

UPCOMING FUNDING OPPORTUNITIES

INTERNAL OPPORTUNITIES

Tow Faculty Research and Creativity grant program

Purpose: This program supports faculty research toward peer-reviewed publication or creative work. The funds are designed to support the career advancement of full-time faculty across the disciplines. Faculty at any stage of the research or creative process may apply. This year funds may be used to support conference registration when presenting a paper leading to publication, materials and equipment, translations, student research assistance, subvention, indexing, reproduction rights, the purchase of specialized datasets, software, travel to collections, and technologies that enable research that the college does not customarily provide. Seed funding to develop proposals for external support is also possible. Faculty salary and reassigned time are not supported by this program. Funds need to be spent by August 15, 2023.

Funder: Brooklyn College Office of the Provost

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: \$500 - \$3,000

Deadline: 06 Jan 2023

EXTERNAL OPPORTUNITIES

Designing Synthetic Cells Beyond the Bounds of Evolution (Designer Cells)

Purpose: Because of recent technological advances in synthetic biology and bioengineering, researchers are now able to tailor cells and cell-like systems for a variety of basic and applied research purposes. The goal of this solicitation is to support research that (1) develops cell-like systems to identify the minimal requirements for the processes of life, (2) designs synthetically-modified cells to address fundamental questions in the evolution of life or to explore biological diversity beyond that which currently exists in nature, and (3) leverages basic research in cell design to build novel synthetic cell-like systems and cells for innovative biotechnology applications. Highest funding

priority is given to proposals that have outstanding intellectual merit and broader impacts, while proposals with weaknesses in either category (or those that are perceived as likely to have an incremental impact) will not be competitive. Proposals submitted to this solicitation should address social, ethical, and safety issues associated with designing and building synthetically modified cells as an integrated component of the project.

Funder: National Science Foundation (NSF)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Deadline: 01 Feb 2023

Science and Technology Studies (STS)

Purpose: Science and Technology Studies (STS) is an interdisciplinary field that investigates the conceptual foundations, historical developments and social contexts of science, technology, engineering and mathematics (STEM), including medical science. The STS program supports proposals across a broad spectrum of research that uses historical, philosophical and social scientific methods to investigate STEM theory and practice. STS research may be empirical or conceptual; specifically, it may focus on the intellectual, material or social facets of STEM including interdisciplinary studies of ethics, equity, governance and policy issues.

Funder: National Science Foundation (NSF)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Deadline: 02 Feb 2023

Co-infection and Cancer (R01 Clinical Trial Not Allowed)

Purpose: The purpose of this Funding Opportunity Announcement (FOA) is to enhance mechanistic and epidemiologic investigations addressing the roles of co-infection. Co-infection is defined as the occurrence of infections by two or more infectious (pathogenic or non-

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pathogenic) agents – either concurrently or sequentially – and includes both acute and chronic infections by viruses, bacteria, parasites, and/or other microorganisms. Preference will be given to investigations of co-infections with known oncogenic agents (excluding human immunodeficiency virus [HIV]) and of co-infections that engender novel opportunities for prevention and treatment. This initiative is also available through the Exploratory/Developmental Grant (R21).

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Deadline: 05 Feb 2023

Transformative Educational Advancement and Mentoring Network (TEAM) (R25 Clinical Trial Not Allowed)

Purpose: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. To accomplish the stated overarching goal, this FOA will support creative educational activities with a primary focus on *courses for skills development and mentoring activities*. The Transformative Educational Advancement and Mentoring (TEAM) Network will pilot test the use of training champions (TCs) at minority serving institutions (MSIs) (as defined in Section III), to support the development of educational activities and scientific career development programs and promote the diversity of the cancer research workforce. The career development levels of focus for this FOA will include predoctoral and postdoctoral fellows, and early-stage investigators (ESIs). TCs are defined as personnel located within the MSI who can assist potential scholars with their plans to apply, attain, or transition to an independent grant award. This RFA will leverage TCs to assist scholars in identifying funding opportunities, networking with appropriate NCI/NIH program directors, and locating resources for competitive application preparation. TCs will also provide additional training support, navigation, and

resources to enhance the skills required to successfully identify, prepare, submit, and obtain grants and career development opportunities.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field

Amount: varies to reflect the needs of the project

Deadline: 10 Feb 2023

NCI Mentored Research Scientist Development Award to Promote Diversity (K01 Independent Clinical Trial Not Allowed)

