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**To:** [CU-RES-ADMIN-L](#)  
**Cc:** [REDACTED]  
**Subject:** Research Funding & Engagement Opportunities - June 18, 2020  
**Date:** Thursday, June 18, 2020 5:25:11 PM  
**Attachments:** [Intel-VMware RFP Future Heterogenous 3D FPGAs for Reconfigurable In-Network Computing.pdf](#)

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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](#).

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### **Federal Sponsors**

#### **NSF EHR Core Research (ECR) Program Outreach Webinar Series**

Every Thursday from June 11 to July 30, 2020 at 3-4 PM EDT

The Directorate for Education and Human Resources (EHR) Core Research (ECR) program officers will provide an overview of the funding opportunities available in the EHR Core Research Solicitation (NSF 19-508) and answer questions from participants. The webinar has been recorded and posted so those who cannot attend can listen to the webinar at any time. We also will send the webinar slides to those who attend each session. We suggest [reviewing solicitation NSF 19-508 before the webinar](#) to prepare your questions for program officers. Registration for these webinars is required. [Click here for more information and to register.](#)

There will also be two Special Edition Webinars:

- [NSF 19-035](#) DCL: Fundamental Research on Equity, Inclusion, and Ethics in Postsecondary

Academic Workplaces and the Academic Profession within the EHR Core Research Program – July 2 from 3-4 PM

- [NSF 19-044](#) DCL: Fundamental Discipline-Based Education Research (DBER) Focused on Undergraduate and Graduate STEM Education within the EHR Core Research (ECR) Program – July 9 from 3-4 PM

### **NSF Program on Fairness in Artificial Intelligence in Collaboration with Amazon (FAI)**

[NSF 20-566](#)

Full proposals: July 13, 2020

Anticipated award amount: \$750,000 to \$1,250,000 for up to 3 years

NSF and Amazon are partnering to jointly support computational research focused on fairness in AI, with the goal of contributing to trustworthy AI systems that are readily accepted and deployed to tackle grand challenges facing society. Specific topics of interest include, but are not limited to transparency, explainability, accountability, potential adverse biases and effects, mitigation strategies, algorithmic advances, fairness objectives, validation of fairness, and advances in broad accessibility and utility. Funded projects will enable broadened acceptance of AI systems, helping the U.S. further capitalize on the potential of AI technologies. Although Amazon provides partial funding for this program, it will not play a role in the selection of proposals for award.

- The lead PI on each proposal is expected to bring computer science expertise to the research.
- An individual may participate in at most one proposal as PI, co-PI, or Senior Personnel.

### **NIH High-Risk, High-Reward Research Program Webinars**

NIH Director's New Innovator Award – Thursday, June 25 at 3:00 PM

NIH Director's Pioneer Award – Friday, June 26 at 1:00 PM

NIH Director's Early Independence Award & Emergency Early Independence Award – Monday, June 29 at 1:00 PM

NIH Director's Transformative Research Award & Emergency Transformative Research – Monday, June 29 at 3:00 PM

The High-Risk, High-Reward Research program supports exceptionally creative scientists pursuing highly innovative research with the potential for broad impact in biomedical, behavioral, or social sciences within the NIH mission. The program's four constituent NIH Director's awards provide a diverse set of funding opportunities. The NIH Common Fund will hold pre-application interactive Q&A webinars for funding opportunities for the High-Risk, High-Reward Research program. NIH program and review staff will discuss the funding opportunities and answer questions from prospective applicants. Participation in the webinars is optional.

- All webinar times are EDT. [Pre-registration for the webinars is required, and participants should email their questions ahead of time.](#) Questions submitted during the webinar will be answered as time permits.
- The webinars will be recorded and posted on the website following the events.
- [Click here for more information, including program RFAs, webinar registration and deadlines for submitting questions.](#)

### **USDA NIFA Agricultural Genome to Phenome Initiative (AG2PI)**

## [AG2PI RFA](#)

**Applications:** July 15, 2020

**Anticipated award amount:** \$960,000 for 3 years

The National Institute of Food and Agriculture's Agricultural Genome to Phenome Initiative (AG2PI) focuses on collaborative science engagement and invites innovative research proposals that will lay the foundation for expanding knowledge concerning genomes and phenomes of crops and animals of importance to the agriculture sector of the United States. AG2PI supports multiple goals within the USDA Science Blueprint, USDA Innovation Agenda, the Genome to Phenome: USDA Blueprint for Animal Genomics Research, and relevant publicly initiated and led crop research initiatives to catalyze and coordinate research linking genomics and predictive phenomics to achieve advances that generate societal and environmental benefits.

