Research Funding Announcement
December 20, 2021
Opportunities Recently Added to the Gateway

Each issue of the Research Funding Announcement contains a curated selection of the many funding opportunities that are continuously being issued by industry, foundations, nonprofit organizations, and the federal government. Visit the Princeton Research Funding Gateway to search for more funding opportunities in your particular areas of interest.

Alerts and Notices

The new Princeton-led National Science Foundation Innovation-Corps (I-Corps) Northeast Hub will launch in January to provide entrepreneurial training, mentoring, and resources to enable researchers to translate their discoveries into benefits for society. Researchers (faculty, staff, postdocs, grad students and undergrads) at any northeast-region university who want to explore translation of their science or technology discovery are invited to take the Hub’s 4-session short course starting in February. Fill out the interest form on the Hub’s website to be contacted when registration opens, or to share your interest in becoming a mentor or instructor.

REMINDER Princeton Innovation has launched the START Entrepreneurs program to help develop budding entrepreneurs and ensure that University innovations become available to the broader public. Designed to foster diversity, equity, and inclusion, this full-time, salaried, 30-month program combines research and accelerator experiences with entrepreneurial education and mentorship. Participants (who must have earned an advanced degree prior to September 1, 2022) will develop a research discovery in a University lab, and then move it toward the product stage via a startup at Princeton’s innovation center. Up to $400K will be available per participant. Apply by January 2, 2022.

With sponsorship from NSF, the University Industry Demonstration Partnership (UIDP), a recognized leader in addressing issues impacting academic-corporate collaboration, has been hosting a two-part workshop, University-Industry Partnerships in the Social Sciences, convening a diverse group of experts and leaders from academia, industry, and government to consider how academic-corporate partnerships can advance social, behavioral, and organizational science research to positively impact science and society. Part 1 was a virtual workshop on October 14 (see recording and materials), and Part 2 will be an in-person workshop at the University of Maryland, College Park, on April 20-21, 2022 (registration is now open).

The National Endowment for the Arts is offering a Grants for Arts Projects guidelines webinar for potential applicants on January 12, 2022 from 3:00-4:00 pm. Click here to register. If you
are not able to attend the webinar, an archive will be available.

The Corporate Engagement and Foundations Relations team is available to assist faculty with proposal development and submission. The Office of the Dean for Research is available to assist faculty with collaborative federal proposals for centers and institutes, training grants, and equipment grants, as well as initiatives that advance strategic priorities such as diversity, equity, and inclusion.

We welcome the opportunity to work with you.

Selected Upcoming Funding Opportunities
(Go to the Princeton Research Funding Gateway to search for additional opportunities that meet your areas of interest)

Department of Energy #DE-FOA-0002555 – Small Business Innovation Research (SBIR) & Small Business Technology Transfer (STTR): FY 2022 Phase I Release 2 – Amount Varies by Topic – Mandatory Letter of Intent Due: 1/3/22 by 5:00 pm
Assists small companies with strong research capabilities to evaluate the scientific/technical merit and feasibility of ideas with commercial potential

HUMANITIES & SOCIAL SCIENCES
Princeton University Internal Funds – Dean of the College: Collaborative Teaching Initiative in the Humanities & Social Sciences – Amount Varies – Proposal Due: 1/14/22
Allows post-generals graduate students to co-design and co-teach an undergraduate course at Princeton with a faculty mentor

National Institutes of Health #RFA-NS-22-011 – BRAIN Initiative: Research Resource Grants for Technology Integration and Dissemination – Amount Varies – Requested Letter of Intent Due: 1/15/22 by 5:00 pm
Supports efforts to rapidly disseminate proven technologies and resources to meet compelling needs of the neuroscience research community

National Science Foundation #NSF 21-571 – Broadening Participation in Computing (BPC) – $200K to $6M; Varies by Category – Proposal Due: 1/20/22 by 5:00 pm
Engages the computing community in ways to increase the number of Americans receiving post-secondary degrees in the computing disciplines

Amazon Research – Alexa Fairness in AI: Alexa AI-Natural Understanding – Up to $80K + AWS Promotional Credits – Proposal Due: 1/21/22 by 11:59 pm PT
Funds efforts to build and enable engaging, world-class conversational AI capabilities that are broadly accessible

