# Special Programs Glossary

| SPONSOR | PROGRAM & SUMMARY | LIMITED SUBMISSION | HIGH DOLLAR* | HIGH VOLUME** |
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| NSF – National Science Foundation | **Faculty Early Career Development (CAREER) Programs**<br><br>NSF's most prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations. Such activities should build a firm foundation for a lifetime of leadership in integrating education and research.<br><br>Additionally, each year NSF selects nominees for the Presidential Early Career Awards for Scientists and Engineers (PECASE) from among the most meritorious new CAREER awardees. Selection for this award is based on two important criteria: 1) innovative research at the frontiers of science and technology that is relevant to the mission of the sponsoring organization or agency, and 2) community service demonstrated through scientific leadership, education or community outreach.<br><br>https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf17537&org=NSF<br><br>*Typically due in JULY.* | n/a | n/a | ✔ |
| NSF – National Science Foundation | **Major Research Instrumentation Program (MRI)**<br><br>This program serves to increase access to shared scientific and engineering instruments for research/research training in our Nation's institutions of higher education, museums and science centers, and non-profit organizations. This program especially seeks to improve the quality and expand the scope of research and research training in science and engineering, by providing shared instrumentation that fosters the integration of research and education in research-intensive learning environments. Development and acquisition of research instrumentation for shared inter- and/or intra-organization use is encouraged. (Mandatory cost sharing – see full solicitation)<br><br>https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf18513&org=NSF<br><br>*Typically due in JANUARY.* | ✔<br><br>Institutional limit of 3.<br><br>2 acquisition<br>1 development | ✔<br><br>~$100K -$4M | n/a |
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| NSF – National Science Foundation | **National Science Foundation Research Traineeship Program (NRT) –** <span style="color:red">**REPLACES IGERT PROGRAM**</span><br><br>The NSF Research Traineeship (NRT) program is designed to encourage the development and implementation of bold, new, and potentially transformative models for STEM graduate education training. The NRT program seeks proposals that explore ways for graduate students in research-based master's and doctoral degree programs to develop the skills, knowledge, and competencies needed to pursue a range of STEM careers.<br><br>The program is dedicated to effective training of STEM graduate students in high priority interdisciplinary research areas, through the use of a comprehensive traineeship model that is innovative, evidence-based, and aligned with changing workforce and research needs. For FY2018, proposals are requested in any interdisciplinary research theme of national priority, with special emphasis on two high priority areas: (1) Harnessing the Data Revolution (HDR) and (2) Innovations at the Nexus of Food, Energy, and Water Systems (INFEWS). HDR is expected to continue as a priority research area for FY2019 and FY2020 competitions, along with a new priority area to be announced in 2018. | ✔<br><br>Organization limit of 2<br><br>PI/CoPI limit of 1 | ✔<br><br>Up to $3M | n/a |

*High Dollar – equal to or greater than $1M*
*\*\*High Volume – equal to or greater than 5 proposals (based on average proposals previously submitted)*

