Dear Deans, Chairs, Directors, Faculty, and Administrators of Divisions I, II, III & IV:

I am writing to alert you to the following open submission opportunities. Please share this information with any Princeton colleagues who may be interested.

The Corporate Engagement and Foundations Relations team is available to assist faculty with proposal development and submission. We welcome the opportunity to work with you.

Upcoming Funding Opportunities

Princeton University internal funds – Center for Digital Humanities (CDH): Seed Grants – Up to $1K – Application Due: 3/15/21

Supports early-stage development of research projects in the Digital Humanities

Proposals are invited from members of the Princeton faculty, graduate students, staff and postdoctoral fellows for Seed Grants to support individual or collaborative research projects. Funding is intended to support exploratory thinking and early-stage development for projects that may eventually become CDH collaborations. Examples include small-scale projects using text-encoding, geospatial encoding or analysis, topic modeling, corpus analysis, or
the creation or use of linked open data. The grant can also support meetings to plan or launch new campus-wide initiatives. View

**Princeton University internal funds – Center for Digital Humanities (CDH): Graduate Fellows in Digital Humanities – $750 per semester – Application Due: 3/15/21**

*Supports one-year graduate fellowships for students interested in the tools and methods of the Digital Humanities*

The CDH Graduate Fellows program is designed to welcome graduate students into the community of Princeton Digital Humanities researchers and introduce them to the broader landscape of DH. Over the course of the semester fellows will articulate research questions and identify goals for small-scale projects or components of larger projects (e.g., a dissertation). As a cohort, fellows will explore digital tools and methods that will benefit them over the course of their graduate careers. No previous experience with DH or technical skills is required. Applicants must be enrolled students, from any department and at any stage of their graduate career. The term of the fellowship is one semester; students may hold fellowships for up to two terms. View


*Funds research on social relationships and their effects on health, illness, recovery, and wellbeing*

This funding opportunity announcement (FOA) invites research projects that seek to model the underlying mechanisms, processes, and trajectories of social relationships and how these factors affect outcomes in health, illness, recovery, and overall wellbeing. Both animal and human subjects research projects are welcome. Researchers proposing basic science experimental studies involving human participants should consider the companion FOA PAR-21-144 "Research on Biopsychosocial Factors of Social Connectedness and Isolation on Health, Wellbeing, Illness, and Recovery (R01 Basic Experimental Studies with Humans Required)". View

**New Jersey Alliance for Clinical and Translational Science (NJ ACTS) – Pilot Program Year 3 – Amount varies – Letter of Intent Due: 3/19/21**

*Supports collaborative research projects in translational science*

The NJ ACTS Pilot Program offers one year pilot grants to foster collaborative research among faculty at Princeton, the New Jersey Institute of Technology (NJIT), and Rutgers in order to successfully translate biomedical discoveries to clinical applications by promoting creative and innovative science, and by providing pilot support for hypothesis generation and testing, and building teams to address questions in translational science. The rules and award categories have changed slightly this year. There are four different categories of projects and the collaboration requirements and funding amounts vary by
Princeton University internal funds – Council of the Humanities: Short-Term Visiting Fellows (virtual) – $2,500 – Nomination Due: 3/22/21

Funds short-term visiting fellowships at Princeton for distinguished humanities scholars

Chairs of humanities departments are invited to nominate distinguished scholars in the humanities for intensive three- to five-day visits during which these Fellows lecture and participate in classes, colloquia and informal discussions. Please note that at this time, FY22 nominations will be considered only for virtual fellowships, based on guidance from the Provost and Dean of the Faculty. View

Princeton University internal funds – Council of the Humanities: Belknap Visitors and Belknap Global Conversations – Amount varies – Nomination Due: accepted on a rolling basis

Supports brief campus visits by distinguished individuals in the arts and letters

The Belknap Visitors in the Humanities program was created to recognize distinguished individuals in the arts and letters. Belknap Visitors spend an intensive day on campus. Any member of the Princeton community may nominate a visitor; however, as Belknap visits require significant advance planning, nominations are usually made a year or more in advance. The Belknap Global Conversations program brings distinguished writers, artists, and scholars to campus for conversations that bridge “arts and ideas” in a global context. The program aims to provoke dialogue on a theme of broad interest in the realm of arts and letters that cuts across disciplinary boundaries and world regions. The Belknap Global Conversations program is intended to encourage new cross-departmental collaborations and to serve as primary financial support for a multi-departmental project that will be organized and hosted by the Humanities Council. Proposals for conversations are invited from faculty in any department or program, and should be made well in advance, ideally as part of planning for the year ahead. View

Brain & Behavior Research Foundation – BBRF Young Investigator Grant – $35K to $70K – Application Due: 3/25/21

Supports advanced postdocs and early-career faculty pursuing research careers in neuroscience and psychiatric disorders

