

From: bounce-124781497-13396590@list.cornell.edu on behalf of [Research Development at Cornell University](#)
To: [CU-RES-ADMIN-L](#)
Subject: Research Funding & Engagement Opportunities - July 16, 2020
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To the Cornell University community,

The following upcoming funding and engagement opportunities may be of interest.

NOTE: If you intend to submit to a funding opportunity, please notify your college or department research administration office, or the Office of Sponsored Programs.

For assistance with internal proposal development, including consultation on proposal strategy; identifying sponsor-specific proposal strategies; coordinating project team meetings; identification of additional campus resources; management of proposal schedule; drafting letters of commitment from Cornell and any partner institutions; and liaising between your proposal team and OSP, please [contact Research Development](#).

All digests can now also be viewed on the [Research Funding Announcement Digests](#) webpage.

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TRAININGS & OTHER ENGAGEMENT OPPORTUNITIES

NIH Pre-Application Webinar for MIRA for Early Stage Investigators (R35 - Clinical Trial Optional)

Thursday, August 6, 2020 at 1:00 PM EDT

[Information for joining the webinar](#)

The National Institutes of Health (NIH) NIGMS will host a webinar to provide advice and respond to questions from prospective applicants who plan to submit applications to [PAR-20-117](#) “Maximizing Investigators’ Research Award (MIRA) for Early Stage Investigators (R35 - Clinical Trial Optional).” Participation in the webinar, although encouraged, is optional and is not required for the submission of an application.

NIH Virtual Regional Seminar of Program Funding and Grants Administration October 26-30, 2020

In place of the Fall 2020 in-person seminar, NIH has begun making plans for a virtual seminar during the week of October 26-30, [free-of-charge for the extramural research community](#). The NIH Regional Seminar serves the NIH mission of providing education and training for the next generation of biomedical and behavioral scientists. This seminar is intended to: 1) demystify the application and review process; 2) clarify federal regulations and policies; and 3) Highlight current areas of special interest or concern. The seminar and optional workshops are appropriate for those who are new to working with the NIH grants process – administrators, early stage investigators, researchers, graduate students, etc. For those with more experience, the seminar offers a few more advanced sessions, updates on policies and processes direct from NIH staff, as well as valuable presentation resources to share with your institution. Once the details have been finalized, all of the necessary information will be shared on the [NIH Regional Seminar Homepage](#) and in a future [NIH Guide Notice](#).

NIH Early Career Reviewer (ECR) Program [ECR Program Page](#)

The ECR Program aims to help early career scientists (Assistant Professor level or equivalent) become more competitive as grant applicants through first-hand experience with peer review and to enrich and diversify the Center for Scientific Review's (CSR) pool of trained reviewers. Benefits of becoming an ECR:

- Work side-by-side with some of the most accomplished researchers in your field to help NIH identify the most promising grant applications
- Learn how reviewers determine overall impact scores
- Improve your own grant writing skills by getting an insider’s view of how grant applications are evaluated
- Serve the scientific community by participating in NIH peer review
- Develop research-evaluation and critique-writing skills

Virtual Nature Masterclasses

[Nature Masterclasses](#) offers advice and insights from the editors at [Nature](#) about scientific writing, publishing, authorship, and peer review. Access to Nature Masterclasses at Cornell is provided by the Graduate School, the Office of Faculty Development and Diversity, the Office of Research, and the Office of the Vice Provost for Undergraduate Education.

- [Register an account](#) on the [Nature Masterclasses website](#). You may be prompted to login with your Cornell NetID if you are off-campus, then register for the site with a valid email address to access videos and other materials. Topics include:
 - Planning and Writing a Paper, including what makes a great paper, writing your introduction through conclusion, and data management
 - Submitting to a Journal, including selecting a journal for publication, presenting data,

- and understanding the editorial process
- Publication and Authorship, including understanding peer review, authorship, and author responsibilities

DOE High Energy Physical Advisory Panel (HEPAP)

The Department of Energy (DOE) Office of High Energy Physics HEPAP met on July 9-10, 2020.