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| | *https://www.nsf.gov/publications/pub_summ.jsp?WT.z_pims_id=505015&ods_key=nsf18507*<br><br>*LOI due in November*<br>*Full Proposals typically due in FEBRUARY* | | | |
| NSF – National Science Foundation | **STEM + Computing  Partnership (STEM+C)**<br><br>The STEM+C Partnerships program seeks to significantly enhance the learning and teaching of science, technology, engineering, mathematics (STEM), and computing by K-12 students and teachers, through research on, and development of, courses, curriculum, course materials, pedagogies, instructional strategies, or models that innovatively integrate computing into one or more STEM disciplines, or integrate STEM content into the teaching and learning of computing. In addition, STEM+C seeks to build capacity in K-12 computing education with foundational research and focused teacher preparation. Projects in the STEM+C Partnerships program should build on research in STEM education and prior research and development efforts that provide theoretical and empirical justification for proposed projects. Pre-service and in-service teachers who participate in STEM+C projects are expected to enhance their understanding and teaching of STEM and computing content, practices, and skills.<br><br>STEM+C invites creative and innovative proposals that address emerging challenges in the learning and teaching of STEM and computing. The program offers proposers two tracks: (1) Integration of Computing in STEM Education and (2) Computing Education Knowledge and Capacity Building. The second track is discipline-specific and may be expanded to include additional disciplines in future releases of the solicitation.<br><br>*https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf15537&org=NSF*<br><br>*Typically due in MARCH* | ✔<br><br>PI/CoPI limit of Proposal: 2. | ✔<br><br>Up to $1.5M for Prototype | n/a |
| NSF – National Science Foundation | **Partnerships for International Research  and Education (PIRE)**<br><br>Partnerships for International Research and Education (PIRE) is an NSF-wide program that supports international activities across  all NSF-supported disciplines. The primary  goal of PIRE is to support high quality projects in which advances in research and education could not occur without international collaboration. PIRE seeks to catalyze a higher level of international engagement in the U.S. science and engineering community.<br><br>International partnerships are essential to addressing critical science and engineering problems. In the global context, U.S. researchers and educators must be able to operate effectively in teams with partners from different national environments and cultural backgrounds. PIRE promotes excellence in science and engineering through international collaboration and facilitates development of a diverse, globally-engaged, U.S. science and engineering workforce.<br><br>*https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf16571&org=NSF*<br><br>*Typically due in SEPTEMBER for Pre proposals and APRIL for Full Proposals.* | ✔<br><br>Institutional limit of 1 pre proposal. | ✔<br><br>Up to $4M. | n/a |
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| NSF – National | **Early-concept Grants for Exploratory Research (EAGER)** | n/a | n/a | n/a |

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| Science Foundation | The EAGER funding mechanism may be used to support exploratory work in its early stages on untested, but potentially transformative, research ideas or approaches. This work may be considered especially "high risk-high payoff" in the sense that it, for example, involves radically different approaches, applies new expertise, or engages novel disciplinary or interdisciplinary perspectives.<br><br>PI(s) must contact the NSF program officer(s) whose expertise is most germane to the proposal topic prior to submission of an EAGER proposal. This will aid in determining the appropriateness of the work for consideration under the EAGER mechanism; this suitability must be assessed early in the process.<br><br>Requests may be for up to $300K and of up to two years duration. The award size, however, will be consistent with the project scope and of a size comparable to grants in similar areas.<br><br>https://www.nsf.gov/about/transformative_research/submit.jsp<br><br>*This program falls under Special Guidelines in the PAPPG and no particular deadlines are outlined.* | | | |
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| **SPONSOR** | **PROGRAM & SUMMARY** | **LIMITED SUBMISSION** | **HIGH DOLLAR\*** | **HIGH VOLUME\*\*** |
| NIH – National Institutes of Health | **Research Project Grant Program (R01)**<br><br>The Research Project Grant (R01) supports a discrete, specified, circumscribed project in scientific areas that represent the investigators' specific interests and competencies and that fall within the mission of the participating NIH Institutes and Centers (ICs). The R01 is the original, and historically the oldest, grant mechanism used by the NIH to support health-related research and development.  (NIH's most commonly used grant program).<br><br>Advance permission required for $500K or more (direct costs) in any year.  Generally awarded for 3 -5 years<br><br>http://grants.nih.gov/grants/guide/pa-files/PA-13-302.html<br><br>*Typically due FEBRUARY/JUNE/OCTOBER.* | n/a | n/a | ✔ |
| **SPONSOR** | **PROGRAM & SUMMARY** | **LIMITED SUBMISSION** | **HIGH DOLLAR\*** | **HIGH VOLUME\*\*** |
| NIH – National Institutes of Health | **Small Research Grant Program (R03)**<br><br>The NIH R03 funding opportunity announcement (FOA) supports discrete, well-defined projects that realistically can be completed in two years and that require limited levels of funding.<br><br>R03 grant mechanism will support small research projects that can be carried out in a short period of time with limited resources. The NIH has standardized the Small Grant (R03) application characteristics, requirements, preparation, and review procedures in order to accommodate investigator-initiated (unsolicited) applications. Not renewable<br><br>http://grants.nih.gov/grants/guide/pa-files/PA-13-304.html<br><br>*Typically due FEBRUARY/JUNE/OCTOBER.* | n/a | n/a | ✔ |
| NIH – National Institutes of Health | **Exploratory/Developmental Research Grant Program (Parent R21)**<br><br>The R21 grant mechanism is intended to encourage exploratory/developmental research by providing support for the early and conceptual stages of project development. The NIH has standardized the Exploratory/Developmental Grant (R21) application | n/a | n/a | ✔ |