The BBRF is committed to alleviating the suffering caused by mental illness through advances in scientific research. The Young Investigator program helps promising researchers to launch careers in neuroscience and psychiatry by either extending their postdoctoral fellowship training or beginning independent faculty positions, and gathering pilot data to apply for larger federal and university grants. All research must be relevant to the understanding, treatment and prevention of serious psychiatric disorders or early onset brain and behavior disorders. View
Chan Zuckerberg Initiative (CZI) – Essential Open Source Software for Science, Cycle 4 – $100K to $400K – Letter of Intent Due: 3/30/21

Funding for ongoing software projects that are essential to biomedical research
CZI is inviting researchers to apply for funding for software projects that are essential to biomedical research. The goal of the program is to support software maintenance, growth, development, and community engagement for these critical tools. Projects should have already demonstrated impact, show potential for continued improvement, and expect to deliver added value to the biomedical research community. View

National Science Foundation #21-549 – Center for Advancement and Synthesis of Open Environmental Data and Sciences – $20M – Letter of Intent Due: 4/1/21

Establishes a Center to collaboratively address scientific questions in environmental biology using large datasets
NSF seeks to establish a Center fueled by open and freely available biological and other environmental data to catalyze novel scientific questions in environmental biology through the use of data-intensive approaches, team science and research networks, and training in the accession, management, analysis, visualization, and synthesis of large data sets. The Center will provide vision for speeding discovery through the increased use of large, publicly accessible datasets to address biological research questions through collaborations with scientists in other related disciplines. The Center will be an exemplar in open science and team science, fostering development of generalizable cyberinfrastructure solutions and community-driven standards for software, data, and metadata that support open and team science, and role-modeling best practices. View

Environmental Research & Education Foundation – Sustainable Solid Waste Management Practices – $15K to $500K – Topic Approval Request (if required) Due: 4/1/21; Preproposal Due: 5/1/21

Supports research to improve sustainable management of solid waste
EREF funds research that addresses all areas of integrated solid waste management, with a strong focus towards research that increases sustainable solid waste management practices. EREF defines solid waste to include: municipal solid waste (e.g., residential, commercial, institutional); construction & demolition debris; certain industrial wastes (e.g., exploration & production waste, coal ash); and other wastes typically managed by the solid waste industry or generated by the public not included in the above items (e.g., electronic waste, disaster debris, etc). View

Microsoft Corporation – AI for Earth – Up to $15K in Azure
compute credits – Application Due: 4/5/21*
Provides AI and cloud computing support for research in biodiversity, climate change, agriculture, and food
AI for Earth Grants provide access to Microsoft resources to support projects that change the way people and organizations monitor, model, and manage Earth’s natural systems. The Azure compute credit grant provides Azure credits worth up to $15K to researchers who already have access to a labeled dataset and are ready to start using Azure AI tools and cloud computing. Recipients of AI for Earth grants also have access to additional resources – technical advice and support, online Azure training materials, and invitations to the AI for Earth Summit for networking and education opportunities.
*NOTE: Proposals are accepted on a rolling basis and reviewed four times a year; remaining 2021 dates are April 5, July 5, and October 4. View

Funds new research projects to study human cognition and behavior during real-world activities
The JSMF Opportunity Awards provide seed funds for researchers to design and carry out new studies motivated by questioning, revisiting, or re-examining the current state of academic knowledge of human cognition and behavior. New theories, tools, and techniques have opened opportunities for rigorously studying cognition and behavior as individuals engage in real-world activities in ways not previously possible. Applications will be considered from researchers who are not now using these approaches, but who want to adopt this approach as a way of conceptualizing, designing, and pursuing an understanding of human cognition and behavior. View

American Meteorological Society – AMS Graduate Fellowship in the History of Science – $20K – Application Due: 4/9/21
Supports students completing a dissertation on the history of the atmospheric, or related oceanic or hydrologic sciences
This fellowship supports one year of dissertation research in the history of the atmospheric, or related oceanic or hydrologic sciences, and fosters close working relations between historians and scientists. An effort will be made to place the student into a mentoring relationship. Applications from women, minorities, and disabled students, traditionally underrepresented in these fields, are encouraged. View

Supports research in invertebrate and vertebrate neurobiology to better understand behavior
The Whitehall Foundation assists basic scholarly research in areas of the life sciences that are not heavily supported by other funders. Its current area of interest is how neural mechanisms involved in sensory, motor, and other complex functions in invertebrates and vertebrates relate to behavior. The Foundation emphasizes the support of scientists at the beginning of their...
careers and productive senior scientists who wish to move into new fields of interest. **Research grants**—usually $30K to $75K per year for up to three years—support established scientists of all ages who have not received substantial support from other sources, even for an unrelated purpose. **Grants-in-Aid**—up to $30K for one year—support assistant professors who experience difficulty in competing for research funds because they have not yet become firmly established. *NOTE: There are three LOI submission deadlines each year: January 15, April 15, and October 1.* [View](#)

