



GRANTS ESSENTIALS & COVID-19 FUNDING OPPORTUNITIES

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Station

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Sarah provides grant review, writing and project design services for clients around the country including major post-secondary institutions and academic research institutions. Sarah predominantly works on health-related proposals supporting a variety of investigators including physicians, nurse researchers, pharmacists, medical faculty, and basic scientists. Her areas of expertise include clinical and translational science, patient-centered outcomes research and program development and evaluation. Prior to coming to Hanover, Sarah accumulated a decade of grant writing experience at two large academic health sciences centers. While at Hanover, Sarah has added successful state and foundation proposals to her experience with agencies such as DOD, NIH (P01, R01, R03, R15, R21, R25, R37, U01 and U54), HRSA (R40), PCORI, CDC, AHRQ, and ED.

GRANTS ESSENTIALS

Federal Agencies & COVID-19 Opportunities for Engineering

- National Science Foundation
- Department of Defense
- National Aeronautics & Space Administration
- Department of Energy
- National Institutes of Health
- Other Federal Agencies and Foundations
- Q&A



COVID-19 FUNDING POLICIES AND OPPORTUNITIES

NATIONAL SCIENCE FOUNDATION



NSF GOALS

*NSF's goals:
“discovery,
learning,
research
infrastructure
and
stewardship.”*

NSF SEEKS TO:

- Advance the frontiers of knowledge
- Cultivate a world-class, broadly inclusive science and engineering workforce
- Expand the scientific literacy of all citizens
- Build the nation's research capability through investments in advanced instrumentation and facilities
- Support excellence in science and engineering research and education through a capable and responsive organization

COVID-19 FUNDING OPPORTUNITIES

Announcement	Description	Deadline
<u>Dear Colleague Letter on COVID-19</u>	<p>Encourages research community to respond through existing NSF opportunities via the RAPID funding mechanism for COVID-19 topics.</p>	<p>Varies by NSF Program</p>
<u>Dear Colleague Letter: Provisioning Advanced Cyberinfrastructure to Further Research on COVID-19</u>	<p>Invites RAPID proposals and supplemental funding requests to existing awards that address COVID-19 challenges through data and/or software infrastructure development activities.</p>	<p>Varies by NSF Program</p>

DEPARTMENT OF DEFENSE



MISSION-DRIVEN FUNDER

Research funded by the DoD must advance the real-world mission of the agency.

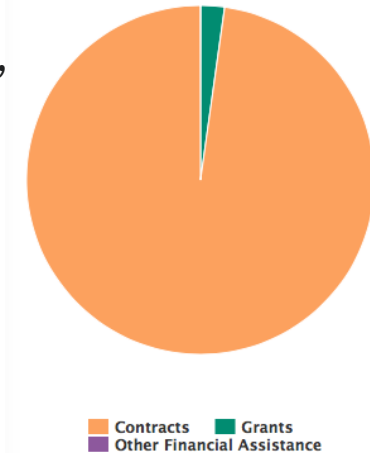
A MISSION-DRIVEN AGENCY FUNDS RESEARCH IN SERVICE OF SPECIFIC APPLIED OBJECTIVES.

- The mission of the Department of Defense is to provide the military forces with what is needed to deter war and to protect the security of our country.
- DoD funds a wide variety of research projects, not just work superficially related to warfighting (e.g., DoD is the second largest federal funder of health-related research).
- Funding priorities change rapidly as agency needs change.
- Networking and conversation are essential to funding success.

DEPARTMENT OF DEFENSE

THE LARGEST FUNDER

- DoD provides support for our military forces to deter war and protect the security of the U.S. through five major areas: (1) peacekeeping, (2) war-fighting, (3) homeland security, (4) evacuation and (5) humanitarian causes. (<http://www.dod.gov>)
- Each agency has its own mission priorities (e.g., Army, Navy, Air Force, NSA, CDMRP, DARPA, etc.)
- Largest federal agency in terms of personnel, subordinate agencies, and budget
 - ~2.8M employees worldwide
 - ~20% of the U.S. federal budget (~\$1.2T per year)



GRANTMAKING AGENCIES

DoD is a large and complex organization. Get to know the relevant offices for your work.