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| characteristics, requirements, preparation, and review procedures in order to accommodate investigator-initiated (unsolicited) grant applications.<br><br>Combined budget for direct costs for the two year project period usually may not exceed $275,000. Cannot be renewed.<br><br>http://grants.nih.gov/grants/guide/pa-files/PA-13-303.html<br><br>*Typically due FEBRUARY/JUNE/OCTOBER.* | | | | |

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| NIH – National Institutes of Health | **Silvio O. Conte Centers for Basic or Translational Mental Health Research (P50)**<br><br>To support any part of the full range of research and development from very basic to clinical; may involve ancillary supportive activities such as protracted patient care necessary to the primary research or R&D effort. The spectrum of activities comprises a multidisciplinary attack on a specific disease entity or biomedical problem area. These grants differ from program project grants in that they are usually developed in response to an announcement of the programmatic needs of an Institute or Division and subsequently receive continuous attention from its staff. Centers may also serve as regional or national resources for special research purposes.<br><br>https://grants.nih.gov/grants/guide/pa-files/PAR-14-120.html<br><br>*Application Due Date(s): June 2018; May 2019* | | ✔️<br><br>Up to 2 m | n/a |
| NIH – National Institutes of Health | **NIH Director's New Innovator Award Program (DP2)**<br><br>Part of the High-Risk, High-Reward Research program, the award supports exceptionally creative early career investigators who propose innovative, high-impact projects in the biomedical, behavioral or social sciences with the NIH mission. Must have Early State Investigator Status (completed doctoral degree or postgraduate clinical training within last 10 years and never received an NIR R01 or equivalent award); Single PI only; No preliminary data required; $1.5 million in direct costs disbursed in first year of 5-year project period; Minimum of 25% research effort.<br><br>http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-13-007.html<br><br>*Typically due in SEPTEMBER.* | Limit 1 per PI. | ✔️<br><br>$1.5M | n/a |
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| AFOSR – Air Force Office of Scientific Research | **Young Investigator Research Program (YIP)**<br><br>The Fiscal Year 2019 Air Force Young Investigator Research Program (YIP) intends support young in career scientists and engineers who have received Ph.D. or equivalent degrees by April 1, 2012 or later showing exceptional ability and promise for conducting basic research.<br><br>The program objective is to foster creative basic research in science and engineering; enhance early career development of outstanding young investigators; and increase opportunities for the young investigator to recognize the Air Force mission and related challenges in science and engineering. | n/a | n/a | ✔️ |

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| | https://community.apan.org/wg/afosr/w/researchareas/12792/young-investigator-program-yip/<br><br>*Proposal due in JUNE* | | | |
| ONR – Office of Naval Research | **Young Investigator Program  (YIP)**<br><br>The Office of Naval Research (ONR) is interested in receiving proposals for its Young Investigator Program (YIP). YIP seeks to identify and support academic scientists and engineers who are in their first or second full-time tenure-track or tenure-track-equivalent academic appointment and for FY18, have begun their first appointment on or after 31 December 2012, and who show exceptional promise for doing creative research. The program's objectives are to attract outstanding faculty members of Institutions of Higher Education (hereafter also called "universities") to the Department of Navy's (DoN's) research program, to support their research, and to encourage their teaching and research careers.<br><br>*Full Proposal Deadline: SEPTEMBER* | n/a | n/a | ✔ |
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| National Science Foundation | **Improving Undergraduate STEM Education: Education and Human Resources (IUSE:EHR)**<br><br>The fields of science, technology, engineering, and mathematics (STEM) hold much promise as sectors of the economy where we can expect to see continuous vigorous growth in the coming decades. STEM job creation is expected to outpace non-STEM job creation significantly, according to the Commerce Department, reflecting the importance of STEM knowledge to the US economy.<br>The National Science Foundation (NSF) plays a leadership role in development and implementation of efforts to enhance and improve STEM education in the United States. Through the NSF *Improving Undergraduate STEM Education* (IUSE) initiative, the agency continues to make a substantial commitment to the highest caliber undergraduate STEM education through a Foundation-wide framework of investments. The IUSE: EHR program is a core NSF undergraduate STEM education program that seeks to improve the effectiveness of undergraduate STEM education for both majors and non-majors.<br>https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf19601<br>*Full Proposal Deadline: varies by program* | n/a | Up to 3m | |
| DoE – Department of Energy | **Early Career Research Program**<br><br>The funding opportunity for researchers in universities and DOE national laboratories, now in its ninth year, supports the development of individual research programs of outstanding scientists early in their careers and stimulates research careers in the areas supported by the DOE Office of Science.<br>https://science.osti.gov/early-career<br>*Pre Applications typically due in January.*<br>*Full Proposals due in April.* | n/a | n/a | ✔ |
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| DoD- Department of Defense- Department of the Army | **Defense University Research Instrumentation Program (DURIP)**<br><br>DURIP is designed to improve the capabilities of accredited United States (U.S.) institutions of higher education to conduct research and to educate scientists and engineers in areas important to national defense, by providing funds for the acquisition of research equipment | n/a | ✔<br><br>Award ceiling is $1.5M | |

