

The logo for the University of Maryland (UMD) is displayed in yellow text on a red rectangular background.

# FUNDING ALERT

## Notes

1. Weekly opt-in funding alert provided by the UMD-College Park Division of Research and [SSTI](#). Please feel free to forward this alert to colleagues.
2. If you have been forwarded this email and would like to receive this alert on a weekly basis, please fill out the following form: <http://go.umd.edu/fundingalert>.

## SSTI (June 13)

### New Federal R&D Funding Opportunities

#### Department of Defense

##### Breast Cancer Research

The Department of the Army has released five solicitations for proposals related to advancing breast cancer research. They are:

- **Innovator Award** (W81XWH-22-BCRP-INNOV-2) A single award of \$10.8 million is anticipated. Proposals are due Nov 2, 2022. Use link with OppID=341027
- **Breakthrough Award** There are four funding levels.
  - Levels 1 and 2 (W81XWH-22-BCRP-BTA12-2) Up to 15 awards are anticipated for Level 1 and 2 awards from a pool of \$22.6 million. Proposals are due Oct 6, 2022. Use link with OppID=341028
  - **Funding Level 3** (W81XWH-22-BCRP-BTA3-2) A single award of \$7.2 million is anticipated. Proposals are due Nov 2, 2022. Use link with OppID=341029
  - **Funding Level 4** (W81XWH-22-BCRP-BTA4-2) A single award of \$15.5 million is anticipated. Proposals are due Nov 2, 2022. Use link with OppID=341011
- **Era of Hope Scholar Award** (W81XWH-22-BCRP-EOHS-2) A single award of up to \$4.7 million is anticipated. Proposals are due Oct 6, 2022. Use link with OppID=341010

##### Eligibility:

Unrestricted domestically

##### AwardsID(s):

W81XWH-22-BCRP-INNOV-2, W81XWH-22-BCRP-BTA12-2, W81XWH-22-BCRP-BTA3-2 , W81XWH-22-BCRP-BTA4-2 , W81XWH-22-BCRP-EOHS-2

##### Links:

<https://www.grants.gov/web/grants/view->

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341027>, <https://www.grants.gov/web/grants/view-opportunity.html?oppld=341028>, <https://www.grants.gov/web/grants/view-opportunity.html?oppld=341029>, <https://www.grants.gov/web/grants/view-opportunity.html?oppld=341011>, <https://www.grants.gov/web/grants/view-opportunity.html?oppld=341010>

## Duchenne Muscular Dystrophy Research

The Department of the Army invites proposals in response to two opportunities related to advancing Duchenne Muscular Dystrophy (DMD) research:

- **Idea Development Award** (W81XWH-22-DMDRP-IDA) Eight awards are anticipated from a pool of \$4.48 million. Use link with OppID=340949
- **Translational Research Award** (W81XWH-22-DMDRP-TRA) Two awards are anticipated from a pool of \$4.16 million. Use link with OppID=340953

### Eligibility:

Unrestricted

### Deadline:

11/15/2022

### AwardsID(s):

W81XWH-22-DMDRP-TRA , W81XWH-22-DMDRP-IDA

### Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340953>, <https://www.grants.gov/web/grants/view-opportunity.html?oppld=340949>

## Information Operations, Cyberspace Operations and Information Technology System Research, Cryogenics & Quantum

The Naval Information Warfare Center Pacific invites white paper proposals in response to its Broad Agency Announcement relating to the advancement of Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) capabilities, enabling technologies for Information Operations and Cyberspace Operations, and Information Technology systems. Dozens of technical topics of interest are outlined in the 39-page announcement. White papers may be submitted at any time. If evaluated favorably a proposal may be requested by NIWCP.

### Awards:

Multiple awards are anticipated.

### Eligibility:

Unrestricted

### Deadline:

06/07/2023

### AwardsID(s):

N66001-22-S-4703

### Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=340981>

## Department of Energy

### Clean Energy Cybersecurity Accelerator

The DOE Office of Energy Efficiency & Renewable Energy invites applications from cybersecurity solution providers that offer strong authentication for distributed energy resources to protect the modern electrical grid and expedite bringing tested solutions to market. Designed to bolster innovative cybersecurity

technologies, the Accelerator identifies the most urgent security gaps and supports innovative solution providers who can develop early-stage answers. Building security into new technologies at the earliest stage—when security is most effective and most efficient—is too often considered a barrier that impedes the time to market. For the first cohort cycle, CECA is seeking applicants that offer strong authentication solutions for distributed energy resources. Solution providers will take part in a three-to-12-month incubation period, sharing ideas and threat intelligence before validating solutions in the lab.