Reports and presentations from this meeting are available at

<https://science.osti.gov/hep/hepap/Meetings/202007>.

FEDERAL FUNDING

NEH Media Projects

[20200812-TD-TR](#)

Applications: August 12, 2020 and January 6, 2021

Anticipated award amount: varies depending on project level

The National Endowment for the Humanities (NEH) Division of Public Programs is accepting applications for the Media Projects program. The purpose of this program is to support collaboration between media producers and scholars to develop humanities content and to prepare documentary film, television, radio, and podcast projects that engage public audiences with humanities ideas in creative and appealing ways. All projects must be grounded in humanities scholarship. Media Projects makes awards at two levels: Development and Production.

NIH BRAIN Initiative: Theories, Models and Methods for Analysis of Complex Data from the Brain (R01 Clinical Trial Not Allowed)

[RFA-EB-20-002](#)

Letters of Intent: August 14, 2020. Applications: September 14, 2020

Anticipated award amount: expected to range from \$150,000 to \$250,000 per year for 3 years

This FOA solicits the development of theories, computational models, and analytical tools to derive understanding of brain function from complex neuroscience data. Proposed projects could develop tools to integrate existing theories or formulate new theories; conceptual frameworks to organize or fuse data to infer general principles of brain function; multiscale/multiphysics models to generate new testable hypotheses to design/drive future experiments; new analytical methods to either support or refute a stated hypothesis about brain function. It is expected that the tools developed under this FOA will be made widely available to the neuroscience research community for their use and modification. Investigative studies should be limited to model parameter estimation and/or validity testing of the tools being developed.

NIH Community Interventions to Address the Consequences of the COVID-19 Pandemic among Health Disparity and Vulnerable Populations (R01- Clinical Trial Optional)

[PAR-20-237](#)

Applications: August 28 and December 1, 2020

Anticipated award amount: up to \$500,000 direct costs per year for up to 5 years

This FOA encourages applications to implement and evaluate community interventions testing

1) the impacts of mitigation strategies to prevent COVID-19 transmission in NIH-designated health disparity populations and other vulnerable groups; and 2) already implemented, new, or adapted interventions to address the adverse psychosocial, behavioral, and socioeconomic consequences of the pandemic on the health of these groups.

NIH BRAIN Initiative: Proof of Concept Development of Early Stage Next Generation Human Brain Imaging (R01 Clinical Trial Not Allowed)

[RFA-EB-20-001](#)

Applications: September 3, 2020 and 2021

Anticipated award amount: up to \$300,000 for up to 2 years

This FOA, in support of the NIH Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative, aims to support early stage development of entirely new noninvasive imaging methods or unusually bold approaches for existing noninvasive imaging methods that will lead to transformative advances in our understanding of the function and connectivity of the human brain. The FOA solicits small-scale projects to prove exceptionally innovative, original and/or unconventional concepts.

NIH Social Epigenomics Research Focused on Minority Health and Health Disparities (R01-Clinical Trial Not Allowed)

[PAR-19-372](#)

Applications: November 6, 2020

Application budgets are not limited but need to reflect the actual needs of the proposed project. Maximum project period is 5 years.

The purpose of this Funding Opportunity Announcement (FOA) is to support and accelerate human epigenomic investigations focused on identifying and characterizing the mechanisms by which social experiences at various stages in life, both positive and negative, affect gene function and thereby influence health trajectories or modify disease risk in racial/ethnic minority and other health disparity populations. The overarching objectives of this initiative are to 1) advance understanding of mechanisms by which social factors lead to epigenetic changes that affect minority health and/or health disparities, and (2) promote epigenetics research to better predict disease risk or resiliency among health disparity populations. Projects should focus on one or more health disparity populations in the U.S. and will support human-based epigenomic research with a particular focus on examining epigenetic modifications that are of social origin or are substantially influenced at a population level by social processes. Projects are encouraged to consider the influence of resiliency or protective factors that may buffer some of the adverse effects across the life span in health disparity populations. Projects may cover any range of topic areas and designs, including basic, translational, epidemiological or observational studies or secondary data analysis in one or more health disparity populations.

