



Funding Update: Large Federal Funding Opportunities

Lewis-Burke Associates, LLC – July 15, 2021

This document provides information on the status and timing of flagship funding opportunities across federal agencies. For agencies that do not have signature, cross-cutting opportunities, such as the National Institutes of Health (NIH), details are provided for large center and center-like awards. Please contact Lewis-Burke for further information on the opportunities below, additional opportunities in relevant fields, and to discuss strategies to pursue these opportunities.

Please note that this update includes many of the new activities and initiatives supported by the Biden Administration. It is possible that there will be additional opportunities in 2021 that emerge through congressional and Administration action including U.S. Competitiveness legislation and a potential Infrastructure package. Lewis-Burke will provide additional information when it becomes available.

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Department of Defense (DOD)

Type	Information on Future Solicitations	Additional Information
<p>Multidisciplinary University Research Initiatives (MURI) Program DOD's MURI program provides \$1.25 million to \$1.5 million over a three-year award period to (25) research topics of interest to the Services. Research topics vary by year and are submitted by the Services' research offices.</p>	<p>The MURI program utilizes annual broad agency announcements (BAA). The FY 2022 MURI BAA was released in March 2021, and white papers were due on June 7, 2021.</p> <p>The full FY 2022 MURI solicitation issued by each Military Service is available at www.grants.gov by searching "N00014-21-S-F004" (Navy), "W911NF-21-S-0008" (Army), and "FOA-AFRL-AFOSR-2021-0003" (Air Force).</p> <p>The next MURI competition is expected to be issued in March 2022.</p>	<p>More information available at https://www.onr.navy.mil/en/Education-Outreach/Sponsored-Research/University-Research-Initiatives/MURI.</p>
<p>Vannevar Bush Faculty Fellowship (VBFF) program Five-year fellowship with up to \$3 million for research with potentially extraordinary outcomes; will fund transformative, high-risk basic research in scientific areas of critical importance to DOD.</p>	<p>The FY 2022 solicitation is expected to be released in July 2021 with white papers due late August 2021.</p> <p>The full solicitation will be issued on grants.gov. The previous FY 2021 solicitation (for reference) can be found on www.grants.gov under solicitation number "N00014-20-S-F006".</p>	<p>More information available at https://basicresearch.defense.gov/Programs/Vannevar-Bush-Faculty-Fellowship/.</p>
<p>Air Force Centers of Excellence (COEs) While not a regularly released solicitation, the Air Force utilizes COEs to pursue topics of significant benefit to their mission. There are currently seven Air Force COEs.</p>	<p>AFRL Rome has congressional funding to establish a Quantum COE in FY 2021.</p> <p>There are also Congressional funds for a SPACE UARC that is expected be a COE or consortium.</p> <p>There is no information currently available on future plans for AFOSR COEs.</p>	<p>More information on Air Force Research COEs is available at https://community.afosr.org/wg/afosr/w/researchareas/24446/centers-of-excellence/.</p>
<p>Army Research Laboratory (ARL) Collaborative Technology and Research Alliances (CTA/CRA) ARL releases these solicitations on an ad hoc basis to address specific technology needs.</p>	<p>ARL posted a pre-release FOA for a High Throughput Materials Discovery for Extreme Conditions CTA in May 2021. The official announcement is expected very soon. The CTA is expected to run for 10 years, with approximately \$5 million per year. White papers are due on August 15, 2021. Full proposals by invitation only are due on October 30, 2021, by 3:00pm EST.</p> <p>In addition, Lewis-Burke anticipates three additional CRAs to be released in FY 2022 on topics of</p>	<p>More information available at https://www.arl.army.mil/business/collaborative-alliances/.</p>

	<ul style="list-style-type: none"> • Convergent Manufacturing for High Performance Material Interfaces • Fundamentals for Quantum Technologies • Tactical Behaviors for Autonomous Maneuver <p>More information can be found on www.grants.gov under solicitation number “W911NF-21-S-0013”</p>	
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Department of Education (ED)

Type	Information on Future Solicitations	Additional Information
<p>National Research and Development Centers</p> <p>The most recent competition ran in 2021, with focus research areas of improving rural education and writing in secondary schools.</p>	<p>The ED Institute of Education Sciences (IES) National Center for Education Research (NCER) competes center-level competitions on an irregular basis. The R&D Centers program aims to provide national leadership in a focused area of research and advance evidence-based practice and policy. Recent competitions have ranged from \$5 million to \$10 million, five-year awards. Education Research and Development Center competition will not be competed for the FY 2022 cycle.</p>	<p>More information available at https://ies.ed.gov/nceer/projects/program.asp?ProgID=13.</p>
<p>Special Education Research and Development Centers</p> <p>This competition was last held in 2012.</p>	<p>Like the NCER National R&D Centers, this competition runs on an irregular basis, but supports special education research centers, which aim to provide national leadership in specific research topics. Awards are generally for five years, ranging \$1 million to \$2 million.</p>	<p>More information available at https://ies.ed.gov/nceer/RandD/.</p>
<p>Regional Educational Laboratories</p> <p>This competition was last held in February 2021.</p>	<p>IES supports ten Regional Educational Laboratories (RELs), which work in partnership with school districts, state departments of education, and other educational stakeholders to use data and research to improve academic outcomes for students. Awards are generally for five years, ranging \$4 million to \$6 million. FY 2021 applications are currently under review for nine of ten REL five-year contracts.</p>	<p>More information available at https://ies.ed.gov/nceer/edlabs/.</p>
<p>Artificial Intelligence (AI) Institutes</p> <p>This competition is anticipated</p>	<p>IES has notified its intent to support utilizing American Rescue Plan (ARP) funds an interagency agreement with NSF for up to two \$10 million AI Institutes focused on Intelligent Tutoring and</p>	<p>Brief background at https://ies.ed.gov/director/remarks/3-16-2021.asp.</p>