## **NASA Science Mission Directorate Research Opportunities in Space and Earth Sciences-2020 (ROSES-2020)**

[NNH20ZDA001N](#)

The National Aeronautics and Space Administration (NASA) Science Mission Directorate (SMD) released its annual omnibus Research Announcement (NRA), Research Opportunities in Space and Earth Sciences (ROSES)–2020 on February 14, 2020. In this case "omnibus" means that this NRA has many individual program elements, each with its own due dates and topics. All together these cover the wide range of basic and applied supporting research and technology in space and Earth sciences supported by SMD. Awards will be made as grants, cooperative agreements, contracts, and inter- or intra-agency transfers, depending on the nature of the work proposed, the proposing organization, and/or program requirements. The typical period of performance for an award is three years, but some programs may allow up to five years and others specify shorter periods.

- Tables listing the program elements and due dates, the full text of the ROSES-2020 solicitation, and the "Summary of Solicitation" as a stand-alone document, may all be found NSPIRES at <http://solicitation.nasaprs.com/ROSES2020>.

## **Industry Sponsors**

### **Intel Labs/VMware Future Heterogeneous 3D FPGAs for Reconfigurable In-Network Computing**

**Proposals:** July 24, 2020

Intel's University Research & Collaboration Office (URC), in collaboration with VMware Academic Program (VMAP), invites proposals from Cornell University researchers to establish a new multi-university collaborative research center to develop innovations in future FPGA technologies addressing the need for extremely efficient processing of real-time data in the network generated by streaming ultra-low-latency workloads. Intel and VMware invite proposals on across-the-stack research targeting future FPGA systems in the areas of applications, programming abstractions and application-specific processor overlays, 3D hardware architectures and associated electronic design automation (EDA) tools, and dynamic runtimes. The overall goal of research is to enable a 100x performance and energy efficiency leap over existing FPGA solutions using the innovations described above while offering significantly better programmability. Additionally, the program seeks innovative applications that demonstrate the benefits of these technologies in new and compelling ways. [Further information, including program guidelines and contacts can be found in the attached RFP.](#)

## **Foundations Sponsors**

## **Russell Sage Foundation Decision Making and Human Behavior in Context**

Letters of Inquiry (required): August 5, 2020. Full proposals are by invitation only.

The Russell Sage Foundation (RSF) is launching a new special initiative on Decision Making and Human Behavior in Context that will support 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 our 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. All applicants (both PIs and Co-PIs) must have a doctorate.

To apply for the August 5, deadline, LOIs must satisfy at least one of these two criteria:

- the research is so time-sensitive that the project must start before July 1, 2021; or
- the research investigates the immediate and long-term social, political, economic, and psychological consequences of the Covid-19 pandemic in the United States.

[Visit the program webpage for further information.](#)

## **Foundation for Food and Agriculture (FFAR) Crops of the Future Consortium (COTF)**

[RFA](#)

Full applications: July 8, 2020

Anticipated award amount: \$250,000 to \$750,000 for 3 years

The Foundation for Food and Agriculture Research (FFAR) is seeking applications through our Crops of the Future Consortium (COTF). COTF is a public-private collaborative formed by FFAR to solve research gaps common across the Ag industry. We are seeking innovative and potentially revolutionary research focused on ensuring under-appreciated crops also benefit from recent advances and emerging technologies for genotype-independent regeneration of fertile plants to foster application of rapid breeding methods such as in vitro double haploid production and genome editing. For 2020, FFAR anticipates funding up to two meritorious and transformative applications. For more information, [view the RFA](#).

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