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**Princeton University internal funds – High Meadows Environmental Institute: Mary and Randall Hack ’69 Graduate Award for Water and the Environment – Up to $10K – Application Due: 4/16/21**

*Provides dissertation support to graduate students doing research on topics related to water*

This award provides research funding to Princeton University graduate students pursuing innovative research on water and water-related topics with implications for the environment, including projects related to climate science, engineering and environmental policy. Projects from a broad range of disciplines are eligible. Funds may be used for a range of purposes, including fieldwork, travel, conference participation, equipment purchases, and costs associated with data analysis and facilities use. Awards are for one year and are nonrenewable. [View](#)

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**Facebook Research – Sample-Efficient Sequential Bayesian Decision Making – $25K and $50K – Application Due: 4/21/21**

*Funds innovative research on Bayesian optimization*

This RFP seeks innovative ideas and applications of Bayesian optimization that further advance the field. Areas of interest include machine learning, artificial intelligence, and data science. Facebook is committed to open source and will help awardees make the products of this RFP available to the public as part of BoTorch, a modular framework to accelerate the pace of research in the area of Bayesian optimization and unlock new potential applications. [View](#)

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**Russell Sage Foundation – selected Core Programs – Up to $175K – Letter of Inquiry Due: 5/4/21**

*Supports research projects in various areas of the social sciences*

**Behavioral Economics:** Supports novel research that uses insights and methods from psychology, economics, sociology, political science and other social sciences to examine and improve social and living conditions in the U.S., in order to broaden understanding of the social, economic and political consequences of actual behaviors and decisions. Priority will be given to field experiments. The Foundation is especially interested in research at the intersection of behavioral economics and behavioral sciences and its programs on the Future of Work; Race, Ethnicity and Immigration; and Social, Political and Economic Inequality.

**Decision Making and Human Behavior in Context:** Funds innovative
research on decision making across the social sciences that examines causes, consequences, processes, or context from a behavioral or alternative perspective. This initiative will support research proposals from multiple methodological perspectives that will further understanding of decision making processes and human behavior in the contexts of work, race, ethnicity, immigration, and social inequality, broadly conceived, in the U.S.

**Future of Work:** Supports pioneering research on the causes and consequences of changes in the quality of jobs for less- and moderately-skilled workers and their families. RSF will support research that will broaden understanding of the role of changes in employer practices, the nature of the labor market, and public policies on employment, earnings, and job quality. They are especially interested in addressing questions about the interplay of market and non-market forces in shaping the wellbeing of workers, today and in the future.

**Social, Political and Economic Inequality:** Funds novel research on the factors that contribute to social, political and economic inequalities in the U.S., and the extent to which those inequalities affect social, psychological, political, and economic outcomes, including educational access, job opportunities, social mobility, civic participation and representation, and the transmission of advantage and disadvantage within and across generations.

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**Russell Sage Foundation – selected timely issues – Up to $175K – Letter of Inquiry Due: 5/4/21**

Supports social science research on the Covid-19 pandemic and resulting recession, systemic racial inequality, and recent mass protests

In addition to those regular Core Programs accepting LOIs at this time, RSF will also accept LOIs relevant to any of its core programs (Behavioral Economics; Decision Making and Human Behavior in Context; Future of Work; Race, Ethnicity, and Immigration; Social, Political, and Economic Inequality) that address at least one of the following issues:

**Research on the Covid-19 pandemic and the resulting recession in the U.S.:**
Specifically, research that assesses the social, political, economic, and psychological causes and consequences of the pandemic, especially its effects on marginalized individuals and groups and on trust in government and other institutions. Our priorities do not include analyses of health outcomes or health behaviors. RSF seldom supports studies focused on outcomes such as educational processes or curricular issues but does prioritize analyses of inequalities in educational attainment or student performance.

**Research focused on systemic racial inequality and/or the recent mass protests in the U.S.:** Specifically, research that investigates the prevalence of racial disparities in policing and criminal justice and their social, political, economic, and psychological causes and consequences; the effects of the current social protest movement and mass mobilization against systemic discrimination; the nature of public attitudes and public policies regarding policing, criminal justice, and social welfare; and the effects of those attitudes in the current political environment.