<p>in FY 2021 as a joint program with NSF.</p>	<p>Special Education in FY 2021. The solicitation is expected out Aug/Sep 2021.</p>	
<p>Comprehensive Centers The most recent competition for several five-year regional Centers and a main National Center was held in spring 2019. However, the Department anticipates competing a new 5-year grant award for a National Comprehensive Center on Improving Literacy for Students with Disabilities in FY 2021.</p>	<p>ED’s Office of Elementary and Secondary Education (OESE) supports this program, which funds at least one National Center, targeted at capacity-building services and network support, and several regional centers that aim to “provide capacity-building services to State educational agencies (SEAs), regional educational agencies (REAs), local educational agencies (LEAs), and schools that improve educational outcomes for all students, close achievement gaps, and improve the quality of instruction.” Awards are generally up to five years ranging from approximately \$1 million to \$6 million.</p>	<p>More information available at https://oese.ed.gov/offices/office-of-formula-grants/program-and-grantee-support-services/comprehensive-centers-program/.</p>
<p>Statewide Family Engagement Centers (SFEC) Program The most recent competition was held in 2019.</p>	<p>ED’s Office of Elementary and Secondary Education (OESE) supports the SFEC program. The purpose of the SFEC program is “to support organizations that provide technical assistance and training to State educational agencies (SEAs) and local educational agencies (LEAs) in the implementation and enhancement of systemic and effective family engagement policies, programs, and activities that lead to improvements in student development and academic achievement.” Awards are generally up to five years ranging from approximately \$3 million to \$5 million.</p>	<p>More information available at https://oese.ed.gov/offices/office-of-discretionary-grants-support-services/school-choice-improvement-programs/statewide-family-engagement-centers-program/.</p>
<p>Equity Assistance Centers The most recent competition was held in 2019. The FY 2021 competition was cancelled, but the Department intends to compete a new competition in FY 2022.</p>	<p>ED’s Office of Elementary and Secondary Education (OESE) supports the Equity Assistance Centers program. “Equity Assistance Centers are funded by the Department to provide technical assistance and training, upon request, in the areas of race, sex, national origin, and religion to public school districts and other responsible governmental agencies to promote equitable education opportunities. The centers work in the areas of civil rights, equity, and school reform.” Awards are generally up to three years with a ceiling of \$1.7 million.</p>	<p>More information available at https://oese.ed.gov/offices/office-of-formula-grants/program-and-grantee-support-services/training-and-advisory-services-equity-assistance-centers/.</p>
<p>Center to Improve Social and Emotional Learning and School Safety The most recent competition was held in 2018.</p>	<p>ED’s Office of Elementary and Secondary Education (OESE) supports this program. The purpose of the five-year Center is “to Improve Social and Emotional Learning and School Safety (Center) is to provide technical assistance to support States and districts in the implementation of social and emotional learning</p>	<p>More information available at https://oese.ed.gov/offices/office-of-formula-grants/safe-supportive-schools/center-improve-social-</p>

	evidence-based.” Awards are generally for \$1 million per year for up to five years.	emotional-learning-school-safety/ .
Special Education -Technical Assistance and Dissemination ED has competitions currently open, with July 20, 2021, deadlines, for Model Demonstration Projects to Develop Coaching Systems. The Department noticed it would like to fund an “Equity in IDEA Technical Assistance Center” in FY 2022.	ED’s Office of Special Education Programs (OSEP) supports the Technical Assistance and Dissemination (TA & D) program. “A majority of the grants currently funded under the TA & D program support technical assistance centers that focus on a particular topic, population, or age range, such as early intervening services, dispute resolution, early childhood, college- and career-readiness, and positive behavioral interventions and supports to improve results for children with disabilities.” Awards are generally up to five years ranging from approximately \$1 million to \$6 million.	More information available at https://www2.ed.gov/programs/oseptad/index.html .
Special Education - Educational Technology, Media, and Materials for Individuals with Disabilities Program The most recent competition was held earlier in 2021.	ED’s Office of Special Education Programs (OSEP) supports the Educational Technology, Media, and Materials program. Several center opportunities exist under this program with varying levels of duration and funding support.	More information available at https://www2.ed.gov/programs/oseptms/index.html .
Special Education-Personnel Development to Improve Services and Results for Children with Disabilities The most recent competition was held earlier in 2021.	ED’s Office of Special Education Programs (OSEP) supports the Special Education-Personnel Development to Improve Services and Results for Children with Disabilities program. “The Department also makes awards to centers under this program. Unlike awards that provide support for scholarships, which are designed primarily to increase the supply of personnel, center-based awards tend to focus on enhancing the quality of work in a particular topical area through such activities as professional development, technical assistance, partnerships, or the development of materials and best practices.” Several center opportunities exist under this program with varying levels of duration and funding support.	More information available at https://www2.ed.gov/programs/osepprep/index.html .
Rehabilitation Services Administration (RSA) Technical Assistance Centers A current competition is open with deadlines of August 9, 2021.	ED’s Rehabilitation Services Administration assists states and other agencies in their work to provide vocational rehabilitation and other services to individuals with disabilities. RSA support several Technical Assistance Centers with varying levels of duration and funding support.	More information available at https://rsa.ed.gov/about/programs .