Purpose: This Funding Opportunity

Announcement (FOA) is a continuation of the NCI Mentored Research Scientist Development Award to Promote Diversity (K01) to enhance the diversity in the NCI-funded cancer research workforce by supporting eligible individuals from diverse backgrounds, including groups that have been shown to be nationally underrepresented in the biomedical, behavioral, social and clinical sciences. This FOA provides salary and research support for a sustained period of "protected time" for intensive research career development under the guidance of an experienced mentor.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Deadline: 12 Feb 2023

Enabling Partnerships to Increase Innovation Capacity (EPIIC)

Purpose: The purpose of this solicitation is to broaden participation in innovation ecosystems that advance emerging technologies by supporting capacity-building efforts at institutions of higher education (IHEs) interested in growing external partnerships. The NSF Regional Innovation Engines (NSF Engines) program, housed within the TIP Directorate, seeks to grow inclusive innovation ecosystems around the country. Growing such ecosystems will only be successful if all interested IHEs within a region are able to participate and contribute their unique set of skills and expertise. However, NSF appreciates many Minority-Serving Institutions (MSIs), Predominantly Undergraduate Institutions (PUIs), and two-year institutions lack the infrastructure and resources needed to grow external partnerships and effectively contribute to innovation ecosystems, and thus are currently

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unable to effectively engage with the NSF Engines program. This solicitation aims to provide MSIs, PUIs, and two-year institutions with limited or no research with the support necessary to become equitable partners with teams competing under the current and subsequent NSF Engines program funding opportunities. Importantly, participation in this solicitation is not predicated on an existing partnership with organizations submitting an NSF Engines proposal. Rather, it is expected that the capacity-building efforts funded under this solicitation will provide significant innovation partnership opportunities irrespective of future participation in an NSF Engine.

Funder: National Science Foundation (NSF)
Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field
Amount: \$400,000
Proposal Deadline: 15 Feb 2023

EDU Core Research: Building Capacity in STEM Education Research (ECR: BCSER)

Purpose: ECR's Building Capacity in STEM Education Research (ECR: BCSER) supports projects that build investigators' capacity to carry out high-quality STEM education research that will enhance the nation's STEM education enterprise. In addition, ECR: BCSER seeks to broaden the pool of researchers who can advance knowledge regarding STEM learning and learning environments, broadening participation in STEM fields, and STEM workforce development. Researchers of races and ethnicities, genders, sexual orientations, and abilities who are currently underrepresented in their participation in STEM education research and the STEM workforce, as well as faculty at minority-serving and two-year institutions, are particularly encouraged to submit proposals. Specifically, ECR: BCSER supports activities that enable researchers to expand their areas of expertise and acquire the requisite knowledge and skills to conduct rigorous research in STEM education. Career development may be accomplished through investigator-initiated professional development and research projects or through institutes that enable researchers to integrate methodological strategies with theoretical and practical issues in STEM education.

Funder: National Science Foundation (NSF)
Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field
Amount: \$350,000 - \$1,000,000/yr up to 3 years
Proposal Deadline: 24 Feb 2023

NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)

Purpose: The S-STEM program provides institutions of higher education (IHEs) with funds for scholarships to encourage and enable domestic low-income students with academic ability, talent or potential and demonstrated financial need to enter the US workforce following completion of associate, baccalaureate, or graduate degrees in S-STEM eligible disciplines. To enable social mobility of these students with academic talent, funds should be allocated to support scholars in areas of regional or national need. Funds also enable IHEs to establish a coherent ecosystem of effective evidence-based practices (curricular and co-curricular activities taking place during the academic year and over the summer and winter break months if appropriate) and to assess the effects of those practices and other factors on retention, student success, academic/career pathways, and degree attainment, including transfer, and entry into the US workforce or graduate programs in STEM.

Funder: National Science Foundation
Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field
Amount: \$1,000,000 - \$2,500,000 over 6 years
Deadline: 01 Mar 2023

Exceptional Project Grants

Purpose: Breast Cancer Alliance invites clinical doctors and research scientists at any stage of their careers, including post docs, whose current proposal is focused on breast cancer, to apply for an Exceptional Project Grant. This award recognizes creative, unique and innovative research.