Simons Foundation – Collaboration Grants for Mathematicians – $8,400 to $42K – Application Due: 1/26/22
Stimulates collaboration in the field primarily through the funding of travel and related expenditures

ALL DEPARTMENTS
Princeton University Internal Funds – Council on Science and Technology (CST): Annual Call for Proposals (Faculty Funding) – Amount Varies – Proposal Due: 1/28/22
*Funds courses and co-curricular activities that advance science, technology, engineering, and mathematics (STEM) literacy among Princeton students* View

Department of Energy – EnergyTech University Prize – Amount Varies – Submission Package Due: 1/31/22
*Student teams identify a high-potential energy technology, assess its market potential, and propose a strategy for commercialization* View

New Jersey Economic Development Authority – Catalyst Seed R&D Grant Program – $75K to $150K – Application Due: 1/31/22 by 5:00 pm
*Helps NJ early stage innovation-based companies to transform new discoveries from research stage into commercially viable products and services* View

Nagamori Foundation – Nagamori Awards – ¥2M or ¥5M – Application Due: 1/31/22
*Recognizes outstanding achievement in fields related to motors/actuators/power generators, and their control methods/application technologies, etc.* View

ALL DEPARTMENTS
*Members of the RSE team provide dedicated software development expertise and services to Princeton-led research projects* See attachment for more information

National Science Foundation #21-531 – Designing Synthetic Cells Beyond the Bounds of Evolution – $500K to $2M – Proposal Due: 2/1/2022 by 5:00 pm
*Supports research on designing and building synthetically modified cells* View

National Institutes of Health #RFA-HG-22-001 – Supporting Talented Early Career Researchers in Genomics – Up to $2.5M – Requested Letter of Intent Due: 2/4/22 by 5:00 pm
*Funds research by exceptional Early Stage Investigators with a long-term career interest in pursuing innovative research in genomics* View

HUMANITIES
National Endowment for the Arts #2022NEA01GAP1 – Grants for Arts Projects – $10K to $100K (Cost Share or Match Required) – Part 1 Submission Due: 2/10/22
*Supports public engagement with art, creation of art, life-long learning in the arts, and the integration of the arts into community life* View

National Science Foundation #20-531 – Algorithms for Threat Detection – $150K to $300K – Proposal Due: 2/16/2022 by 5:00 pm
*Supports development of novel algorithms for analysis of geospatial datasets to model human dynamics* View
New York Stem Cell Foundation – Stem Cell Investigator Award – Up to $1.5M – Application Due: 2/16/2022 by 5:00 pm  
*Provides funding to early-career faculty researchers for innovative stem cell research*  
[View](#)

New York Stem Cell Foundation – Neuroscience Investigator Award – Up to $1.5M – Application Due: 2/16/22 by 5:00 pm  
*Provides funding to early-career faculty for innovative research in all fields of neuroscience*  
[View](#)

National Science Foundation #22-520 – Navigating the New Arctic: Incubator, Research, & Collaboratory Grants – Amount Varies by Track – Proposal Due: 2/16/22 by 5:00 pm  
*Funds convergence research across the sciences and engineering that informs understanding of Arctic change and its local and global effects*  
[View](#)

National Science Foundation #22-526 – Ethical and Responsible Research – Amount Varies by Project Type – Proposal Due: 2/17/22 (Target Date)  
*Supports formation/dissemination of ethical academic & research practices; fosters institutional cultures that expect/reward academic & research integrity*  
[View](#)

National Science Foundation #21-546 – Enabling Discovery through GEnomics (EDGE) – Up to $2M – Proposal Due: 2/17/22 by 5:00 pm  
*Funds development of innovative tools/technologies/resources/infrastructure to advance understanding of comparative and functional genomics*  
[View](#)

**ALL DEPARTMENTS**
*Provides funding for collaborative projects across all disciplines between early-career researchers in the U.S. and France*  
[View](#)

Ewing Marion Kauffman Foundation – Knowledge Challenge – $200K to $400K – Stage 1 Application Due: 2/28/22 by 11:59 pm (CST)  
*Funds activities that improve understanding of entrepreneurship and generate actionable evidence to inform decision making and change systems*  
[View](#)

Simons Foundation – Autism Research Initiative: Bridge to Independence Award Program – $495K – Letter of Intent & Recommendations Due: 2/28/22 by 5:00 pm  
*Engages postdocs in autism research by facilitating their transition to research independence and providing grant funding as new faculty*  
[View](#)