Department of Energy (DOE)

Type	Information on Future Solicitations	Additional Information
<p>Energy Frontier Research Centers (EFRCs) DOE currently supports 31 four-year centers and a new competition to recompete and establish new centers is planned for FY 2022.</p>	<p>In FY 2022 (fall 2021), DOE plans to issue a \$100 million funding opportunity announcement for the next round of EFRCs. Like prior years, awards will range from \$2 million to \$4 million a year over four years. DOE plans to fund 30-40 new or renewed centers. Most likely topic areas include transformative manufacturing; clean energy research in direct air capture, hydrogen, solar, and energy storage; cryogenic electron microscopy for the physical sciences; microelectronics; and chemical upcycling of polymers.</p>	<p>More information available at https://science.osti.gov/bes/efrc/.</p>
<p>Urban Integrated Field Laboratories In FY 2022, DOE plans to launch up to 10 field labs in geographically diverse cities around the country to improve climate modeling and tools.</p>	<p>In FY 2022 (at the end of 2021), DOE plans to compete \$17 million to establish urban integrated field laboratories around the country. Each field lab would be funded up to \$2 million a year over four years. The purpose is to help build integrated models and tools that improve understanding of the interdependence of the natural and human components of the climate system. The initial scope would target a diverse set of urban regions around the country with the purpose of developing a science framework for advancing observational and prediction capabilities. A new element also includes addressing environmental justice through neighborhood scale evaluation of climate impacts and energy needs.</p>	<p>Science article on Urban Integrated Field Laboratories available at https://www.science.org/news/2021/06/through-proposed-climate-labs-department-energy-reaches-out-urban-communities.</p>
<p>ARPA-E The average ARPA-E program award is \$3 million over three years.</p>	<p>In FY 2022, ARPA-E plans to compete \$450 million to support new clean-energy technology research and development through 15 new funding calls. Topics of interest include materials for carbon-neutral or carbon-negative buildings; technologies to dramatically reduce high-level nuclear waste; advanced battery electrodes and conductors for high capacity and rapid charge; grid resilience, reliability, and flexibility; and advanced fusion approaches for energy applications.</p>	<p>More information available at https://arpa-e.energy.gov/.</p>
<p>Clean Energy Manufacturing Innovation (CEMI) Institutes</p>	<p>In FY 2022, DOE plans to compete two new CEMI institutes. DOE would provide</p>	<p>More information on existing Institutes</p>

While subject to final congressional appropriations, DOE plans to compete two new CEMI Institutes focused on industrial decarbonization.	\$14 million a year for each Institute for a total of \$70 million over five years (plus an additional \$70 million in required cost-share). DOE has not yet selected specific topic areas, but the Institutes would focus on helping the U.S. manufacturing sector in industrial decarbonization, reducing its energy use intensity, and incorporating resilience into its operations.	available at Manufacturing USA.
Nuclear Forensics University Consortium The National Nuclear Security Administration's (NNSA) nonproliferation research and development program plans to establish a new university consortium focused on nuclear forensics.	In FY 2022, NNSA plans to compete a new \$25 million nuclear forensics research and development university consortium. The focus of this multi-institutional, multi-disciplinary university consortium would be to support research and development in science, engineering, and other disciplines to address basic research shortfalls and train the next generation of experts needed to support NNSA's technical nuclear forensics missions. The consortium would be funded \$5 million a year over 5 years with the option of a second 5-year renewal.	More information on existing consortia available at NNSA grants \$50 million to university consortia supporting nonproliferation research and development Department of Energy.
Minority Serving Institution STEM, Manufacturing, and Cybersecurity Consortium While subject to congressional appropriations, DOE plans to launch a new consortium focused on STEM education, cybersecurity, and health and environmental science.	In FY 2022, DOE through the Office of Environmental Management plans to launch a new \$25 million minority serving institution STEM, manufacturing, and cybersecurity consortium. Primarily focused on academic institutions near DOE Environmental Management labs and sites, such as Savannah River and Hanford, the goal is to expand activities to advance education, job training, and job opportunities as well as explore new partnerships with Historically Black Colleges and Universities and other Minority Serving Institutions.	

Department of Homeland Security (DHS)

Type	Information on Future Solicitations	Additional Information
University Centers of Excellence (COEs) The COE program is DHS's flagship research initiative for universities and its awards are highly	The FY 2022 budget request called for an increase in funding for the COE program for the first time in years, as well as the launch of two new COEs with proposed competitions in early FY 2022. Topics for the two new COEs will be decided by DHS based on established needs. It	More information available at http://www.dhs.gov/homeland-security-centers-excellence.

<p>competitive. The solicitations seek a lead institution, in coordination with a selected contingent of other university, industry, national laboratory, and non-profit partners, to conduct research and development activities around a specific area of need for DHS components. Funding is typically around \$3.65 million a year over a 10-year award.</p>	<p>is possible that border and maritime resilience could be two topics of interest should DHS decide to fill capabilities left by expiring COEs as they have done with some competitions in the past. More will be known in later 2021 when Biden Administration priorities for the program are more apparent. The most recent competition was in January 2021 for a COE on Engineering Secure Environments from Targeted Attacks (ESE). The request notes that DHS plans to complete the review of applications for the ESE COE by the third quarter of 2021.</p>	
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Department of Transportation (DOT)

Type	Information on Future Solicitations	Additional Information
<p>University Transportation Centers</p>	<p>Future competitions are triggered by passage of legislation reauthorizing DOT’s surface transportation programs. The current authorization expires at the end of FY 2021. Assuming Congress passes a surface transportation authorization in time, the earliest DOT would compete the 35 UTCs would be winter 2022 at the earliest.</p> <p>The award size for current National, Regional, and Tier 1 centers ranges from \$1.5 million to \$3.2 million depending on the category of UTC.</p>	<p>More information available at https://www.transportation.gov/utc.</p>