**Awards:**

Up to five participants may be selected

**Deadline:**

07/06/2022

**Links:**

<https://www.nrel.gov/innovate/cybersecurity-accelerator.html>

## Department of Health and Human Services

### Data Management Coordinating Center for Diagnostic Centers of Excellence

Several components of NIH collectively invite application to create a single Data Management and Coordinating Center (DMCC) to provide infrastructure, data management, and clinical research support for a new network of clinical sites that provide diagnostic services for undiagnosed diseases. The new Network is intended to sustain some of the key research activities currently performed by the Undiagnosed Diseases Network (UDN), an NIH Common Fund program that was established in 2013 and will sunset in 2023. The DMCC will coordinate clinical sites that apply to join the new Network beginning in FY2023 as Diagnostic Centers of Excellence.

**Awards:**

one award providing \$3 million in direct costs per year over five years.

**Eligibility:**

Unrestricted domestically.

**Deadline:**

07/10/2022

**AwardsID(s):**

RFA-NS-22-051

**Links:**

<https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-22-051.html>

### Measures and Methods for Research on Family Caregivers for People Living with Alzheimer's Disease and Related Dementias

The National Institute on Aging invites responses for two related solicitations for the development of methods and measures for capturing expanded definitions of “family” and related concepts relevant to informal caregiving for people living with Alzheimer's disease (AD) and Alzheimer's disease-related dementias (ADRD), and for the implementation of these measures in new and existing studies. Solicitation RFA-AG-23-022 invites R01 research projects while proposals for high-risk/high-payoff projects that lack preliminary data may be more appropriate for the companion RFA-AG-23-023, which invites Exploratory/Developmental Research Grant (R21) applications.

**Awards:**

Up to 6 R01 awards may be made from an anticipated pool of \$3.96 million; six R21 awards may be made from a pool of \$1.3615 million.

**Eligibility:**

Unrestricted, domestically and internationally

**Deadline:**

10/20/2022

**AwardsID(s):**

RFA-AG-23-022 , RFA-AG-23-023

**Links:**

<https://grants.nih.gov/grants/guide/rfa-files/RFA-AG-23-022.html>, <https://grants.nih.gov/grants/guide/rfa-files/RFA-AG-23-023.html>

**Multidisciplinary Urologic Research - Career Development**

The National Institute of Diabetes and Digestive and Kidney Diseases invites applications to support institutional career development programs in urological research that will assist individuals with doctorate degrees (either clinical or professional) with an interest in benign urological disease or urological research to develop the skills necessary to initiate and sustain an independent research career in urological research. The opportunity allows appointment of Scholars proposing to serve as the lead investigator of an independent clinical trial; or proposing a separate ancillary clinical trial; or proposing to gain research experience in a clinical trial led by another investigator, as part of their research and career development.

**Awards:**

Four awards are anticipated from a total pool of \$2 million

**Eligibility:**

Unrestricted domestically

**Deadline:**

10/27/2022

**AwardsID(s):**

RFA-DK-22-006

**Links:**

<https://grants.nih.gov/grants/guide/rfa-files/RFA-DK-22-006.html>

**Research Coordinating Center to Support Climate Change and Health Community of Practice**

The Climate Change and Health Initiative (CCH) is a NIH-wide research effort established to address the effects/implications of climate change on the health of populations and create the evidence base to inform the response needed to improve health outcomes. To support this initiative NIH seeks applications to create a Research Coordinating Center to support the development of an NIH CCH Community of Practice (COP) by managing and supporting current CCH research and capacity building efforts and supporting the expansion of the COP in the long term. Climate change greatly elevates threats to human health across a wide range of illnesses and injuries. Adverse health impacts include asthma, respiratory airway and pulmonary diseases, cardiovascular disease and stroke, heat-related illness and deaths, allergic hypersensitivities and infectious diseases (notably, water-borne, food-borne, vector-borne, and zoonotic diseases), reproductive, birth outcome, and developmental effects, mental health disorders, and extreme weather-related morbidity and mortality. Strong evidence indicates that climate change also disproportionately adversely affects communities that experience social and environmental vulnerabilities.

**Awards:**

A single three-year award of \$2.25 million in total annual costs.