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| | or instrumentation. For-profit organizations are not eligible for DURIP funding. We refer to eligible institutions of higher education as universities in the rest of this announcement. DURIP is part of the University Research Initiative (URI). https://www.arl.army.mil/www/pages/8/001%20FOA-ARO-W911NF19S0005%20DURIP%20FY20.pdf *Typically due in July* | | | |
| DoD – Department of Defense-Office of Naval Research | **Defense University Research Instrumentation Program (DURIP)** <br><br> DURIP is designed to support university research infrastructure essential to high-quality Navy relevant research. The research instrumentation that is necessary to carry out cutting-edge research. Each year that DURIP is in effect, a complete announcement will provide detailed program information, including the deadline date for submitting proposals. DURIP proposals submitted to ONR should facilitate research in an area of interest to ONR, as described in the <u>Science and Technology section</u>. Potential proposers may contact the appropriate program managers, listed with each area of interest, to explore possible mutual interests before submitting proposals. https://www.onr.navy.mil/en/Education-Outreach/Sponsored-Research/University-Research-Initiatives/DURIP *Typically due in July.* | n/a | n/a | n/a |
| DoD- Department of Defense-Air Force Office of Scientific Research | **Defense University Research Instrumentation Program (DURIP)** <br><br> DURIP is designed to improve the capabilities of accredited United States (U.S.) institutions of higher education to conduct research and to educate scientists and engineers in areas important to national defense, by providing funds for the acquisition of research equipment or instrumentation. For-profit organizations are not eligible for DURIP funding. We refer to eligible institutions of higher education as universities in the rest of this announcement. DURIP is part of the University Research Initiative (URI). <br><br> https://www.afrl.af.mil/About-Us/Fact-Sheets/Fact-Sheet-Display/Article/2282120/afosr-funding-opportunities-university-research-initiative-uri/ <br><br> *Typically due in JULY* | n/a | ✔️ Award Ceiling is $1.5 M | |
| DoD – Department of Defense | **Multidisciplinary University Research Initiative (MURI)** <br><br> Supports basic science and/or engineering research at U.S. institutions of higher education that is of critical importance to national defense. The program is focused on multidisciplinary research efforts that intersect more than one traditional science and engineering discipline to address issues of critical concern to the DoD. Innovative ideas are highly encouraged. <br><br> https://www.cto.mil/2020-muri/ <br><br> *Pre-Proposals due in JUNE;* <br><br> *Full Proposals due in SEPTEMBER* | n/a | ✔️ Up to $2.5M | n/a |
| HHMI – Howard Hughes Medical Institute | **Initiative for Universities Grants** <br><br> Supports transformative science education at the undergraduate and pre-K to 12th grade levels. The competition is open by invitation to 197 institutions that serve undergraduates and were classified as research universities (very high- and high-research activity). These institutions | ✔️ Institutional limit of 1 core grant and 1 experimental grant. | ✔️ Up to $1M. | n/a |