Economic Development Administration (EDA)

Type	Information on Future Solicitations	Additional Information
<p>American Rescue Plan funding (COVID relief package) EDA has \$2.25 billion available to support economic development and job creation activities (\$3 billion minus 25% for tourism). Funding was made available through the</p>	<p>A solicitation is expected to be released imminently. The solicitation is expected to support larger-than-normal EDA projects and projects will be expected to align with certain EDA investment priorities. Equity is expected to be highlighted among the priorities. As with CARES Act funding, ARP is expected to leverage the flexible Public Works and Economic Adjustment Assistance solicitation.</p>	<p>Information on the previous EDA CARES funding is available at: https://eda.gov/coronavirus/.</p>

<p>American Rescue Plan Act (APA), which passed in early 2021.</p>		
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National Aeronautics and Space Administration (NASA)

Type	Information on Future Solicitations	Additional Information
<p>Space Technology Research Institutes (STRI) NASA established STRIs as catalysts for deepening its connections to universities and enhancing their ability to advance basic research and technology development in areas relevant to its mission needs.</p>	<p>Space Technology Mission Directorate (STMD) announced awards from the 2020 STRI competition in March 2021. The next STRI competition could occur in FY 2022 at the earliest if STMD maintains its current cadence biennial competitions.</p>	<p>More information available at https://www.nasa.gov/directorates/spacetech/strg/stri.</p>
<p>University Leadership Initiative (ULI) Established in 2015, ULI supports universities or university-led teams conducting research to address specific topics relevant to the mission of the Aeronautics Research Mission Directorate (ARMD) while contributing to the long-term health and diversity of the aeronautical workforce.</p>	<p>NASA issued a solicitation for the fifth ULI competition in April 2020. Each ULI is funded at \$1 million to \$2 million annually for a four-year performance period. The next ULI competition is anticipated for spring FY 2022 if NASA maintains the yearly schedule for competitions.</p>	<p>More information available at https://nari.arc.nasa.gov/uli.</p>
<p>DRIVE Science Centers These centers are intended to address grand challenge research questions in solar and space physics through the cross-disciplinary application of theoretical and computational modeling and simulation tools.</p>	<p>The first Phase I awards were announced in January 2020. Proposals for larger Phase II awards are expected to be solicited sometime in FY 2021 or early FY 2022.</p>	<p>More information available at https://nspires.nasa.gov/prs.com/external/solicitations/summary/init.do?sollid={1FE15C46-31FA-783D-4ED2-F77BC1A233C9}&path=open.</p>
<p>Explorer Missions Cost-capped, competitively selected, PI-led missions managed by the</p>	<p>NASA is implementing a two-year cadence of Explorer Announcements of Opportunity (AOs). The Heliophysics Division is anticipated to issue an AO for a Small Explorer (SMEX) in Spring of</p>	<p>More information on Astrophysics Explorers is available at</p>

<p>Astrophysics Division and the Heliophysics Division within the NASA Science Mission Directorate. Explorers are accompanied by Missions of Opportunity (MOs), which offer researchers the opportunity to propose smaller instruments or studies that complement the larger Explorer mission.</p>	<p>FY 2022. The Astrophysics Division is anticipated to issue an AO for a Medium Explorer (MIDEX) in August 2021. Each SMEX and MIDEX AO will be accompanied by separate MO announcements.</p>	<p>https://science.nasa.gov/astrophysics/programs/astrophysics-explorers. More information on Heliophysics Explorers is available at https://ehpd.gsfc.nasa.gov/.</p>
<p>Astrophysics Pioneers Astrophysics Pioneers are a new class of PI-driven, competitively selected small missions managed by the Astrophysics Division. Pioneer-class mission payloads are intended to leverage CubeSat, suborbital, ISS or balloon platforms and are cost-capped at \$20 million.</p>	<p>The second Astrophysics Pioneers competition is anticipated for this year however the specific details and deadlines are TBD, per NASA.</p>	<p>More information can be found on the NSPIRES portal (https://nspires.nasaprs.com/) under “NNH21ZDA001N-PIONEERS”</p>
<p>Discovery Missions Discovery missions are PI-driven, competitively selected missions, though they are managed by the Planetary Science Division.</p>	<p>NASA announced selection of two Discovery proposals in June 2021. NASA has yet to announce timing of the next Discovery AO, but the current cadence of Discovery AOs suggests the next competition would occur in FY 2023.</p>	<p>More information available at https://science.nasa.gov/solar-system/programs/discovery.</p>
<p>New Frontiers Also residing within the Planetary Science Division, New Frontiers missions are larger, competitively selected missions.</p>	<p>The next New Frontiers AO is expected in early FY 2024. Recent New Frontiers AOs were cost capped at \$1 billion.</p>	<p>More information available at https://science.nasa.gov/solar-system/programs/new-frontiers.</p>
<p>Venture Class The Earth Science Division’s Earth Venture (EV) missions are cost-capped, competitively selected, PI-led missions that offer researchers the opportunity to propose orbital or suborbital missions, and instrumentation.</p>	<p>A solicitation for the Earth Venture Instrument (EVI-6) competition is delayed, but still expected to be released in FY 2021. Future Earth Venture opportunities include Earth Venture Suborbital–4 (FY 2022), and Earth Venture Continuity–2 (mid-to-late FY 2023).</p>	<p>More information available at https://eospsso.gsfc.nasa.gov/mission-category/13.</p>