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**National Science Foundation #21-561 – Stimulating Collaborative Advances Leveraging Expertise in the Mathematical and Scientific Foundations of Deep Learning**
(SCALE MoDL) – Up to $1.2M – Proposal Due: 5/12/21

Supports cross-disciplinary research into the foundations of deep learning

Proposed research activities should focus on explicit topics involving some of the most challenging theoretical questions in the general area of Mathematical and Scientific Foundations of Deep Learning; a wide range of scientific themes may be addressed. PI teams must collectively possess appropriate expertise in three disciplines - computer science, electrical engineering, and mathematics/statistics. Each project must clearly demonstrate substantial collaborative contributions from members of their respective communities; projects that increase diversity and broaden participation are encouraged. Each collaboration should conduct training through research involvement of postdocs, graduate students, and/or undergraduate students from across this multi-disciplinary spectrum. View

National Science Foundation #21-564 – Future Manufacturing (FM) – Up to $3M – Proposal Due: 5/14/21

Funds cross-disciplinary research to advance new manufacturing capabilities and develop the future workforce

This program supports fundamental research and education of a future workforce to overcome scientific, technological, educational, economic and social barriers in order to enable new manufacturing capabilities that do not exist today. Future Manufacturing will require major advances in technologies and algorithms for the synthesis and production of new materials, chemicals, devices, components and systems of assured quality with high yield at reasonable cost. It will require new advances in artificial intelligence and machine learning, new cyber infrastructure, new approaches for mathematical and computational modeling, new dynamics and control methodologies, new ways to integrate systems biology, synthetic biology and bioprocessing, and new ways to influence the economy, workforce, human behavior, and society. Cross-disciplinary partnerships among scientists, engineers, social and behavioral economists, and experts in arts and humanities may be required to provide solutions that are equitable and inclusive. View

National Science Foundation #21-568 – Boosting Research Ideas for Transformative and Equitable Advances in Engineering (BRITE) – Funding Varies by Track – Proposal Due: 5/25/21

Supports tenured engineering faculty looking to forge new directions or enter new fields

The BRITE program enables and creates opportunities to advance scientific discoveries and new research using a variety of approaches that harness the national talent ecosystem of experienced faculty. Recognizing that a successful faculty research career is neither linear nor continuous, this solicitation seeks proposals that enable experienced researchers and scholars (tenured or equivalent) to forge new directions or to enter new fields by capitalizing or branching out of their established knowledge domains. Proposals should address fundamental research that creates new knowledge in one or more program areas within the NSF Division of Civil, Mechanical and Manufacturing Innovation. Funding is $100K-$200K per year for 2-5 years, depending on Track. There is an informational webinar on March 19, 2021 at 12:00 PM EST. View
Princeton University internal funds – High Meadows Environmental Institute: Biodiversity Challenge – Up to $150K – Proposals Due: 5/30/21

Supports interdisciplinary research, teaching and mentorship in the field of biodiversity

The Thomas A. and Currie C. Barron Family Biodiversity Research Challenge Fund, or Biodiversity Challenge, seeks to catalyze interdisciplinary faculty-led scholarship and research — with a significant undergraduate-focused educational component — that enhances our understanding of biodiversity and examines the effects of environmental change on biodiversity, while exploring what can be done to stem the loss of biodiversity by directly addressing barriers to conservation. Faculty and senior research staff are encouraged to move into a new area of research and/or produce collaborations involving two or more faculty from different academic disciplines and with potential to attract larger external sources of support. View

National Institutes of Health #PAR-19-343 – Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Postdoctoral Career Transition Award to Promote Diversity – Amount TBD – Application Due: 6/12/21

Supports the transition of postdocs from diverse backgrounds into independent faculty members in the biomedical sciences

This MOSAIC program supports a cohort of early career, independent investigators from diverse backgrounds conducting research in NIH mission areas, in order to enhance diversity in the biomedical research workforce. It is designed to facilitate a timely transition of promising postdoctoral researchers from diverse backgrounds from their mentored, postdoctoral research positions to independent, tenure-track or equivalent faculty positions at research-intensive institutions. The program will provide independent NIH research support before and after this transition to help awardees launch successful, independent research careers. View

Previously Announced Funding Opportunities

Russell Sage Foundation – Summer Institute in Behavioral Economics – Amount TBD – Application Due: March 2021 (to be confirmed)

Funds summer training in behavioral economics for grad students, postdocs, and new faculty

The two-week Summer Institute in Behavioral Economics introduces graduate students, postdoctoral researchers, and beginning faculty (within one year of their Ph.D.) in economics and related disciplines to the findings and methods of behavioral economics — the application of psychological theory and research to economics. The program includes topics on psychological foundations such
as decision-making under risk and uncertainty, intertemporal choice, biases in judgment, mental accounting, and social preferences, as well as the implications of these foundations for savings behavior, labor markets, development economics, finance, public policy, and other economic topics. Candidates in related disciplines (e.g., psychology, business, political science and law) who have a strong interest and advanced training in formal economics are welcome to apply. If the event is held in person, most participant costs during the institute, including housing and most meals, are covered, and travel expenses are reimbursed up to a set cap. Usually held every other year, the next Summer Institute is scheduled for August 2021 (to be confirmed). View