Funder: Breast Cancer Alliance, Inc.
Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field
Amount: \$100,000
Letter of Intent Deadline: 01 Mar 2023

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Experiential Learning for Emerging and Novel Technologies (ExLENT)

Purpose: Through this new initiative, the Directorate for STEM Education (EDU) and the newly established Directorate for Technology, Innovation and Partnerships (TIP) seek to support experiential learning opportunities for individuals from diverse professional and educational backgrounds that will increase access to, and interest in, career pathways in emerging technology fields (e.g., advanced manufacturing, advanced wireless, artificial intelligence, biotechnology, quantum information science, semiconductors, and microelectronics). The ExLENT program will support inclusive experiential learning opportunities designed to provide cohorts of diverse learners with the crucial skills needed to succeed in emerging technology fields and prepare them to enter the workforce ready to solve our Nation's most pressing scientific and societal challenges. Furthermore, the ExLENT program will directly support NSF's priority to build a diverse workforce in emerging technologies to assure the Nation's competitiveness in STEM. Key goals of the program are to (1) expand access to career-enhancing experiential learning opportunities for a broader, more diverse population, including adult learners interested in re-skilling and/or upskilling (e.g., those who face or who have faced significant barriers to accessing a formal STEM education); (2) promote cross sector partnerships between organizations in emerging technology fields and those with expertise in workforce development; and (3) develop a workforce aligned with regional economies based on emerging technologies across the Nation, in alignment with the mission of the TIP Directorate.

Funder: National Science Foundation (NSF)
Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field
Amount: \$1,000,000 over 3 years
Pre-Application Deadline: 02 Mar 2023

Mid-Career Enhancement Awards to Integrate Basic Behavioral, Biomedical, and/or Social Scientific Processes (K18 No Independent Clinical Trials)

Purpose: This Funding Opportunity Announcement (FOA) invites applications from investigators who strive to expand their research

trajectories through the acquisition of new knowledge and skills in the areas of basic psychological processes, sociological processes, and/or biomedical pathways—expertise that is beyond and enhances their current areas of expertise. The program will support career development experiences and a small-scale research project that will provide experienced investigators with the scientific competencies required to conduct independent research projects that more thoroughly investigate interrelationships among behavioral, biological, endocrine, epigenetic, immune, inflammatory, neurological, psychological, and/or social processes.

Funder: National Institutes of Health (NIH)
Applicant: Mid-Career to Established in Field
Amount: varies to reflect the needs of the project
Deadline: 17 Mar 2023

Summer Research Education Experience Program (R25 Clinical Trial Not Allowed)

Purpose: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. To accomplish the stated overarching goal, this FOA will support creative educational activities with a primary focus on *Research Experiences* for high school students, undergraduate students, and/or science teachers during the summer academic break.

Funder: National Institutes of Health (NIH)
Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field
Amount: \$125,000/yr for 5 years
Deadline: 17 Mar 2023

Innovations in Graduate Education (IGE) Program

Purpose: The Innovations in Graduate Education (IGE) program is designed to encourage the development and implementation of bold, new, and potentially transformative approaches to STEM graduate education training. The program seeks proposals that explore ways for graduate students in research-based master's and doctoral degree programs to

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develop the skills, knowledge, and competencies needed to pursue a range of STEM careers. IGE focuses on projects aimed at piloting, testing, and validating innovative and potentially transformative approaches to graduate education. IGE projects are intended to generate the knowledge required for their customization, implementation, and broader adoption. The program supports testing of novel models or activities with high potential to enrich and extend the knowledge base on effective graduate education approaches. The program addresses both workforce development, emphasizing broad participation, and institutional capacity building needs in graduate education.

Funder: National Science Foundation (NSF)
Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field
Amount: \$1,000,000 over 5 years
Deadline: 25 Mar 2023

Institutional Research Grants

Purpose: Institutional Research Grants are awarded to institutions as block grants, providing seed money for newly independent investigators to initiate cancer research projects. The intent is to support these junior faculty in initiating cancer research projects so they can obtain preliminary results that will enable them to compete successfully for national research grants.

Funder: American Cancer Society, Inc.
Applicant: Early Career and Emerging in Field
Amount: \$120,000/yr for 3 years
Deadline: 01 Apr 2023

Discovery Boost Grants (DBG)

Purpose: Discovery Boost Grants (DBG) support high-risk, high-reward exploratory cancer research across the research continuum. Investigators may focus on developing research methodologies, establishing feasibility, or leading pilot tests. It is expected that preliminary data generated from a completed DBG will have the potential to secure additional grant funding to further the research and open new and highly innovative areas for investigation.

Funder: American Cancer Society, Inc.
Applicant: Mid-Career to Established in Field
Amount: \$125,000/yr for 2 years
Deadline: 01 Apr 2023

Research Scholar Grants

Purpose: Research Scholar Grants (RSG) provide support for independent, self-directed researchers and clinician scientists, who are investigators licensed to provide patient care and trained to conduct research. Applicants' institutions must provide space and other resources customary for independent investigators. Grant proposals are investigator-initiated and may pursue questions across the cancer research continuum, as long as they fit within an American Cancer Society (ACS) [priority research area](#). These grants typically contribute to the cost of salaries, consumable supplies, and other miscellaneous items required in the research. Investigators within the first 10 years of an initial independent research career or full-time faculty appointment are welcome to apply.