<p>Award size varies depending on the mission category:</p> <ul style="list-style-type: none"> • Earth Venture Missions (EVMs) are capped at \$166 million per award. • Earth Venture Instruments (EVIs) are capped at \$108 million per award. • Earth Venture Suborbital (EVS) missions are capped at \$30 million per award. • Earth Venture Continuity (EVC), a newer component of the program that supports on-orbit demonstrations of new measurement approaches, is capped at \$150 million. 		
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National Endowment for the Humanities (NEH)

Type	Information on Future Solicitations	Additional Information
<p>Infrastructure and Capacity Building Challenge Grants Supports infrastructure development and capacity building. Next deadline for applications is September 28, 2021.</p>	<p>This competition supports two types of projects: 1) capital projects related to construction, renovation, equipment purchases, investment funds; and 2) digital infrastructure. Each competition funds awards of up to \$750,000. Matching funds are required. This competition will now run twice a year.</p>	<p>More information available at https://www.neh.gov/grants/preservation/infrastructure-and-capacity-building-challenge-grants.</p>

National Institutes of Health (NIH)

Unlike the other agencies included in this document, NIH does not have agency-wide flagship mechanisms. Rather, large center awards are driven through programmatic priorities within each institute or center. Examples of NIH center-type awards are presented below.

Type	Information on Future Solicitations	Additional Information
<p>Faculty Institutional Recruitment for Sustainable</p>	<p>The second solicitation for the FIRST program was released in July 2021. Proposals are due</p>	<p>More information is available at</p>

<p>Transformation (FIRST) Program (U54) This Common Fund program “aims to enhance and maintain cultures of inclusive excellence in the biomedical research community.” FIRST awards support the recruitment and retention of diverse faculty cohorts in the biomedical sciences.</p>	<p>September 24, 2021. Letters of Intent are due 30 days prior.</p> <p>NIH intends to fund up to four awards with a total investment of \$70.5 million in FY 2022.</p> <p>NIH intends to commit up to a total of \$70.5M total costs over five years to fund up to four awards starting in fiscal year 2022.</p> <p>NIH intends to compete the FIRST Cohort program three times.</p>	<p>https://grants.nih.gov/grants/guide/rfa-files/RFA-RM-21-025.html</p> <p>More information on the FIRST program can be found at https://commonfund.nih.gov/FIRST</p>
<p>Bridge to Artificial Intelligence (Bridge2AI) Program This Common Fund program is designed to accelerate the application of artificial intelligence and machine learning approaches to address complex problems in biomedicine. Launched in 2020, Bridge2AI will consist of a series of funding opportunities over five years.</p>	<p>The first major funding opportunity under the Bridge2AI program are the Data Generation Projects. These awards will use the Other Transaction Authority mechanism and NIH anticipates making 5-8 awards with a total budget of \$96 million over a four-year award period.</p> <p>Letter of Intent are due July 20, 2021, and full proposals are due August 20, 2021.</p>	<p>More information on the Bridge2AI Data Generation Projects can be found at https://commonfund.nih.gov/sites/default/files/OT2-Data-Generation-Projects-B2AI-051321-508.pdf</p> <p>More information on the Bridge2AI program, and planned future opportunities can be found at https://commonfund.nih.gov/bridge2ai</p>
<p>Collaborative Program Grant for Multidisciplinary Teams (RM1) This program aims to support highly integrated research teams (three to six investigators) examining challenging research questions that are aligned with the NIGMS mission. Proposed research should be synergistic and use a team science approach.</p>	<p>This program replaces almost all program project award programs at the National Institute of General Medical Sciences (NIGMS). The current solicitation expires in January 2023. Applications are due January 27 and May 27 each year.</p> <p>Applicants may propose research budgets of up to \$1.5 million annually. NIGMS anticipates supporting no more than four to six awards per fiscal year with awards ranging between \$700,000 to \$900,000 in direct costs.</p>	<p>More information is available at https://grants.nih.gov/grants/guide/pa-files/PAR-20-103.html</p>

<p>Clinical and Translational Science Award (CTSA) (U54) These large awards from the National Center for Advancing Translational Sciences (NCATS) support participation in the CTSA program, which supports translational and clinical research and fosters innovation in research methods, training, and career development.</p>	<p>The current solicitation was posted in September 2018 and expires in July 2021. We anticipate the next CTSA solicitation to be posted in July 2021.</p>	<p>More information available at https://grants.nih.gov/grants/guide/pa-files/PAR-18-940.html</p>
<p>Specialized Programs of Research Excellence (SPOREs) in Human Cancers (P50) These awards support state-of-the-art investigator-initiated translational research that will contribute to improved prevention, early detection, diagnosis, and treatment of an organ-specific cancer or a related group of cancers.</p>	<p>The current SPORE FOA expires January 2024. This is the signature award of the NCI Translational Research Program, and an institution can have more than one SPORE in a specific cancer.</p> <p>Applications are due January 25, May 25, and September 25 annually. Applicants may request a maximum of \$1.4 million in direct costs per year, and the max budget period is five years.</p>	<p>More information available at https://grants.nih.gov/grants/guide/pa-files/PAR-20-305.html</p>
<p>Countermeasures Against Chemical Threats (CounterACT) Research Centers of Excellence (U54) These centers support research and development of new and improved therapeutics for accidental or intentional exposure to chemical threats with the objective of reducing mortality and morbidity.</p>	<p>This program, supported by NINDS, NEI, NIEHS, NIAMS, and NIDA, is a trans-NIH initiative in translational research that collaborates with other HHS programs focused on identifying new medical countermeasures. A new solicitation was issued in December 2020 with applications due September 14, 2021; September 13, 2022; and September 12, 2023. Letters of Intent are due 30 days prior to the application due date.</p> <p>Application budgets may not exceed \$1.75 million in direct costs per year, and the project period may not exceed five years.</p>	<p>More information available at https://grants.nih.gov/grants/guide/pa-files/PAR-20-316.html</p>
<p>Biomedical Technology Development and Dissemination Center (RM1) This program supports the development of technologies and the refining and dissemination</p>	<p>This FOA was released in February 2020 and expires in January 2023. Applications are due January 26, 2022; May 26, 2022; and January 26, 2023.</p> <p>Proposed budgets may be up to \$850,000 in direct costs annually. The maximum project period is five years.</p>	<p>More information available at https://grants.nih.gov/grants/guide/pa-files/PAR-20-104.html</p>