Department of Transportation – Small Business Innovation Research (SBIR) Program PHASE I – Usually up to $150K – Application Due: 3/8/21
Supports feasibility-related R&D by small companies on research topics of interest to the DOT
Small businesses, with their valuable resources and creative capabilities, are invited to participate in the DOT’s Small Business Innovation Research (SBIR) program by submitting innovative research ideas and solutions in response to one of the many topics listed in Section VIII of the RFP document (beginning on page 40). Phase I is the conduct of feasibility-related experimental or theoretical research or R/R&D efforts. Under this program, Phase I offers can be funded up to $150K unless otherwise noted in Section VIII. The period of performance of the resulting contract shall be six months. Phase I awardees who have successfully completed Phase I are eligible to submit a Phase II proposal for funding of up to $1M. View

National Science Foundation #21-045 – Pilot Projects to Integrate Existing Data and Data-Focused Cyberinfrastructure to Enable Community-level Discovery Pathways – $300K to $1.5M – Proposals Due: 3/23/21
Funds efforts to manage, integrate, access and use large and diverse scientific datasets to conduct research
Many research communities supported by NSF are challenged by the need to manage, integrate, access, and use ever larger and diverse scientific datasets to conduct research. NSF encourages proposals to the Cyberinfrastructure for Emerging Science and Engineering Research (CESER) program for pilot projects that bring together researchers and CI experts to develop the means of combining existing community data resources and shared data-focused CI into new integrative and highly performing data-intensive discovery workflows that empower new scientific pathways. Proposals are welcomed in all areas of science and engineering research and education supported by NSF. Proposers are encouraged to address, where appropriate, community-scale scientific data challenges stemming from the ongoing pandemic, whether technical in nature or related to broadening participation by, and increasing benefit to, diverse audiences, including groups underrepresented and underserved in STEM. NSF also encourages proposals for pilots involving international collaborations and partnerships aimed to advance global scientific data integration and sharing in science and engineering research and education. View
Princeton University internal funds – Andlinger Center: Maeder Graduate Fellowship in Energy and the Environment – AY21-22 fellowship rate – Faculty Nomination Due: 3/26/21

Graduate student fellowship supporting research in energy and its environmental context
The Andlinger Center’s Paul A. Maeder ’75 Fund for Innovation in Energy and the Environment awards a one-year fellowship each year to a top post-baccalaureate, non-DCE graduate student performing research that explores topics related to energy and/or the environment as impacted by energy. The student may be enrolled in any Ph.D. program on campus and faculty nominations from departments outside of engineering are encouraged. View

National Endowment for the Arts – NEA Research Labs – Up to $150K – Application Due: 3/29/21

Creates a NEA Research Lab to produce empirical insights about the arts
The National Endowment for the Arts is expanding its efforts to build public knowledge about the arts’ contributions to individuals and society through the creation of NEA Research Labs, a series of transdisciplinary research partnerships that are grounded in the social and behavioral sciences. NEA Research Labs will produce and report empirical insights about the arts for the benefit of arts and also for non-arts sectors such as healthcare, education, and business or management. These centers of excellence will define their own related agendas; conduct project activities to implement that agenda; and prepare reports and other products or services that will contribute substantively to a wider understanding of one of three areas of special interest to the Arts Endowment: The Arts, Entrepreneurship, and Innovation; The Arts, Creativity, Cognition, and Learning; and The Arts, Health, and Social/Emotional Well-Being. NEA Research Labs require a confirmed partnership between the applicant organization and a nonprofit arts organization at the time of application. The nonprofit arts organization is expected to contribute substantially to the NEA Research Lab. Applicants are also strongly encouraged to partner with other non-arts or arts organizations (for-profit or nonprofit entities) with expertise in the proposed research topic area. Based on the availability of funding, cooperative agreements of up to $150K will be awarded, and a nonfederal match/cost share of at least 1 to 1 is expected. View


Supports research to advance AI for energy and climate security
The energy industry is being digitally transformed at all levels of production, generation, transmission, and distribution: sensors, data analytics, new privacy-aware markets, and usage of smart meters in homes are all part of this transformation. However, the transformation of energy to be resilient to large environmental changes, faults (including maintenance errors), and cyber-attacks is still a work in progress. The early lead of energy operators in embracing digital transformation has enabled those systems to use digital
transformation not only to enhance energy efficiency but also to lead the way to a lower-carbon, higher-efficiency economy that will enhance both energy and climate security. This Call for Proposals addresses the challenges for AI and Digital Transformation for Energy and Climate Security. Proposals that are interdisciplinary and inter-institutional across C3DTI consortium partner institutions as well as leading research institutions around the world are strongly encouraged. In addition to the cash award, recipients will receive cloud computing, supercomputing, data access and AI software resources and technical support provided by Microsoft and C3 AI. Proposals are required to use the C3 AI Suite and Microsoft Azure to show how the algorithms can be applied to real world data. By submitting a proposal to this solicitation, PIs and co-Investigators agree to serve as reviewers for other proposals submitted to this solicitation. View