NSF SBE Cognitive Neuroscience

[PD 15-1699](#)

Applications: August 13, 2020

Average award size: \$175,000 per year for 3 years

The National Science Foundation announces the area of Cognitive Neuroscience within the Division of Behavioral and Cognitive Sciences (SBE) in the Directorate for Social, Behavioral, and Economic Sciences. The Cognitive Neuroscience Program seeks highly innovative proposals aimed at advancing a rigorous understanding of the neural mechanisms of human cognition.

Central research topics for consideration by the program include attention, learning, memory, decision-making, language, social cognition, and emotions. Proposals with animal models are appropriate only if they include a comparative element with human subjects. Proposals focused on behavioral, clinical or molecular mechanisms will not be considered for this program. Additionally, proposals directed at understanding low-level sensorimotor processes or restricted to model-based simulations of neural data will not be considered, unless they are embedded in a cognitive question related to one of the central research topics listed above. Investigators are highly encouraged to contact the program director before submitting a proposal regarding the appropriateness of their project for the Cognitive Neuroscience Program.

NSF Ecology and Evolution of Infectious Diseases (EEID)

[NSF 20-585](#)

Applications: November 18, 2020

Anticipated award amount: varies, see solicitation.

The multi-agency Ecology and Evolution of Infectious Diseases program supports research on the ecological, evolutionary, and social drivers that influence the transmission dynamics of infectious diseases. The central theme of submitted projects must be the quantitative or computational understanding of pathogen transmission dynamics. The intent is discovery of principles of infectious disease transmission and testing mathematical or computational models that elucidate infectious disease systems. Projects should be broad, interdisciplinary efforts that go beyond the scope of typical studies. They should focus on the determinants and interactions of transmission among any host species, including but not limited to humans, non-human animals, and/or plants. Research may be on zoonotic, environmentally-borne, vector-borne, or enteric pathogens of either terrestrial or aquatic systems and organisms, including diseases of animals and plants, at any scale from specific pathogens to inclusive environmental systems. Proposals for research on disease systems of public health concern to developing countries are strongly encouraged, as are disease systems of concern in agricultural systems. Investigators are encouraged to develop the appropriate multidisciplinary team, including for example, anthropologists, modelers, ecologists, bioinformaticians, genomics researchers, social scientists, economists, oceanographers, mathematical scientists, epidemiologists, evolutionary biologists, entomologists, parasitologists, microbiologists, bacteriologists, virologists, pathologists or veterinarians, with the goal of integrating knowledge across disciplines to enhance our ability to predict and control infectious diseases. The anticipated funding amount for this program is \$24M in FY2021.

NSF Dear Colleague Letter: Sentinel Cells for Surveillance and Response to Emergent Infectious Diseases (Sentinels)

[DCL Sentinels](#)

Applications accepted anytime. Budgets should be appropriate for the scope of proposed projects.

This DCL highlights the interest of existing programs in the Directorate for Biological Sciences (BIO) and the Directorate for Engineering (ENG) in interdisciplinary research for the development of novel biological platforms that are capable of sensing and responding to emerging infectious agents. The mechanism of sensing should be adaptable and or evolvable such that the sentinel cells, or other appropriate biotechnology solutions, are robust to a range

of emergent threats, and/or can easily be reprogrammed and deployed once a new threat is identified. The platform's response should be one or more of the following: alert the user, destroy the threat, protect the host, initiate an immune response or other strategies that would ensure mitigation of the threat. Sentinel cells and organisms that detect and respond to infectious agents with expanding footprints in a host population or expanding host ranges are of particular interest, as the early detection of these infectious agents might have value in preventing future pandemics. In addition, fundamental science and technology that would lead to the development of the envisioned sentinel cells and organisms are also of interest. Investigators are encouraged not to be limited in their approach, but to think broadly about innovations leveraging biology and engineering to advance adaptable detection of emerging biological threats.