Funder: American Cancer Society, Inc.
Applicant: Early Career and Emerging in Field
Amount: \$165,000/yr for 4 years
Deadline: 01 Apr 2023

Postdoctoral Fellowships

Purpose: Postdoctoral Fellowships (PF) support new investigators in research training programs to position them for independent careers in cancer research. As part of their evaluation, peer reviewers consider how well the fellowship will broaden the applicant's research training and experience.

Funder: American Cancer Society, Inc.
Applicant: Early Career and Emerging in Field
Amount: \$66,000 - \$70,000/yr for 3 years
Deadline: 01 Apr 2023

NIH Support for Conferences and Scientific Meetings (Parent R13 Clinical Trial Not Allowed)

Purpose: The purpose of the NIH Research Conference Grant (R13) is to support high quality scientific conferences that are relevant to the NIH's mission and to the public health. A conference is defined as a symposium, seminar, workshop, or any other organized and formal meeting, whether conducted face-to-face or via the internet, where individuals assemble (or meet virtually) for the primary purpose to exchange technical information and views or explore or clarify a defined subject, problem, or area of knowledge, whether or not a published report

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results from such meeting.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Deadline: 12 Apr 2023

Short Courses on Innovative Methodologies and Approaches in the Behavioral and Social Sciences (R25 Independent Clinical Trial Not Allowed)

Purpose: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. To accomplish the stated overarching goal, this FOA will support creative educational activities with a primary focus on *courses for skills development*.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: \$200,000/yr for 4 years

Deadline: 17 Apr 2023

Toward Translation of Nanotechnology Cancer Interventions (TTNCI) (R01 Clinical Trial Not Allowed)

Purpose: This Funding Opportunity Announcement (FOA) is designed to enable the translation of nanotechnology-based cancer interventions relying on nanoparticle formulations and/or nano-devices. The TTNCI initiative encourages applications for advanced pre-clinical research, supporting translation of nanotechnology-based cancer diagnostics and therapeutics. TTNCI awards are expected to mature experimental nanomedicines designed for highly relevant cancer clinical objectives with a strong potential to improve cancer treatment effectiveness. It is expected that improvement of treatment effectiveness will occur due to the combination of nanoparticle/nano-device structural design and/or therapeutic/diagnostic cargo which is delivered. TTNCI awards are expected to enable further development of proposed nanotechnology-based interventions to the stage in which they could continue on a

developmental path towards the NCI Experimental Therapeutics (NExT) and other NCI translational programs.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: \$475,000/yr for 4 years

Deadline: 17 May 2023

Stimulating Access to Research in Residency (StARR) (R38 Independent Clinical Trial Not Allowed)

Purpose: This Funding Opportunity Announcement (FOA) invites applications from investigators who strive to expand their research trajectories through the acquisition of new knowledge and skills in the areas of basic psychological processes, sociological processes, and/or biomedical pathways—expertise that is beyond and enhances their current areas of expertise. The program will support career development experiences and a small-scale research project that will provide experienced investigators with the scientific competencies required to conduct independent research projects that more thoroughly investigate interrelationships among behavioral, biological, endocrine, epigenetic, immune, inflammatory, neurological, psychological, and/or social processes. Applicants may propose research that involves non-human animals, secondary data analyses, or other career development projects that do not involve leading an independent clinical trial, a clinical trial feasibility study, or an ancillary study to a clinical trial. Applicants are permitted to propose research experience within a clinical trial led by a mentor or co-mentor. Eligible candidates are independent investigators at mid-career faculty rank or level.

Funder: National Institutes of Health (NIH)

Applicant: Mid-Career to Established in Field

Amount: \$165,000/yr for 4 years

Deadline: 17 May 2023

Chan Zuckerberg Initiative - Science Diversity Leadership Award

Purpose: Science Diversity Leadership awards from the Chan Zuckerberg Initiative (CZI) will recognize the leadership and scientific accomplishments of outstanding early- to mid-career researchers at U.S. universities, medical

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schools, or nonprofit research institutes who — through their outreach, mentoring, teaching, and leadership — have a record of promoting diversity, equity, and inclusion in their scientific fields. They will have made significant research contributions to the biomedical sciences, show promise for continuing scientific achievement, and demonstrate leadership in efforts to diversify the sciences. Principal Investigators and laboratory staff who are leading projects supported by these grants will participate in annual in-person meetings and online webinars organized by CZI and will be connected to national and international scientific leaders through CZI convenings.

