for additional years. Extensions are contingent upon project needs and funding availability. The maximum time a participant can remain in the ORISE program is five years from his/her initial start date.

DeBakey Executive Research Leadership Program (link) – This unique program trains junior faculty, postdocs and doctoral students to successfully lead a multifaceted high-end research operation, convey critical skills to lead, manage, and direct students and staff at all levels.

NEW! Support now available to assist with developing strong **National Science Foundation Graduate Research Fellowships Program** applications and **National Defense Science and Engineering Graduate Fellow** packages. Interested students can reach out to sharmila.pathikonda@tamu.edu.

Available Proposal Support:

- Proofreading, editing, and reviewing personal essay & research proposal
- Graphics
- BAA alignment check
- Subject matter expert review



Resources

- NSF Broader Impact Expo List of Resources (<u>link</u>)
- Funding Opportunities Spreadsheet (<u>link</u>)
- Facilities (link)
- Education/Broader Impacts Requirements (link)
- UIDP Conversations Podcast (link)

. TEES RESEARCH DEVELOPMENT – PROPOSAL DEVELOPMENT SERVICES 🗕

- NSF CAREER workshops geared towards supporting junior faculty
- Proofreading, editing, and rewriting to refine project narratives and summaries
- Graphics
- Quality Check proposal packages for completion and compliance
- Format and update supplementary documents to have cohesive appearance on large proposals
- Develop checklists based on the solicitation
- Develop templates for supplementary documents and draft budget justification
- Serve as liaison between SRS and subcontractors

RESEARCH DEVELOPMENT TEAM

Dr. Sharmila Pathikonda, Trevor Moran, Amber Mastrobattista, and Dr. Sindhu Jose
CONTACT US

proposalsupport@tamu.edu (979) 458-9282

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