**Eligibility:**

Unrestricted domestically

**Deadline:**

08/25/2022

**AwardsID(s):**

RFA-ES-22-003

**Links:**

<https://grants.nih.gov/grants/guide/rfa-files/RFA-ES-22-003.html>

## **Research Opportunities for New and "At-Risk" Investigators to Promote Workforce Diversity**

Three NIH organizations, the National Institute of Neurological Disorders and Stroke, the National Institute on Drug Abuse, and the National Institute of Mental Health, invite applications from New Investigators and At-Risk Investigators from diverse backgrounds -- including those from groups underrepresented in the health-related sciences -- that propose independent research projects that are within the scientific mission areas of the participating NIH Institutes. Of particular interest is receipt of proposals from:

1. Individuals from racial and ethnic groups that have been shown by the National Science Foundation to be underrepresented in health-related sciences on a national basis; and
2. Individuals with disabilities, who are defined as those with a physical or mental impairment that substantially limits one or more major life activities, as described in the Americans with Disabilities Act of 1990, as amended.

NIH expects efforts to diversify the workforce to lead to the recruitment of the most talented researchers from all groups; to improve the quality of the educational and training environment; to balance and broaden the perspective in setting research priorities; to improve the ability to recruit subjects from minority and other health disparity populations into clinical research protocols; and to improve the Nation's capacity to address and eliminate health disparities.

**Awards:**

Up to \$20 million to support as many as 55 awards across the 3 participating institutes

**Eligibility:**

Unrestricted domestically

**Deadline:**

09/08/2022

**AwardsID(s):**

PAR-22-181

**Links:**

<https://grants.nih.gov/grants/guide/pa-files/PAR-22-181.html>

## **Stakeholder Engagement Innovation Center for Advancing Health Equity in Type 2 Diabetes Research**

The National Institute of Diabetes and Digestive and Kidney Diseases invites applications to establish a novel national Stakeholder Engagement Innovation Center for advancing equity in type 2 diabetes research. The center will accelerate equitable engagement of individuals from and communities of diverse backgrounds and sectors in developing the research priorities and activities that involve them, particularly underserved communities, and those with the highest proportion of diabetes-related morbidity and mortality. It also will provide highly specialized research resources to support field investigators by fully embedding communities, patients, and other stakeholders into the full spectrum of research activities through expert consultations and education in principles and methods of community-engaged research.

**Awards:**

A single five-year award supporting \$1.9 million in annual direct costs.

**Eligibility:**

Unrestricted domestically.

**Deadline:**

10/26/2022

**AwardsID(s):**

RFA-DK-22-001

**Links:**

<https://grants.nih.gov/grants/guide/rfa-files/RFA-DK-22-001.html>

## National Science Foundation

### Mid-Career Advancement Grants

Seeks proposals to offer an opportunity for scientists and engineers at the mid-career stage to substantively enhance and advance their research program and career trajectory. Mid-career scientists are at a critical career transition stage where they need to advance their research programs to ensure long-term productivity and creativity but are often constrained by service, teaching, or other activities that limit the amount of time devoted to research. The MCA program provides protected time, resources, and the means to gain new skills through synergistic and mutually beneficial partnerships, typically at an institution other than the candidate's home institution. Partners from outside the Principal Investigator's (PI) own sub-discipline or discipline are encouraged, but not required, to enhance interdisciplinary networking and convergence across science and engineering fields. Research projects that envision new insights on existing problems or identify new problems made accessible with cutting-edge methodology or expertise from other fields are encouraged.

**Awards:**

45 awards from a pool of \$18 million

**Eligibility:**

U.S. institutions of higher education and nonprofit organizations

**Deadline:**

03/01/2023

**AwardsID(s):**

NSF 22-603

**Links:**

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341086>

### Research Experiences for Undergraduates

NSF invites proposals to support active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program. This solicitation features two mechanisms for support of student research:

1. *REU Sites* are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department or may offer interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome.
2. *REU Supplements* may be included as a component of proposals for new or renewal NSF grants or cooperative agreements or may be requested for ongoing NSF-funded research projects.

**Awards:**

Up to 1,850 awards from a total pool of \$84.14 million.

**Eligibility:**

Undergraduate student participants must be U.S. citizens, U.S. nationals, or permanent residents of the U.S.