Funder: Chan Zuckerberg Initiative (CZI)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: \$230,000/yr for 5 years

Deadline: 19 May 2023

Research Experience in Genomic Research for Data Scientists (R25)

Purpose: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this NHGRI R25 program is to support educational activities that encourage individuals from diverse backgrounds, including those from groups underrepresented in the biomedical and behavioral sciences, to pursue further studies or careers in research. To accomplish the stated over-arching goal, this funding opportunity announcement (FOA) will support creative educational activities with a primary focus on *Research Experiences*.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: \$250,000/yr for 5 years

Deadline: 25 May 2023

National Cancer Institute Program Project Applications for the Years 2023, 2024, and 2025 (P01 Clinical Trial Optional)

Purpose: With this Funding Opportunity Announcement (FOA), the National Cancer Institute (NCI) invites applications for investigator-initiated Program Project (P01) applications. The proposed Program may address any of the broad areas of cancer

research, including (but not limited to) cancer biology, cancer prevention, cancer diagnosis, cancer treatment, and cancer control. Basic, translational, clinical, and/or population-based studies in all of these research areas are appropriate. Each application submitted in response to this FOA must consist of at least three research projects and an Administrative Core. The projects must share a common central theme, focus, and/or overall objective.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Deadline: 25 May 2023

Undergraduate Research Training Initiative for Student Enhancement (U-RISE) (T34)

Purpose: The goal of the Undergraduate Research Training Initiative for Student Enhancement (U-RISE) program is to develop a diverse pool of undergraduates who complete their baccalaureate degree, and transition into and complete biomedical, research-focused higher degree programs (e.g., Ph.D. or M.D./Ph.D.). This funding opportunity announcement (FOA) provides support to eligible, domestic institutions to develop and implement effective, evidence-informed approaches to biomedical training and mentoring that will keep pace with the rapid evolution of the research enterprise. NIGMS expects that the proposed research training programs will incorporate didactic, research, mentoring, and career development elements to prepare trainees for the completion of research-focused higher degree programs in biomedical fields. This program is limited to applications from training programs at baccalaureate degree-granting research-active institutions. This Funding Opportunity Announcement (FOA) does not allow appointed trainees to lead an independent clinical trial but does allow them to obtain research experience in a clinical trial led by a mentor or co-mentor.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Deadline: 26 May 2023

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Support for Research Excellence (SuRE) Award (R16 Clinical Trial Not Allowed)

Purpose: SuRE is a research capacity building program designed to develop and sustain research excellence in U.S. higher education institutions that receive limited NIH research support and serve students from groups underrepresented in biomedical research with an emphasis on providing students with research opportunities and enriching the research environment at the applicant institutions. The purpose of SuRE awards is to provide research grant support for faculty investigators who have prior experience in leading externally-funded, independent research but are not currently funded by any [NIH Research Project Grants](#) with the exception of SuRE or SuRE-First awards.

Funder: National Institutes of Health (NIH)
Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field
Amount: \$100,000/yr for 4 years
Deadline: 26 May 2023

Limited Competition: Basic Instrumentation Grant (BIG) Program (S10 Clinical Trial Not Allowed)

Purpose: The Basic Instrumentation Grant (BIG) Program encourages applications from groups of NIH-supported investigators to purchase a single high-priced, specialized, commercially available instrument or an integrated instrumentation system. The BIG Program is limited to institutions that have not received S10 instrumentation funding of \$250,001 or greater in any of the preceding 3 Federal fiscal years (FY). Instruments supported include, but are not limited to, basic cell sorters, confocal microscopes, ultramicrotomes, gel imagers, or computer systems.

Funder: National Institutes of Health (NIH)
Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field
Amount: \$25,000 - \$250,000
Deadline: 01 Jun 2023

Shared Instrumentation Grant (SIG) Program (S10 Clinical Trial Not Allowed)

Purpose: The Shared Instrument Grant (SIG) Program encourages applications from groups of NIH-supported investigators to purchase or

upgrade a single item of high-priced, specialized, commercially available instruments or integrated instrumentation system. Instruments supported include, but are not limited to: X-ray diffractometers, mass spectrometers, nuclear magnetic resonance spectrometers, DNA and protein sequencers, biosensors, electron and light microscopes, flow cytometers, and biomedical imagers.