Global Probiotics Council – Young Investigator Grant for Probiotics Research – $50K – Application Due: 3/1/22  
*Contribute to the advancement of probiotics and gastrointestinal microbiota research for human health applications*  
[View](#)

NJ Department of Environmental Protection – Recycling Enhancement
Act Research Grant Program – Up to $1.07M – Application Due: 3/1/22 by 4:00 pm  
Funds recycling demonstration/research/education projects; 2022 categories: solar panels, electric vehicle batteries, biodegradable/compostable plastics, other projects  
View

National Science Foundation #22-532 – Understanding the Rules of Life: Predicting Transformation of Living Systems in Evolving Environments – Up to $3M – Proposal Due: 3/1/22 by 5:00 pm  
Fosters crosscutting research to increase understanding of "rules of emergence" for networks of living systems and their environments  
View

National Science Foundation #22-513 – Organismal Response to Climate Change: Expanding Understanding and Improving Predictions of Life on a Warming Planet – Amount Varies – Proposal Due: 3/1/22 by 5:00 pm  
Supports research across biological disciplines to anticipate adaptive/maladaptive organismal responses to new environmental conditions  
View

National Science Foundation #22-533 – Future of Work at the Human-Technology Frontier: Core Research – $150K to $4M – Proposal Due: 3/2/22 by 5:00 pm  
Funds multi-disciplinary or convergent research that addresses technological, human, and societal dimensions of future work  
View

National Science Foundation #NSF 22-534 – Addressing Systems Challenges through Engineering Teams (ASCENT) – $1M to $1.5M – Mandatory Preliminary Proposal Due: 3/2/22 by 5:00 pm  
Supports collaborations to create new knowledge and disruptive innovations in microelectronics and their enabling semiconductor technology  
View

Didn't see anything that matches your current need for funding? Try searching the Princeton Research Funding Gateway.

Previously Announced Funding Opportunities – December 9, 2021

Merck KGaA – Future Insight Prize – Up to €1,000,000 – Nomination Due: 12/31/21  
Honors achievements in science and technology toward an innovation important for the future of humanity; 2022 topic: Energy–CO2 Conversion  
View

IBM Research – Herman Goldstine Postdoctoral Fellowship in Mathematical and Computer Sciences – $150K – Application Due 12/31/21  
Provides outstanding young scientists the opportunity to advance their scholarship as resident department members at an IBM Research lab  
View

Moderna – Research Fellowship – $175K to $525K – Application Due: 12/31/21  
Supports research fellowships in mRNA therapeutics and in disease areas currently
Greenwall Foundation – Making a Difference in Real-World Bioethics Dilemmas – Amount Varies – Mandatory Letter of Intent Due: 1/4/22 by 11:59 pm
Supports research on emerging or unanswered bioethics problems in clinical, biomedical or public health decision-making, policy or practice

Department of Energy #DE-FOA-0002585 – Scientific Discovery Through Advanced Computing: Partnerships in Earth System Model Development – $5M to $15M – Mandatory Pre-Application Due: 1/13/22 by 5:00 pm
Funds collaborations using DOE high performance computers to advance Earth system modeling via mathematical and computational solutions

HUMANITIES
Princeton University Internal Funds – Humanities Council: Co-Sponsorships – Up to $2,500 – Funding Request Form Due: 1/24/22
Helps fund humanities-related programs (e.g., conferences/workshops/colloquia, lectures/readings/performances, interdisciplinary courses, reading groups)

HUMANITIES & SOCIAL SCIENCES
Spencer Foundation – Large Research Grants on Education – $125K to $500K – Mandatory Intent to Apply Due: 1/26/22 by 1:00 pm
Funds research that is relevant to the most pressing questions and compelling opportunities in education

L’Oréal USA – For Women in Science Fellowship Program – $60K – Application Due: 1/28/22 by 11:59 pm
Supports exceptional female scientists looking to advance their research and serve as role models for the next generation of girls in STEM

Welch Foundation – Robert A. Welch Award in Chemistry – $500K – Nomination Due: 1/31/22
Fosters basic chemical research and recognizes the value of chemical research contributions for the benefit of humankind

American Cancer Society – Research Professor Grants – Up to $400K – Mandatory Letter of Intent Due: 2/1/22
Supports investigators (full professor for 15 years or less) who have made seminal contributions that changed the direction of basic cancer research