- Proposals responsive to this DCL should be submitted to the program most closely related to the research:
 - [The Systems and Synthetic Biology Cluster](#) (SSB) in the Division of Molecular and Cellular Biosciences (MCB) ([NSF 18-585](#)).
 - The Biosensing Program (PD 20-7909) or the Cellular and Biochemical Engineering (CBE) Program (NSF PD 20-1491) that are part of the [Engineering Biology and Health Cluster](#) in the Division of Chemical, Bioengineering, Environmental and Transport Systems (CBET).

INDUSTRY FUNDING

2020 Samsung Global Research Outreach (GRO) Program

Proposals: August 24, 2020

Samsung is excited to announce the 2020 Global Research Outreach Program. For 2020, we feature 11 Topic areas with 19 Call for Proposals. New Topic areas include: Cryogenic Computing, Next Generation DRAM/NAND, Semiconductor Equipment, Privacy Preserving Computing, 6G, and Bulk Acoustic Wave to name a few. Please download the specific Call for Proposals for project problem statement and award details. All Proposals must be submitted on the Samsung website by Monday, August 24 at 5pm Pacific Daylight Time // Tuesday, August 25 at 9am Korea Time. Samsung will not accept submissions via email. We recommend submitting 48 hours prior to the deadline to avoid incompatible IT configuration settings when insufficient time would be left to resolve them. For more program information, including specific Call for Proposals, visit

https://www.sait.samsung.co.kr/saithome/about/collabo_overview.do.

Sony Research Award Program 2020

Proposals: September 15, 2020

Anticipated award amount: up to \$150,000 for 1 year (extensions possible)

As part of one of the world's most innovative and recognizable brands, Sony is committed to support university research and innovation in the U.S., Canada, and select European countries, while also fostering partnerships with university faculty and researchers. The Sony Research Award Program provides funding for cutting-edge academic research and helps build a collaborative relationship between faculty and Sony researchers. With awards up to \$150,000 USD per year for each accepted proposal, both the Faculty Innovation Award and Focused Research Award create new opportunities for university faculties to engage in pioneering

research that could drive new technologies, industries and the future. Full-time professors (including assistant- and associate-level) or researchers who are eligible to supervise Ph.D. students are eligible to apply. [Visit the program guidelines webpage for information on eligible research topics and complete guidelines.](#)

FOUNDATION FUNDING

2021-2022 Fulbright U.S. Scholar Competition

Applications: September 15, 2020

The Fulbright U.S. Scholar Program offers approximately 470 teaching, research or combination teaching/research awards in over 125 countries. Opportunities are available for college and university faculty and administrators as well as for professionals, artists, journalists, scientists, lawyers, independent scholars and many others. In addition to several new program models designed to meet the changing needs of U.S. academics and professionals, Fulbright offers flexible awards including multi-country opportunities. [Visit the Fulbright Scholar Program webpage for the Award Catalogue, guidelines and other information.](#)

AKC Canine Health Foundation 2020 Selected Canine Health Topics RFP

Applications: August 19, 2020

Anticipated award amount: varies

The mission of AKC Canine Health Foundation (CHF) is to advance the health of all dogs and their owners by funding sound scientific research and supporting the dissemination of health information to prevent, treat and cure canine disease. The Foundation is focused on funding research in several of its Research Program Areas with an emphasis on mechanisms of disease, pathology and molecular basis of disease, epidemiology and environmental factors, and clinical application of research findings. Proposals accepted through this RFP include the following CHF research program areas: Endocrinology, Gastrointestinal Disease, and Musculoskeletal Conditions and Disease. Proposals which fall under a research program area other than the aforementioned areas will NOT be accepted for scientific review at this time.

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