Funder: National Institutes of Health (NIH)
Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field
Amount: \$50,000 - \$600,000
Deadline: 01 Jun 2023

High-End Instrumentation (HEI) Grant Program (S10 Clinical Trial Not Allowed)

Purpose: The High-End Instrumentation (HEI) Grant Program encourages applications from groups of NIH-supported investigators to purchase or upgrade a single item of high-end, specialized, commercially available instruments or integrated systems. Instruments supported include, but are not limited to, X-ray diffractometers, high throughput robotic screening systems, mass spectrometers, nuclear magnetic resonance spectrometers, DNA and protein sequencers, biosensors, electron and light microscopes, flow cytometers, and biomedical imagers.

Funder: National Institutes of Health (NIH)
Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field
Amount: \$600,000 - \$2,000,000
Deadline: 01 Jun 2023

Basic Research in Cancer Health Disparities (R01 Clinical Trial Not Allowed)

Purpose: This Funding Opportunity Announcement (FOA) encourages grant applications from investigators interested in conducting basic, mechanistic research into the biological/genetic causes of cancer health disparities. These research project grants (R01) will support innovative studies designed to investigate biological/genetic bases of cancer health disparities, such as (1) mechanistic studies of biological factors associated with cancer health disparities, including those related to basic research in cancer biology or cancer prevention strategies, (2) the development and

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testing of new methodologies and models, and (3) secondary data analyses. This FOA is also designed to aid and facilitate the growth of a nationwide cohort of scientists with a high level of basic research expertise in cancer health disparities research who can expand available resources and tools, such as biospecimens, patient derived models, and methods that are necessary to conduct basic research in cancer health disparities. This initiative is also available through the Exploratory/Developmental Grant ([R21](#)) and the Small Research Grants ([R03](#)) mechanisms.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Deadline: 05 Jun 2023

[NIH Research Project Grant \(Parent R01 Clinical Trial Not Allowed\)](#)

Purpose: The NIH Research Project Grant supports a discrete, specified, circumscribed project in areas representing the specific interests and competencies of the investigator(s). The proposed project must be related to the programmatic interests of one or more of the participating NIH Institutes and Centers (ICs) based on their scientific missions.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Deadline: 05 Jun 2023

[Research and Mentoring for Postbaccalaureates in Biological Sciences \(RaMP\)](#)

Purpose: The Research and Mentoring for Postbaccalaureates (RaMP) in Biological Sciences program invites the submission of proposals to establish networks to support full-time research, mentoring, and training for recent college graduates who have had few or no research or training opportunities during college in research fields typically supported by the Directorate of Biological Sciences (BIO). A strategic focus of the National Science Foundation is to foster the growth of a globally-competitive and diverse research workforce. To that end, proposals submitted to this program are

expected to create strong evidence-based, inclusive and culturally-aware mentorship programs that will advance the goal of creating a competitive and highly representative science, technology, engineering and mathematics (STEM) workforce in the U.S. with a focus on the biological sciences. Projects are expected to train individuals for a range of potential career pathways in the biological sciences including: research-focused M.S. or Ph.D. graduate programs; entry-level positions in industry, federal, tribal, or state agencies, education and research centers, or not-for-profit science-based organizations; or other STEM careers.

Funder: National Science Foundation (NSF)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Deadline: 05 Jun 2023

[Basic Research in Cancer Health Disparities \(R01 Clinical Trial Not Allowed\)](#)

Purpose: This Funding Opportunity Announcement (FOA) encourages grant applications from investigators interested in conducting basic, mechanistic research into the biological/genetic causes of cancer health disparities. These research project grants (R01) will support innovative studies designed to investigate biological/genetic bases of cancer health disparities, such as (1) mechanistic studies of biological factors associated with cancer health disparities, including those related to basic research in cancer biology or cancer prevention strategies, (2) the development and testing of new methodologies and models, and (3) secondary data analyses. This FOA is also designed to aid and facilitate the growth of a nationwide cohort of scientists with a high level of basic research expertise in cancer health disparities research who can expand available resources and tools, such as biospecimens, patient derived models, and methods that are necessary to conduct basic research in cancer health disparities. This initiative is also available through the Exploratory/Developmental Grant ([R21](#)) and the Small Research Grants ([R03](#)) mechanisms.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field /

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Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Deadline: 05 Jun 2023

Cancer Tissue Engineering Collaborative: Enabling Biomimetic Tissue-Engineered Technologies for Cancer Research (R01 Clinical Trial Optional)