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| | provide an environment in which research-active faculty and students are engaged in excellent, peer-reviewed science.<br><br>Proposals by invitation only.<br>http://www.hhmi.org/programs/initiative-for-universities<br>*White Paper typically due in JUN; Full Proposals due in OCTOBER.* | | | |
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| Alfred P. Sloan Foundation | **Sloan Research Fellowships**<br><br>Seeks to stimulate fundamental research by early-career scientists and scholars of outstanding promise. These fellowships are awarded in recognition of distinguished performance and a unique potential to make substantial contributions to their field.<br><br>http://www.sloan.org/sloan-research-fellowships/<br><br>*Nominations typically due in SEPTEMBER.* | n/a | n/a | ✔ |
| John Templeton Foundation | **Foundation Grant**<br><br>In the Charter establishing his philanthropy, John Templeton expresses that his Foundation should serve as a philanthropic catalyst for research on concepts and realities such as love, gratitude, forgiveness and creativity. Twenty years later, the Foundation continues to fund rigorous scientific research and related cutting-edge scholarship on a wide spectrum of "Core Themes."<br><br>Submitting an Online Funding Inquiry (OFI) has been the first stage in requesting funding from the John Templeton Foundation. Full proposals by invitation only.<br><br>http://www.templeton.org/what-we-fund/our-grantmaking-process<br><br>*2018 Funding Cycle 1: OFI – August 31; Full Proposals (invitation only) due by Sept. 28 (Small Grants: $234,800 or less)*<br><br>*2018 Funding Cycle 2: OFI – Aug 31; Full Proposals (invitation only) due by September 28 (Large Grants: more than $234,800)* | n/a | ✔<br><br>Up to $5M. | n/a |
| ACLS – American Council of Learned Societies | **ACLS Fellowship Program**<br><br>The **ACLS Fellowship Program** invites research applications in all disciplines of the humanities and humanities-related social sciences (1). The ultimate goal of the project should be a major piece of scholarly work by the applicant. ACLS does not fund creative work (e.g., novels or films), textbooks, straightforward translation, or pedagogical projects.<br><br>The ACLS Fellowships are intended as salary replacement to help scholars devote six to twelve continuous months to full-time research and writing. An ACLS Fellowship may be held concurrently with other fellowships and grants and any sabbatical pay, up to an amount equal to the candidate's current academic year salary.<br>http://www.acls.org/programs/acls/<br><br>*Typically due in SEPTEMBER.* | n/a | n/a | ✔ |
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| APS – | **Fellowships and Research Grants** | n/a | n/a | ✔ |

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| American Philosophical Society | American Philosophical Society awards research grants to academic scholars. APS maintains 10 grant or fellowship programs.<br><br>The Franklin, Lewis and Clark, Astrobiology, Library Fellowship, Phillips, John Hope Franklin, Daland Fellowships, Advanced Materials and Mellon Fellowships are awarded as grants.<br><br>http://www.amphilsoc.org/grants<br><br>*Typical due dates vary depending on program.* | | | |
| Bill and Melinda Gates Foundation | **Grand Challenges**<br><br>The Grand Challenges in Global Health initiative fosters scientific and technological innovation to solve key health problems in the developing world. Grand Challenges Explorations fosters innovation in global health research. Launched in 2008, Grand Challenge Explorations grants have already been awarded to more than 180 researchers from 29 countries.<br><br>http://www.grandchallenges.org/Pages/Default.aspx<br><br>Submission window runs twice per year and next rounds are expected to open in March and September of each year. | n/a | ✓<br><br>$1M for phase II | ✓ |
| Guggenheim Foundation | **Guggenheim Fellowships**<br><br>The Fellowships are awarded to men and women who have already demonstrated exceptional capacity for productive scholarship or exceptional creative ability in the arts. The Foundation consults with distinguished scholars and artists regarding the accomplishment and promise of the applicants and presents this evidence to the Committee of Selection.<br><br>http://www.gf.org/applicants/the-united-states-canadian-competition/<br><br>*Typically due in SEPTEMBER.* | n/a | n/a | ✓ |