<p>of tools that can improve approaches to problems in the biomedical sciences within the mission of NIGMS. Centers should focus on the development technologies with demonstrated feasibility.</p>		
<p>NIMH Conte Centers for Basic Neuroscience or Translational Mental Health Research (P50) This program supports funding for teams of researchers employing integrative and creative experimental approaches to address high-risk, high-reward questions in fundamental or translational neuroscience research.</p>	<p>The current solicitation was issued in January 2020. Applications are due May 24, 2022. Letters of Intent are due 30 days prior to proposal submission.</p> <p>Award budgets are limited to \$2 million annually and the project period is limited to five years.</p>	<p>More information is available at https://grants.nih.gov/grants/guide/pa-files/PAR-20-093.html</p>
<p>National Institute on Drug Abuse (NIDA) Research Center of Excellence (P50) These awards provide support for research centers that conduct drug abuse and addiction research in any area of NIDA’s mission. Research should be multidisciplinary and thematically integrated. In addition, these Centers must provide educational and outreach activities to educational organizations, policy makers, and the general public.</p>	<p>The current NIDA Center of Excellence FOA expires in November 2021. This is NIDA’s signature award for drug abuse and addiction research.</p> <p>Proposed budgets cannot exceed \$10 million for the entire five-year project period. Applications are due September 25, 2021.</p>	<p>More information available at https://grants.nih.gov/grants/guide/pa-files/PAR-19-259.html</p>
<p>National Institute on Deafness and Other Communication Disorders (NIDCD) Clinical Research Center Grant (P50) This program supports Centers designed to advance the diagnosis, prevention, and treatment of human communication</p>	<p>The current solicitation expires in October 2021. Applications are due October 6, 2021. Letters of Intent are due 30 days prior to full application submission.</p> <p>Project budgets are limited to \$1.5 million in annual direct costs; the maximum award period is five years.</p>	<p>For more information https://grants.nih.gov/grants/guide/pa-files/PAR-19-137.html</p>

disorders. Proposed research should involve an interdisciplinary team working on an integrated scientific theme aligned with the NIDCD mission.		
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National Institute for Standards and Technology (NIST)

Type	Information on Future Solicitations	Additional Information
Manufacturing Institutes	The President’s budget request for FY 2022 proposed \$150 million to fund two new Manufacturing USA Institutes at NIST, with one being in semiconductors. Whether or not these are supported will depend on the congressional appropriations process.	More information available in the NIST budget request document at https://www.commerce.gov/sites/default/files/2021-06/fy2022_nist_congressional_budget_justification.pdf .

National Oceanic and Atmospheric Administration (NOAA)

Type	Information on Future Solicitations	Additional Information
Cooperative Institutes (CIs) In July, NOAA announced the new Cooperative Institute for Marine and Atmospheric Studies (CIMAS) hosted by the University of Miami. Additionally, this year NOAA announced new CIs hosted by the University of Washington and UC San Diego’s Scripps Institution of Oceanography that are essentially renewals of existing centers with some changes.	NOAA currently operates 20 CIs that are recompeted every five-year cycle, with an option for one automatic renewal, which corresponds to each center. This is an extremely political award and requires support from the Hill and the NOAA Science Advisory Board. NOAA also releases a multi-annual BAA that is open year-round, and CIs are eligible to apply. CIs awarded this year are for up to \$310 million over five-years, yet CIs are unlikely to receive that full amount of money. To enable NOAA to funnel more money to the CIs if additional funding becomes available, the upper limit for the CI awards is double the funding that NOAA anticipates as available for the CIs.	More information available at https://ci.noaa.gov/ .

<p>Regional Integrated Science Assessments (RISA)</p>	<p>The RISA program supports research teams which help to “build the nation's capacity to prepare for and adapt to climate variability and change.” There are currently 11 regionally based teams. RISA regions do not cover the entire country geographically, however, there was a call for the expansion of the program and the addition of 1-2 new RISA teams which would help cover the existing gaps. A solicitation for these new centers is anticipated to be released in the fall, but it is not yet decided if the solicitation will be directed toward a gap region or will be an open call and the region will be decided based on applications. In either case, applicants based in presently uncovered regions will likely be especially competitive.</p>	<p>Information about the program is available at</p> <p>The existing RISA regions including a map of “gap regions” is available at https://cpo.noaa.gov/Meet-the-Divisions/Climate-and-Societal-Interactions/RISA/RISA-Teams#739083-risa-teams.</p>
<p>National Coastal Resilience Fund Program Formerly the Regional Coastal Resilience grants, this program is now administered by the National Fish and Wildlife Foundation (NFWF).</p>	<p>Annual solicitation released in the spring with a total of \$31 million in funding available for the FY 2020 cycle. Individual awards typically ranging between \$125,000 and \$5 million each. Focus areas in FY 2020 are: Community Capacity Building and Planning, Project Site Assessment and Preliminary Design, Project Final Design and Permitting, and Restoration and Monitoring.</p>	<p>More information available at https://www.nfwf.org/programs/national-coastal-resilience-fund/national-coastal-resilience-fund-2020-request-proposals.</p>
<p>Climate Smart Communities Initiative (CSCI) This competition aims to build specialized hazard assessments and resilience plans for varying communities across the country in close partnership with NOAA’s U.S. Climate Resilience Toolkit (USCRT) team.</p>	<p>The CSCI is a new, one-time competition that is being run through the Climate Program Office’s annual solicitation for FY 2022. The award will be a four-year cooperative agreement with funding for up to \$49 million over the duration of the award. In addition to displaying exceptional expertise in climate services and resilience sciences, applicants should also be able to manage diverse teams and partners including practitioners. The project will be expected to develop hazard assessments and resilience plans for around 300 communities with at least one in each state. Letters of Intent are due at 5:00 pm ET on August 9, 2021, and full applications are due by 5:00 pm ET on October 18, 2021.</p>	<p>The Climate Program office competition page is available at https://cpo.noaa.gov/Funding-Opportunities/2022-Notice-of-Funding-Opportunity and the fact sheet for CSCI is available at https://cpo.noaa.gov/Portals/0/Grants/2022/CEE-FY22-Info-Sheet.pdf.</p> <p>Additional information on the USCRT is available at https://toolkit.climate.gov/.</p>