Purpose: This Funding Opportunity Announcement (FOA) will support the development and characterization of state-of-the-art biomimetic tissue-engineered technologies for cancer research. Collaborative, multidisciplinary projects that engage the fields of regenerative medicine, tissue engineering, biomaterials, and bioengineering with cancer biology will be essential for generating novel experimental models that mimic cancer pathophysiology in the context of a testable cancer research hypothesis. The projects supported by this FOA will collectively participate in the Cancer Tissue Engineering Collaborative (TEC) Research Program. The Cancer TEC Program will (1) catalyze the advancement of innovative, well characterized in vitro and ex vivo systems available for cancer research, (2) expand the breadth of these systems to several cancer types, and (3) promote the exploration of cancer phenomena with biomimetic tissue-engineered systems.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: \$400,000/yr for 5 years

Deadline: 05 Jun 2023

Modulating Human Microbiome Function to Enhance Immune Responses Against Cancer (R01 Clinical Trial Not Allowed)

Purpose: The purpose of this Funding Opportunity Announcement (FOA) is to support basic research that elucidates mechanisms by which the human microbiome inhibits or enhances anti-tumor immune responses, and to identify potential novel molecular targets for cancer prevention strategies. Applications should be focused on delineating how host interactions with specific microbes (or consortia) or their metabolites target immune responses that enhance or prevent inflammation-associated or sporadic tumor formation. Concentration, timing,

and duration of administered beneficial microbes may alter its effectiveness and thus those parameters should be rigorously addressed in the application. This initiative is also available through the Exploratory/Developmental Grant (R21) mechanism.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Letter of Intent Deadline: 05 Jun 2023

Investigator Initiated Research in Computational Genomics and Data Science (R01 Clinical Trial Not Allowed)

Purpose: The purpose of this funding opportunity announcement (FOA) is to invite applications for a broad range of research efforts in computational genomics, data science, statistics, and bioinformatics relevant to one or both of basic or clinical genomic science, and broadly applicable to human health and disease. This FOA supports fundamental genomics research that develops innovative analytical methodologies and approaches, early-stage development of tools and software, and refinement or hardening of software and tools of high value to the biomedical genomics community. Work supported under this FOA should be enabling for genomics and be generalizable or broadly applicable across diseases and biological systems.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: \$500,000/yr for 5 years

Deadline: 05 Jun 2023

NCI Cancer Moonshot Scholars Diversity Program (CMSDP) (R01 Clinical Trial Optional)

Purpose: This Funding Opportunity Announcement (FOA) supports the Cancer Moonshot Scholars Diversity Program (CMSDP) and solicits R01 grant applications that propose independent research projects within the scientific mission of the National Cancer Institute (NCI). The overarching goal of the CMSDP is to increase the number of R01 Early Stage Investigators (ESIs) and enhance the diversity of the cancer research workforce, while promoting

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scientific advancements in cancer. Investigators from diverse backgrounds, including those from underrepresented groups are encouraged to work with their institutions to apply.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project

Deadline: 06 Jun 2023

Exploratory Grant Award to Promote Workforce Diversity in Basic Cancer Research (R21 Clinical Trial Not Allowed)

Purpose: This Funding Opportunity Announcement (FOA) is a continuation of an NCI program to enhance the diversity of the pool of the cancer research workforce by recruiting and supporting eligible New Investigators and Early Stage Investigators from diverse backgrounds, including from groups that have been shown to be nationally underrepresented in the biomedical, behavioral, clinical and social sciences. This FOA will fund investigators to develop a larger research project grant application.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: \$275,000 over 2 years

Deadline: 14 Jun 2023

Exploratory/Developmental Bioengineering Research Grants (EBRG) (R21 Clinical Trial Not Allowed)

Purpose: The purpose of this engineering-oriented funding opportunity announcement (FOA) is to encourage submissions of exploratory/developmental Bioengineering Research Grant (EBRG) applications to demonstrate feasibility and potential utility of new capabilities or improvements in quality, speed, efficacy, operability, costs, and/or accessibility of solutions to problems in basic biomedical, pre-clinical, or clinical research, clinical care delivery, or accessibility.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: \$275,000 over 2 years

Deadline: 16 Jun 2023

NLM Research Grants in Biomedical

Informatics and Data Science (R01 Clinical Trial Optional)