Rutgers-Princeton Cancer Institute of New Jersey Consortium – COVID-19 Cancer-Related Pilot Award Program – Up to $65K – Application Due: 3/31/21
Supports cancer-relevant research in the behavioral, social, and related sciences
This program will support ongoing scholarship, and new research, examining issues directly related to COVID-19 and cancer and reducing harm to individuals, groups, and society. Funds must catalyze transdisciplinary research involving behavioral, social, policy-related and/or other types of population science research; catalyze innovative approaches to assessing and addressing COVID-19 and cancer-related issues; and facilitate pilot research that can lead to health policy or future NIH-level funding (e.g., R01, DOD, ACS, etc.). This funding opportunity supports discrete, hypothesis-driven, well-defined projects that can be realistically completed in a one-year period and that require limited levels of funding. COVID-19 projects related to cancer include, but are not limited to, examining the impact of COVID-19 on cancer caregivers, dependents, and relatives, cancer prevention and screening interruptions due to COVID, developing evidence-based communications or outreach services tailored to vulnerable populations, assessing the economic and policy implications of COVID-19 and cancer prevention, financial toxicity, screening, cancer health services, survivorship and/or end-of-life care. Proposals addressing health disparities or presenting a path toward future research and/or health policy will receive priority. Projects co-led by investigators at Rutgers and Princeton are encouraged but not required. See email attachment above.

LG Chem Ltd. – LG Chem Global Innovation Challenge 2021 – Up to $150K per year – Proposals Due: 3/31/21
Supports innovative research in a number of scientific fields
The LG Chem Global Innovation Challenge 2021 (GIC 2021) will support scholars with up to $150K per year for multi-year research activities. Winners may also have the opportunity to collaborate with LG Chem’s R&D teams. Scholars who have novel ideas to share with LG Chem are encouraged to apply. This program is a platform for research collaboration designed by LG Chem that will be initiated with novel proposals from universities and research institutions from all over the world. Participants are encouraged to send proposals in energy, sustainability, advanced materials, digital
Cancer Research Institute – CRI Irvington Postdoctoral Fellowship Program – $175,500 – Application Due: 4/1/21

Postdoc fellowships in the broad field of immunology with relevance to solving the cancer problem

The CRI Irvington Postdoctoral Fellowship Program supports qualified young scientists at leading universities and research centers around the world who wish to receive training in fundamental immunology or cancer immunology. CRI seeks hypothesis-driven, mechanistic studies in both immunology and tumor immunology. The applicant and sponsor should make every effort to demonstrate the potential of the proposed studies to directly impact understanding of the immune system’s role in cancer. Application deadlines are April 1 and October 1.

Also, in collaboration with the Fibrolamellar Cancer Foundation, CRI has secured limited funding for additional postdoctoral fellowships for candidates whose projects are focused on understanding the immunological response to fibrolamellar carcinoma and accelerating the development of effective immunotherapy treatments for this rare, aggressive liver cancer that occurs predominantly in otherwise healthy adolescents and young adults. Applicants should submit to the general CRI Irvington Postdoctoral Fellowship Program and any application in this area will be considered eligible for this special funding opportunity.

Breakthrough Prize* – 2022 Breakthrough Prizes in Fundamental Physics, Life Sciences & Mathematics – $50K to $3M – Nominations Due: 4/1/21

Honors top—as well as promising early-career—scientists and mathematicians

The Breakthrough Prize, the world’s largest science prize, honors top scientists, handing out three prizes in Life Sciences, one in Fundamental Physics and one in Mathematics. Each prize comes with a $3M award. In addition, a number of smaller prizes are awarded to promising early-career scientists and mathematicians. While self-nominations are prohibited, anyone may nominate another person for the Breakthrough Prizes.

- One Breakthrough Prize in Fundamental Physics ($3M) will recognize an individual(s) who has made profound contributions to human knowledge. It is open to all physicists – theoretical, mathematical and experimental – working on the deepest mysteries of the Universe. The prize can be shared among any number of scientists. Nominations are also open for the New Horizons in Physics Prize, which will include up to three $100K awards for early-career researchers who have already produced important work in their fields.

- Up to three Breakthrough Prizes in Life Sciences ($3M each) will be awarded to individuals who have made transformative advances in understanding living systems and extending human life. One of the prizes is designated for work contributing to the understanding of Parkinson’s disease or other neurodegenerative disorders.