National Science Foundation (NSF)

Type	Information on Future Solicitations	Additional Information
<p>Regional Innovation Accelerators (RIA) As included in the President's budget request for FY 2022 to focus on use-inspired, solutions-oriented research and innovation.</p>	<p>NSF is expected to release the first RIA solicitation in September 2021, to fund new projects in FY 2022. Top priority research areas include climate/energy and biotechnology. The request includes funding for 20 centers funded at \$10 million per year for 10-years. Final funding is dependent on the FY 2022 appropriations process.</p>	<p>More information on NSF plans for RIAs is available in the NSF budget request TIP section at https://www.nsf.gov/abou/budget/fy2022/pdf/52fy2022.pdf.</p>
<p>Engineering Research Centers (ERC) The latest solicitation was released in March 2020 for four awards to be made in summer 2022.</p>	<p>The next competition is expected to be released spring 2023 for awards to be made in FY 2025.</p>	<p>More information available at https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505599.</p>
<p>Science and Technology Centers (STC) The latest solicitation was released in March 2019 for five awards to be announced in summer 2021.</p>	<p>The next STC competition is expected to be released in August 2021 for projects to start in FY 2023.</p>	<p>More information available at https://www.nsf.gov/od/oa/programs/stc/.</p>
<p>Materials Research Science & Engineering Centers (MRSEC) The last solicitation was released in November 2018 for awards to start in September 2020.</p>	<p>MRSEC competitions are traditionally held every three years. The next competition is expected to be released early in 2022 for awards to be made in FY 2023. Individual awards are \$2.2 million to \$4 million per year for up to six years. NSF made 11 awards in the latest competition, which included three new awards.</p>	<p>More information available at https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5295.</p>
<p>Expeditions in Computing (Expeditions) The latest solicitation was released February 2020.</p>	<p>For the latest competition, preliminary proposals are due June 16, 2022, and full proposals due February 2023. Funding is up to \$15 million over seven years. NSF plans to make two to four awards in each competition.</p>	<p>More information available at https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503169.</p>
<p>Center for Chemical Innovation (CCI) In FY 2022, NSF plans to fund three new Phase I awards and one new Phase II center (from current Phase I awards, plus six continuing centers).</p>	<p>Current competition (preliminary proposals due August 23, 2021):</p> <ul style="list-style-type: none"> Phase I full proposals (by invitation only) due February 22, 2022 Phase II full proposals (NOTE: only three FY 2019 Phase I awards are eligible for the FY 2022 Phase II competition) due October 19, 2021 <p>Phase I awards are up to \$1.8 million for three years; phase II awards are up to \$4 million per year for five years.</p>	<p>More information available at https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13635 and on the CCI website at https://www.nsfcci.org/.</p>

<p>Major Research Instrumentation Program (MRI)</p>	<p>Proposals due annually in January. Track 1 supports proposals \$100,000 to \$1 million; track 2 supports proposals \$1 million to \$4 million.</p>	<p>More information available at https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5260.</p>
<p>Physics Frontiers Centers (PFC)</p>	<p>Solicitation traditionally released every three years, so the next solicitation is expected to be released early 2022. PFCs range from \$1 million to \$5 million per year for five years.</p>	<p>More information available at https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5305.</p>
<p>National Artificial Intelligence (AI) Research Institutes NSF funded five institutes in the first round (with two additional institutes funded by USDA NIFA), and plans to award seven institutes in the second round (plus one funded by USDA NIFA) to be announced August 2021.</p>	<p>The next solicitation is expected to be released August 2021. NSF plans to fund four additional institutes in FY 2022. This is expected to be the last AI Institutes solicitation. NOTE: The Department of Education has noticed its intent to support utilizing American Rescue Plan (ARP) funds an interagency agreement with NSF for up to two \$10 million AI Institutes focused on Intelligent Tutoring and Special Education in FY 2021.</p>	<p>More information available at https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505686.</p>
<p>Convergence Accelerators (C-Accel) The C-Accel 2021 competition was announced in March 2021 for two tracks: the Networked Blue Economy and Trust & Authenticity in Communication Systems. Proposals were due May and June.</p>	<p>Phase I awards are up to \$1 million for nine months. Phase II awards are up to \$5 million for two-year awards. We expect this to be an annual solicitation in new tracks informed by community engagement.</p>	<p>More information available at https://www.nsf.gov/od/oa/convergence-accelerator/news.jsp.</p>
<p>Coasts and People (CoPe) CoPe supports focused hubs at up to \$1 million per year for 3-5 years; and large-scale hubs at \$2-4 million for up to 5-years.</p>	<p>The competition first ran in FY 2020 with awards yet been announced. The next competition is expected in FY 2022 with letters of intent expected to be due in August and September 2022.</p>	<p>More information available at https://nsf.gov/funding/pgm_summ.jsp?pims_id=505772.</p>
<p>Biology Integration Institutes (BII) The second BII solicitation was released August 2020 to support five awards of up to \$12.5 million for a five-year award (with possible five-year continuation).</p>	<p>The next solicitation is expected in August 2021. NSF plan to make up to five additional BII awards in FY 2022.</p>	<p>More information available at https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505684.</p>