Purpose: The National Library of Medicine (NLM) supports innovative research and development in biomedical informatics and data science. This funding opportunity focuses on biomedical discovery and data-powered health, integrating streams of complex and interconnected research outputs that can be translated into scientific insights, clinical care, public health practices, and personal wellness. The scope of NLM's interest in these research domains is broad, with emphasis on new and innovative methods and approaches to foster data driven discovery in the biomedical and clinical health sciences as well as domain-independent, scalable, and reusable/reproducible approaches to discovery, curation, analysis, organization, and management of health-related digital objects.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: \$250,000 over 4 years

Deadline: 17 Jun 2023

Modules for Enhancing Biomedical Research Workforce Training (R25 Clinical Trial Not Allowed)

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on Curriculum or Methods Development. Specifically, this FOA will support the development of training modules designed to be freely available, at no cost to the broader community to enhance training of the biomedical research workforce. Responsive topics will be indicated through Notices of Special Interest (NOSIs) released annually by NIGMS.

Funder: National Institutes of Health (NIH)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: \$250,000 over 3 years

Deadline: 19 Jun 2023

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Faculty Early Career Development Program (CAREER)

Purpose: CAREER: The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. Activities pursued by early-career faculty should build a firm foundation for a lifetime of leadership in integrating education and research. NSF

encourages submission of CAREER proposals from early-career faculty at all CAREER-eligible organizations and especially encourages women, members of underrepresented minority groups, and persons with disabilities to apply.

Funder: National Science Foundation (NSF)

Applicant: Early Career and Emerging in Field / Mid-Career to Established in Field

Amount: varies to reflect the needs of the project
Deadline: 27 Jul 2023

UPCOMING EVENTS

May 19 - 28, 2023

BigCare 2023 Summer Workshop

Purdue University Center for Cancer Research (PCCR) and Indiana University Melvin and Bren Simon Comprehensive Cancer Center (IUSCCC) are pleased to announce the annual NCI-funded workshop on "Big Data Training for Cancer Research" (BigCare) on May 19-28 2023. This 10-day intensive workshop will help cancer researchers develop skills for managing, visualizing, analyzing, and integrating various types of omics data in cancer studies. The course is open to cancer researchers including oncologists, faculty, postdoctoral researchers, and graduate students. Individuals from underrepresented groups are especially encouraged to apply. There is no cost for registration and tuition! The workshop will be held on-site at Purdue University, in West Lafayette, IN. There would be no cost for food or lodging, and travel scholarships would be available for a limited number of participants.

Application Deadline: 6 Jan 2023

[Link to apply](#)

January 11, 2023 • 12:00 - 1:00 PM

NSF Technology, Innovation and Partnerships (TIP) Directorate Grants

This new NSF directorate — first in more than 30 years — builds upon the agency's commitment over seven decades to serve as a beacon of U.S. innovation, advancing the frontiers of research and education across all fields of science and engineering. TIP is a critical first step that will accelerate the development of new technologies

and products that improve Americans' way of life, grow the economy, create new jobs, and strengthen and sustain U.S. competitiveness for decades to come. TIP's mission is to harnesses the nation's vast and diverse talent pool to advance critical and emerging technologies, address pressing societal and economic challenges, and accelerate the translation of research results from lab to market and society. This webinar provides an overview of all funding opportunities offered by this new directorate. It will highlight how in contrast to many existing NSF programs that primarily focus on scientific innovation, TIP programs include a strong emphasis on meaningfully engaging the consumers of research outcomes in informing and shaping the research questions; prototyping and piloting of research-based solutions (i.e., co-design and co-creation); and translating research results to practice, entrepreneurship, and direct economic growth. The program further differentiates itself from traditional NSF approaches through the nature and types of partnerships expected; the technology-translation and workforce-development outputs that will be tracked and assessed; and the budgets of the expected NSF Engines, which are an order of magnitude greater than traditional NSF center-scale awards.

Presenter will be: John Tsapogas, Director, RFCUNY-APPS. *Training presented as part of the RFCUNY Brown Bag Series.* [Link to register](#)

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February through July 2023

[ASRC NSF CAREER Bootcamp](#)

The NSF CAREER Bootcamp Program is designed to help NSF CAREER eligible tenure track faculty (assistant professors) across CUNY develop competitive proposals for NSF's Early Career Development Program. Broad focus areas include turning your research idea into an impactful research question & project; integrating research and education plans for potential impact; designing and evaluating substantive education and broader impacts activities; strategies for developing & writing a compelling, competitive, and compliant research proposal; and using and receiving constructive feedback from peers. Participation in the NSF CAREER Bootcamp is by application only. *Training presented by the CUNY Advanced Science Research Center.*

Application Deadline: 19 Jan 2023

[Link to apply](#)