- One Breakthrough Prize in Mathematics ($3M) will be awarded to an individual who has made outstanding contributions to the field of mathematics. Nominations are also open for the New Horizons in
**Mathematics Prize**, which will include up to three $100K awards for early-career researchers who have already produced important work in their fields. In addition, up to three $50K **Maryam Mirzakhani New Frontiers Prizes** will be presented to early-career women mathematicians who have completed their PhDs within the previous two years (2019, 2020). View

*The Breakthrough Prizes are sponsored by the personal foundations established by Sergey Brin, Priscilla Chan and Mark Zuckerberg, Ma Huateng, Jack Ma, Yuri and Julia Milner, and Anne Wojcicki.*

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Supports *faculty in the Natural Sciences (including Mathematics and Psychology) with new and emerging research ideas*

This fund is designed to support the exploration of new concepts and ideas that are at an early stage and therefore not ready to form the basis of a competitive proposal submitted to a funding agency. Assistant, associate and full professors in Division III (natural sciences, including mathematics and psychology) are invited to submit proposals. View

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**Simons Foundation – Simons Collaboration on the Global Brain (SCGB) Bridge to Independence (BTI) Award – $495K – Application and Letters of Recommendation Due: 4/5/21**

Supports *neuroscientists searching for a first faculty position by committing research funds for use at the start of their professorship*

The BTI Award program aims to facilitate the transition of the next generation of systems and computational neuroscientists to research independence by providing grant funding at the start of their professorships. It is aimed at Ph.D. and M.D.-holding scientists who are currently in training positions and intend to seek tenure-track research faculty positions during the upcoming academic job cycle. This program is designed to enhance the BTI fellows’ job prospects by providing a letter that specifies SCGB financial commitment to the research project once the BTI fellow has secured a suitable faculty position. Applications are especially encouraged from populations underrepresented in the scientific workforce, including but not limited to: racially underrepresented individuals, women, individuals with disabilities, individuals from disadvantaged backgrounds, and members of the LGBTQ+ community. View

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**Simons Foundation – Targeted Grants in Mathematics and Physical Sciences – Amount TBD – Letter of Intent: accepted on a rolling basis**

Supports *high-risk theoretical mathematics, physics, and computer science projects of exceptional promise*

The Targeted Grants in MPS program is intended to support high-risk theoretical mathematics, physics and computer science projects of exceptional promise and scientific importance on a case-by-case basis, and provides funding for up to five years. The funding level and duration is flexible and should be appropriate based on the type of support requested in the proposal. PIs and co-Investigators must have a Ph.D. and a tenure-track or tenured...
position at the time of application. There are no citizenship or department requirements for PIs. View


Supports transformational research on early-stage high-potential, high-impact energy technologies
ARPA-E funds research on and the development of high-potential, high-impact energy technologies that are too early for private-sector investment. The agency focuses on technologies that can be meaningfully advanced with a modest investment over a defined period of time in order to catalyze the translation from scientific discovery to early-stage technology. Areas of research responsive to this FOA include (but are not limited to) electricity generation by both conventional and renewable means; electricity transmission, storage, and distribution; energy efficiency for buildings, manufacturing and commerce, and personal use; and all aspects of transportation, including the production and distribution of both renewable and non-renewable fuels, electrification, and energy efficiency in transportation. Applicants should address the potential impact of the proposed technology on the agency’s Mission Areas: reducing imported energy, reducing energy-related emissions, and improving energy efficiency. NOTE: The submission deadline for Concept Papers is 9:30 a.m. on April 6, 2021. View and View

Camille & Henry Dreyfus Foundation – Machine Learning in the Chemical Sciences and Engineering – Amount TBD – Proposal Due: 4/8/21

Supports advances in machine learning and related aspects of data science to benefit the chemical sciences and engineering
This program provides funding for innovative projects in any area of Machine Learning (ML) that demonstrate potential to significantly stimulate and accelerate the development of the use of ML and other related aspects of data science to the Chemical Sciences and Engineering. Proposed projects should contribute new fundamental chemical insight and innovation in the field. PIs are limited to one proposal annually. View

Princeton University internal funds – Art & Archaeology: Barr Ferree Publication Fund – Amount TBD – Application Due: 4/15/21

Supports the publication expense of books of merit on architecture and related topics in the fine arts
Press Subventions for enhancements to publications and the cost of reproduction fees charged by image collections for books on architecture and related topics in the fine arts, including but not limited to, sculpture, painting, engraving, music, drawing, landscape design, city planning, and industrial arts. Projects must be the product of primary research by current Princeton faculty members, librarians, curators or other academic professionals with continuing appointment, or based on doctoral research by former Princeton Ph.D.s (ordinarily only up to fifteen years after the Ph.D. defense date).
Applicants are expected to explore fully other sources of support, both inside and outside the University, before requesting a Barr Ferree Publication Fund grant, particularly in connection with projects requiring sizable expenditures. The review committee is favorably disposed to match departmental support, and grants to complement other support will be made whenever possible. There are two submission deadlines each year: April 15 and November 15. View

Princeton University internal funds – High Meadows Environmental Institute: Walbridge Fund Graduate Award for Environmental Research - $10K – Application Due: 4/16/21

Provides dissertation support to graduate students doing research on a variety of environmental topics