<p>Emerging Frontiers in Research and Innovation (EFRI) Led by Engineering, EFRI supports emerging research areas with awards around \$2 million for 4-years</p>	<p>EFRI 2022 and 2023 topics will be: Engineered Living Systems (ELIS); and Brain-Inspired Dynamics for Engineering Energy-Efficient Circuits and Artificial Intelligence (BRAID). The solicitation is expected out September/October 2021.</p>	<p>More information available at https://www.nsf.gov/funding/pgm_summ.jsp?pid=13708.</p>
<p>Mid-scale Research Infrastructure (Mid-scale RI) NSF has held two rounds of competition for Mid-Scale RI-1 (\$6 million-\$20 million) and Mid-Scale RI-2 (\$20 million-\$100 million).</p>	<p>NSF plans to issue the Mid-Scale competition biennially. The next solicitations for both MS-RI-1 and MS-RI-2 are expected to be released in the fall of 2022.</p>	<p>More information available at https://www.nsf.gov/news/special_reports/big_ideas/infrastructure.jsp.</p>
<p>Predictive Intelligence for Pandemic Prevention (PIPP) Will support fundamental research and capabilities needed to tackle grand challenges in infectious disease pandemics through prediction and prevention</p>	<p>Proposals for Phase I planning activities are due October 1, 2021. NSF plans to issues a center level funding opportunity “around 2023.”</p>	<p>More information available at https://www.nsf.gov/funding/pgm_summ.jsp?pid=505908.</p>
<p>Secure and Trustworthy Cyberspace Frontiers (SaTC Frontiers) Supports research to address cybersecurity and privacy.</p>	<p>The latest solicitation was released early July 2021. Current competition seeks ambitious and potentially transformative center-scale projects. Letters of Intent are due August 4, 2021, full proposals are due November 17, 2021. Projects are between \$5M to \$10M up to five years.</p>	<p>More information is available at https://www.nsf.gov/funding/pgm_summ.jsp?pid=505641&WT.mc_id=USNSF_44&WT.mc_ev=click.</p>
<p>Partnerships for International Research and Education (PIRE)</p>	<p>The next PIRE competition is expected out in the fall of 2021 with awards being made in FY 2022. The solicitation is expected to have focused research theme related to climate change or clean energy-related research.</p>	<p>More information available at https://www.nsf.gov/funding/pgm_summ.jsp?pid=505038.</p>
<p>Successor to SAGE (Seismological Facility for the Advancement of Geoscience) and GAGE (Geodetic Facility for the Advancement of Geoscience)</p>	<p>NSF GEO is planning a competition for a future cooperative agreement to support a single, unified geophysical facility as the successor to SAGE and GAGE. The solicitation is expected to be released the second quarter of 2023 with proposals due the first quarter of calendar year 2024.</p>	<p>More information available at https://www.nsf.gov/pubs/2021/nsf21097/nsf21097.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click.</p>
<p>Big Idea: Quantum Leap Challenge Institutes (QLCI) <i>The announcement of the first three awards is available here.</i></p>	<p><i>The second round of institutes is expected to be announced summer 2021. NSF does not plan to hold a third round of funding for QLCI.</i></p>	<p>More information available at https://www.nsf.gov/funding/pgm_summ.jsp?pid=505634.</p>

U.S. Department of Agriculture (USDA)

Type	Information on Future Solicitations	Additional Information
Agriculture and Food Research Initiative (AFRI) Sustainable Agricultural Systems (SAS)	Next solicitation is expected to be out in December 2021 . Emphasis is expected to be on supporting “innovative, transformative, integrated, and transdisciplinary systems-level approaches to promote development of climate-smart and carbon-neutral agriculture for improved production systems.” Nutrition security is another area of interest. Projects supported up to \$10 million. Mid-size awards also available.	More information available at: https://www.usda.gov/sites/default/files/documents/21NIFA2022Notes.pdf (page 58) and https://nifa.usda.gov/program/afri-sas .

Department of Commerce (DOC)

Type	Information on Future Solicitations	Additional Information
Regional Technology Hubs (RTHs) NOTE: DOC RTHs are <u>proposed</u> vehicles included in the Senate <i>U.S. Innovation and Competition</i> authorization bill (USICA). While the House version of a Regional Technology Hub bill is currently being considered, there is no funding for DOC RTHs at the time of writing.	USICA would provide around \$10 billion to create at least 18 Regional Technology Hubs (at least three in each of the Economic Development Administration’s (EDA) six regions). The hubs would provide support to regional consortia for workforce training, regional strategies, business activity related to the domestic supply chain, attraction of investments, manufacturing development, commercialization, and entrepreneurship support. While the program is still in its early stages, there is momentum to move the bill in Congress and it is expected to be fiercely competitive should it come to fruition. Interested applicants should review the proposed legislation for the parameters of the competition and begin conversations with regional stakeholders.	The Lewis-Burke analysis of USICA is available here .