KEY DOD GRANTMAKING AGENCIES

- Air Force Office of Scientific Research (AFOSR)
- Army Research Laboratory / Army Research Office (ARL/ARO)
- Congressionally Directed Medical Research Programs (CDMRP)
- Defense Advanced Research Projects Agency (DARPA)
- Office of Naval Research (ONR)

UNDERSTAND THE PRIORITIES

Priorities at DoD change quickly and are not always articulated in published materials.

LISTEN, LEARN, AND NETWORK TO UNDERSTAND AGENCY PRIORITIES.

- Read published materials.
 - Websites and other publications.
 - Grant solicitations (BAAs, RFPs)
- Talk to colleagues.
 - Identify trends.
- Talk to DoD staff members.
 - Identify emerging priorities.

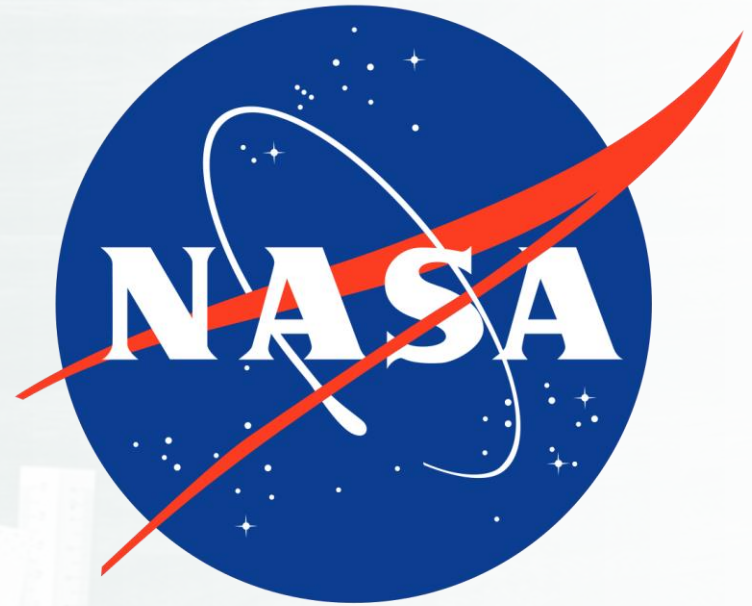
COVID-19 FUNDING OPPORTUNITIES

Program	Description	Deadline
COVID-related “Emerging Viral Diseases and Respiratory Health”	This is a suite of medical research tracks through CDMRP in the areas of (1) clinical trials , (2) investigator-initiated research , and (3) technology/therapeutic development . A total of 13 large-scale research awards will be distributed.	Pre-applications due May 28 or June 8, 2020; Full proposals due June 12 or June 22, 2020
DOD Army Prototype Development to Combat COVID-19	A <i>potential</i> request for project proposals for technologies such as point-of-care testing, therapeutics, and patient tracking systems.	Projected Mid-2020

COVID-19 FUNDING OPPORTUNITIES

Program	Description	Deadline
DOD Air Force <u>Small Business Innovation Research (SBIR) Program</u>	University researchers may serve as subcontractors for any small business' commercializable R&D pertaining to AF-related COVID-19 topics.	April 30, 2020 (original deadline) <i>Projected</i> re-release late 2020
DOD Army <u>National Emergency Telecritical Care Network (NETCCN) Project for Coronavirus</u>	A <i>pre-announcement</i> for proposals to rapidly develop and deploy the National Emergency Telecritical Care Network: a cloud-based, low-resource, stand-alone health information management system.	<i>Projected</i> mid-May, 2020

NATIONAL AERONAUTICS & SPACE ADMINISTRATION



NATIONAL AERONAUTICS & SPACE ADMINISTRATION

MISSION & GOALS

*NASA seeks
to support
research in
science and
technology*

Mission

- Enable a safer, more secure, efficient, and environmentally-friendly air transportation system through aeronautics research
- Explore the Earth-Sun system, our own solar system, and the universe
- Develop crosscutting, advanced, and pioneering new technologies needed for current and future missions, benefiting the aerospace industry and other agencies, and addressing national needs