This award provides up to $10K in research funding to post-generals graduate students pursuing innovative research on climate science, energy solutions, environmental policy or, more broadly, on other environmental topics. Projects from a broad range of disciplines are eligible; Princeton graduate students from any department can apply. Funds are for dissertation support, and may be used for a range of purposes, including fieldwork, travel, conference participation, equipment purchases, and costs associated with data analysis and facilities use. The funds cannot be used for tuition support or indirect costs. Awards are for one year and are nonrenewable. View

National Science Foundation #21-554 – Designing Accountable Software Systems (DASS) – $750K – Proposal Due: 4/19/21

Funds interdisciplinary collaborations investigating the relationship between software systems and their social-legal contexts

The DASS program solicits foundational research aimed towards a deeper understanding and formalization of the bi-directional relationship between software systems and the complex social and legal contexts within which software systems must be designed and operate. It will support well-conceived collaborations between researchers in computer and information science and engineering together with researchers in law and social, behavioral, and economic sciences to jointly develop rigorous and reproducible methodologies for understanding the drivers of social goals for software and for designing, implementing, and validating accountable software systems. Proposals for this program must create general advances in both (1) understanding the social, behavioral, economic and/or legal context of software design; and (2) improving the methodology for designing accountable software beyond specific use cases. Each proposal must have at least one Principal Investigator (PI) or co-PI with expertise in software design and at least one PI with expertise in law or a social, behavioral, or economic science. All proposals must contain a detailed collaboration plan. View


Funds innovative early-stage projects within and across the fields of social justice, the environment, and heritage conservation

The J.M.K. Innovation Prize seeks to identify, support, and elevate innovators who are spearheading transformative early-stage projects in the fields of social
justice, the environment, and heritage conservation. The Prize seeks out visionary non-profit and mission-driven for-profit organizations that work within, across, or in a manner related to one or more of these three areas. In 2021, up to ten Prizes will be awarded, each including a cash award of $150K over three years, plus $25K in technical assistance funds. Awardees also receive guidance through the Fund and its resource network, providing tools and training that can help turn innovative ideas into life-changing social impacts. View

National Science Foundation #21-559 – National Robotics Initiative 3.0: Innovations in Integration of Robotics (NRI-3.0) – $250K to $1.5M – Proposal Due 5/3/21
Supports fundamental research on innovative integration of robotics technologies
The NRI-3.0 program seeks fundamental research on integrated robot systems and builds upon the previous NRI programs to focus on innovative integration of robotics technologies. Proposals should demonstrate that the proposed system will enable new functionality or significantly improve upon the state of the art of integrated robotics. The program seeks to strengthen the robotics research community, fostering innovation and workforce development, accelerating progress, demonstrating novel capabilities, and building ecosystems for innovation. It aims to promote new integrated approaches to the challenges of accountability, interoperability, ethical operation and trust which will be engendered by integrated functional ubiquitous robots; cross-disciplinary projects are encouraged. Collaboration among academic, industry, government, non-profit, and other organizations is encouraged to establish better linkages between fundamental science and engineering and technology development and use, through partnerships among researchers, applications developers, users, and industry. International collaborations that enhance and add significant value to the proposed research and education activities will also be considered. View

National Science Foundation #21-560 – Understanding the Rules of Life: Emergent Networks (URoL:EN) Predicting Transformation of Living Systems in Evolving Environments – Up to $3M – Proposal Due: 5/10/21
Supports interdisciplinary research that contributes to understanding emergent networks of living systems
The goal of the URoL:EN program is to foster crosscutting convergent research that integrates perspectives and research approaches from more than one scientific discipline. This solicitation will support efforts to understand "rules of emergence" for networks of living systems and their environments. Emergent networks describe the interactions among organismal, environmental, social, and human-engineered systems that are complex and often unexpected given the behaviors of these systems when observed in isolation. Successful projects of the URoL:EN program are expected to use convergent approaches that explore emergent network properties of living systems across various levels of organizational scale and, ultimately, contribute to understanding the rules of life through new theories and reliable predictions about the impact of specific environmental changes on behaviors of complex living systems, or engineerable interventions and technologies based on a rule of life to address associated outcomes for societal benefit. The convergent
scope of URoL:EN projects also provides unique STEM education and outreach possibilities to train the next generation of scientists in a diversity of approaches and to engage society more generally. The URoL:EN program encourages research projects that integrate training and outreach activities in their research plan, provide convergent training opportunities for researchers and students, develop novel teaching modules, and broaden participation of under-represented groups in science. View

Do you know of an upcoming funding opportunity that should be shared with your Princeton colleagues? Please email it to res_fund@princeton.edu at least four weeks prior to the application due date, and we'll include it in an upcoming Funding Announcement and/or add it to the Princeton Research Funding Gateway. Thank you!

Best regards,
Coleen Burrus
Director