ALL DEPARTMENTS
Princeton University Internal Funds – Dean of the College: 250th Anniversary Fund for Innovation in Undergraduate Education – Amount Varies – Proposal Due: 1/31/22
Supports innovation in the undergraduate curriculum through new or reimagined courses in any subject at any level
Princeton University Internal Funds – Humanities Council: Old Dominion Research Professors – Amount Varies – Application Due: 2/1/22

Provides additional research time for Princeton faculty (at full professor level) and to enhance the humanities community more broadly  

National Science Foundation #NSF 19-551 – Growing Convergence Research – Up to $1.2M – Proposal Due: 2/7/22 by 5:00 pm

Funds multidisciplinary team research addressing grand and complex problems at the nexus of traditional disciplines  

National Science Foundation #NSF 22-525 – Partnerships in Astronomy & Astrophysics Research and Education – Amount Varies – Proposal Due: 2/7/22 by 5:00 pm

Funds partnerships to build research capacity and foster a diverse, inclusive environment for astronomy and astrophysics research/education  

National Science Foundation #NSF 21-516 – Mid-Career Advancement – Amount Varies – Proposal Due: 2/7/22 by 5:00 pm

Allows Associate Professors to markedly advance their research program through synergistic partnerships (NSF Directorates: BIO, GEO, ENG, SBE, HER)  

National Science Foundation #NSF 22-516 – Office of Polar Programs Postdoctoral Research Fellowships – $160K – Proposal Due: 2/7/22 by 5:00 pm

Provides fellowships for postdocs new to polar research (including social scientists) or who propose applying techniques new to polar science  

National Institutes of Health #PAR-21-128 – NCI Transition Career Development Award – $150K to $450K – Application Due: 2/12/22 by 5:00 pm

Supports postdocs transitioning to tenure-track faculty positions in cancer research  

National Science Foundation #NSF 21-517 – Integrative Strategies for Understanding Neural and Cognitive Systems – $500K to $3M – Proposal Due: 2/14/22 by 5:00 pm

Supports innovative, boundary-crossing research seeking to understand complex aspects of neural and cognitive systems  

Esther A. & Joseph Klingenstein Fund – Klingenstein-Simons Fellowship Awards in Neuroscience – $225K – Application Due: 2/15/22 by 11:59 pm

Supports early-career faculty seeking to understand the mechanisms underlying neurological and behavioral disorders  

National Science Foundation #NSF 22-519 – Internet Measurement Research: Methodologies and Methods (Track 1) – Up to $600K – Proposal Due: 2/15/22 by 5:00 pm

Supports methodologies for Internet measurement spanning access (both wireless and fixed broadband) and core Internet
National Science Foundation #NSF 20-613 – Formal Methods in the Field – $100K to $750K – Proposal Due: 2/15/22 by 5:00 pm
Brings together researchers in formal methods with those in other areas of computer/information science and engineering to jointly develop rigorous methodologies

National Science Foundation #NSF 21-559 – National Robotics Initiative 3.0: Innovations in Integration of Robotics – $250K to $1.5M – Proposal Due: 2/22/22 by 5:00 pm
Funds cross-disciplinary, collaborative research in the innovative integration of robotic technologies to the benefit of humans

Agilent Technologies – Early Career Professor Award – $120K – Nomination Due: 2/25/22
2022 topic area: development of AI/Machine Vision technologies for intuitive Collaborative Robots as a flexible next-gen workforce in manufacturing

Princeton University Internal Funds – SPIA: Overdeck Education Innovation Fund – Up to $10K – Letter of Intent Due: Accepted on a Rolling Basis
Supports creative, interdisciplinary programs, and faculty and student research projects, that address important issues in K-9 education

Princeton University Internal Funds – Data-Driven Social Science Initiative (DDSS): Small-Scale Grants – Up to $5K – Application Due: Accepted on a Rolling Basis
Funds development of new project ideas, working groups, data sets, data management, research infrastructure, and seminars/conferences

HUMANITIES
Princeton University Internal Funds – Humanities Council: Faculty Outreach Grants – Amount Varies – Proposal Due: Accepted on a Rolling Basis
Supports public humanities ventures such as events/co-sponsorships with public/nonprofit/community organizations, or humanities programming

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