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

MISSION & GOALS

*NASA grants
fund research
related to
these four
goals*

Strategic Goals

- Expand human knowledge through new scientific discoveries
- Extend human presence deeper into space and to the Moon for sustainable long-term exploration and utilization
- Address national challenges and catalyze economic growth
- Optimize capabilities and operations
- [2020 Strategic Plan](#)

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

COVID-19 POLICY

ALERT TO NASA PROPOSERS AND GRANT RECIPIENTS ABOUT COVID-19:

NASA is announcing the availability of short-term administrative relief authorized by the Office of Management and Budget for proposers and recipients of Federal financial assistance directly impacted by the Novel Coronavirus (COVID-19). [Memorandums M-20-17 and M-20-20](#)

To review NASA's implementation of M-20-17 and a list of frequently asked questions, please use the following links:

- [NASA's implementation of M-20-17 COVID-19](#)
- [Frequently Asked Questions – COVID-19](#)

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

COVID-19 FUNDING OPPORTUNITIES

Announcement	Description	Deadline
<u>Program Element A.28 "Rapid Response and Novel Research in Earth Science" (RRNES) of Research Opportunities in Space and Earth Sciences (ROSES) 2020</u>	Making innovative use of NASA satellite data to address regional-to-global environmental, economic, and/or societal impacts of the COVID-19 pandemic. Studies utilizing Artificial Intelligence (AI) techniques including Machine Learning (ML) and Deep Learning (DL) are encouraged.	<u>Table 2 lists and links to all program elements in due date order as amended</u>

DEPARTMENT OF ENERGY



MISSION & VISION

- In existence since 1977, the Department traces its lineage to the Manhattan Project effort to develop the atomic bomb during World War II and to the various energy-related programs that previously had been dispersed throughout various federal agencies.
- The mission of the Energy Department is to ensure America's security and prosperity by addressing its energy, environmental, and nuclear challenges through transformative science and technology solutions.

COVID-19 FUNDING OPPORTUNITIES

Program	Description	Deadline
<u>Dear Colleague Letter Encourages scientific questions that underpin COVID-19</u>	Response that the research community may answer using DOE user facilities, computational resources, and enabling infrastructure.	Rolling
<u>COVID-19 High Performance Computing Consortium</u>	Invites researchers to submit COVID-19 related research proposals to the consortium, which will then be reviewed for matching with computing resources.	Rolling

COVID-19 FUNDING OPPORTUNITIES

Program	Description	Deadline
<u>Oak Ridge National Laboratory: Rapid Access for COVID-19 Research (DOE)</u>	Basic Energy Sciences advanced neutron sources will provide remote rapid access to advanced user facilities to support research into the COVID-19 virus and the search for effective diagnostics and therapies.	Accepted at any time.

NATIONAL INSTITUTES OF HEALTH



NIH MISSION

To seek fundamental knowledge about the nature and behavior of living systems and the application of that knowledge to enhance health, lengthen life, and reduce illness and disability

NIH AGENCY GOALS

Improve
health,
disease
prevention,
expand
knowledge,
responsible
conduct of
research

- To foster fundamental creative discoveries, innovative research strategies, and their applications as a basis for ultimately protecting and improving health;
- To develop, maintain, and renew scientific human and physical resources that will ensure the nation's capability to prevent disease;
- To expand the knowledge base in medical and associated sciences in order to enhance the nation's economic well-being and ensure a continued high return on the public investment in research; and
- To exemplify and promote the highest level of scientific integrity, public accountability, and social responsibility in the conduct of science

COVID-19 FUNDING OPPORTUNITIES

Program	Description	Deadline
<u>Notices of Special Interest</u>	<p>Many NIH ICs have announced supplemental and/or emergency research funding including NIEHS, NIAID, NHGRI, NIBIB, and NIGMS.</p>	<p>Varies by IC (from May 2020 to late 2021)</p>
<u>Cyber-Physical Systems: SARS-CoV-2 Track (NIH)</u>	<p>The NIH, in partnership with the NSF and various federal agencies, uses this program to fund research pertaining to cyber-physical systems, engineered systems that are built from, and depend upon, the seamless integration of computation and physical components.</p>	<p>Proposals are due by June 22 or December 2, 2020, depending on track.</p>

COVID-19 FUNDING OPPORTUNITIES

Program	Description	Deadline
<u>Development of Biomedical Technologies for Coronavirus Disease 2019 (COVID-19)</u>	The NIBIB is seeking applications to develop life-saving technologies for COVID-19 that can be ready for commercialization within one to two years	June 5 through 16, 2020 (varies by track; R01, R21, R03)
<u>Fast-Track Program for COVID-19 Test Development and Distribution (NIH NIBIB)</u>	Up to \$500 million across multiple projects to rapidly produce innovative SARS-CoV-2 diagnostic tests that will assist the public's safe return to normal activities.	Proposals are accepted at any time.

COVID-19 FUNDING OPPORTUNITIES

Program	Description	Deadline
<u>R01, R21, SBIR/STTR for COVID-19</u>	Three of the largest NIH parent/umbrella funding mechanisms have now been updated to indicate that applications pertaining to COVID-19 research are welcomed.	Standard dates (rolling / tri-annual) for <u>R01</u> , <u>R21</u> , <u>SBIR/STTR</u>



OTHER FEDERAL AND PRIVATE FUNDERS

COVID – 19 Opportunities

OTHER FEDERAL & PRIVATE FUNDERS

COVID-19 FUNDING OPPORTUNITIES

Program	Description	Deadline
<u>MIT Solve</u>	Tech innovations that can slow and track the spread of an emerging outbreak. The initial grant amount is \$10,000, with the possibility for larger awards in later phases.	June 18, 2020
<u>Booz Allen Foundation Innovation Fund</u>	\$1 million Innovation Fund to harness the power of data, technology, and diverse intellectual capital to improve COVID-19 relief efforts and make a difference. Grants are up to \$100,000.	June 5, 2020

OTHER FEDERAL & PRIVATE FUNDERS

COVID-19 FUNDING OPPORTUNITIES

Program	Description	Deadline
<u>Emergent Ventures Fast Funding for COVID-19 Science</u>	Applicants must be a PI at an academic institution; already working on a project that could help with the COVID-19 pandemic within the next six months; and in need of additional funding to complete the project. Grants are up to \$500,000, and decisions are made in under 48 hours.	Applications accepted at anytime

OTHER FEDERAL & PRIVATE FUNDERS

COVID-19 FUNDING OPPORTUNITIES

Program	Description	Deadline
<u>CoVent-19 Challenge</u>	Open innovation eight-week Grand Challenge for engineers, innovators, designers, and makers to create respirator models.	May 1, 2020 (first round), expecting future rounds
<u>AI Techniques to Mitigate Pandemic</u>	Microsoft, C3.ai, and various universities have announced an RFP for using data analytics and AI methods to research COVID-19.	May 1, 2020, expecting future rounds

OTHER FEDERAL & PRIVATE FUNDERS

COVID-19 FUNDING OPPORTUNITIES

Program	Description	Deadline
<u>Google Cloud Research Credits</u>	A total of \$20 million in Google Cloud research credits will be provided for leveraging Google's computing capabilities and infrastructure to study therapies, vaccines, etc.	Rolling
<u>Amazon AWS Diagnostic Development Initiative</u>	Amazon has announced \$20 million to provide technical support and AWS promotional credits for existing AWS customers to advance diagnostic research.	Rolling

OTHER FEDERAL & PRIVATE FUNDERS

COVID-19 FUNDING OPPORTUNITIES

Program	Description	Deadline
<u>Microsoft AI for Health COVID-19 Program</u>	Provides Azure cloud and High-Performance Computing capabilities; AI for Health also open to collaborations with COVID-19 researchers.	June 15, 2020
<u>Moore Foundation</u>	Supports work to develop & validate new measures for diagnostic performance, working to both minimize barriers for innovation and advocate for safe deployment of technologies.	June 30, 2020

QUESTIONS?





Thank you.

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