**Deadline:**

09/06/2022

**AwardsID(s):**

NSF 22-601

**Links:**

[https://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf22601](https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf22601)

## **Robert Noyce Teacher Scholarships**

The Robert Noyce Teacher Scholarship (Noyce) program encourages proposal submissions for projects seeking to provide research experiences for pre-service teachers enrolled in an Noyce-eligible STEM major or degree. Projects are intended to provide STEM research experiences that can enhance student preparation for STEM teaching and their retention as teachers in STEM fields. Projects must include STEM research experiences in formal or informal U.S. settings. Projects are expected to engage pre-service teachers in authentic research experiences, with mentoring from active STEM researchers conducting research in STEM settings (e.g., federal research site, national research center or laboratory, nonprofit organization, industry, or institution of higher education). Proposals are encouraged to describe: the pre-service student teacher population that will participate; recruitment and selection, for the preservice teachers; planned research and mentoring activities; planned professional development for both teaching and research; and the desired project outcomes. After consultation with and consent of a Noyce Program Director, proposals may be submitted at any time.

**Awards:**

55-70 awards, 25-30 of which will be Track 1 grants

**Eligibility:**

Accredited U.S. Institutions of Higher Education

**Deadline:**

08/30/2022

**AwardsID(s):**

NSF 21-578

**Links:**

[https://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf21578](https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf21578)

## **New SBIR/STTR Funding Opportunities**

### **Department of Health and Human Services**

#### **Tools to Expedite Creation and Regulatory Approvals of New Therapies for Substance Use Disorders**

The National Institute on Drug Abuse invites SBIR and STTR proposals from small business concerns through two related announcements to research projects, directed towards commercialization, for the development of new drug development tools (DDT) and medical device development tools (MDDT) in the field of substance use disorder (SUD) research. DDTs and MDDTs developed with funds from this FOA are expected to support investigators and medical product developers by facilitating and expediting regulatory approval of new medical products developed for diagnosis, monitoring, and/or treatment of patients with SUD. RFA-DA-23-019 is for STTR applications. RFA-DA-23-020 is for SBIR applications.

**Awards:**

\$3 million may support 3-5 awards.

**Eligibility:**

U.S. small business concerns

**Deadline:**

11/14/2022

**AwardsID(s):**

RFA-DA-23-019, RFA-DA-23-020

**Links:**

<https://grants.nih.gov/grants/guide/rfa-files/RFA-DA-23-019.html>, <https://grants.nih.gov/grants/guide/rfa-files/RFA-DA-23-020.html>

## New Foundation R&D Funding Opportunities

### American Gastroenterological Association Foundation

#### Digestive Cancer Research

The Foundations seeks applications for its AGA-Caroline Craig Augustyn & Damian Augustyn Award in Digestive Cancer. The award will provide a single grant to an early-career investigator who currently holds a federal or non-federal career development award devoted to conducting research relevant to the pathogenesis, prevention, diagnosis, or treatment of digestive cancer. Applicants performing any type of research (basic, translational, clinical) relevant to digestive disorders are eligible to apply.

**Awards:**

One award of \$40,000

**Eligibility:**

Individuals with a MD, PhD and/or equivalent degree holding full-time faculty or equivalent position at a North American institution.

**Deadline:**

07/19/2022

**Links:**

<https://gastro.org/research-and-awards/apply-for-awards/award/aga-caroline-craig-augustyn-damian-augustyn-award-in-digestive-cancer/>

### American Society for Parenteral and Enteral Nutrition

#### Clinical Parenteral and Enteral Nutrition Research

The research foundation within ASPEN invites proposals support of research projects by early-career investigators with the potential to advance the science and practice of clinical nutrition and metabolism. Project goals should align with the priorities outlined in the Society's ASPEN Research Agenda.

**Awards:**

Multiple \$25,000 grants

**Eligibility:**

applicants must be within ten years of completing a terminal research degree, medical residency, or end of post-graduate clinical training (or the equivalent); be at or below the rank of assistant professor

**Deadline:**

08/01/2022

**Links:**

[https://www.nutritioncare.org/Research/ARRF/ASPEN\\_Rhoads\\_Research\\_Foundation\\_Annual\\_Grants/](https://www.nutritioncare.org/Research/ARRF/ASPEN_Rhoads_Research_Foundation_Annual_Grants/)

### Glaucoma Research Foundation

#### Glaucoma Research

The foundation seeks proposals for its Shaffer Grants for Innovative Glaucoma Research. One-year grants will be awarded to support novel and promising research dedicated to high-impact clinical, epidemiological, and laboratory research on glaucoma, including protecting and restoring the optic nerve;



accurately detecting glaucoma and monitoring its progress; providing better understanding and treatment for congenital/juvenile glaucoma; finding the genes responsible for glaucoma; understanding the intraocular pressure system and developing better treatments; and determining the risk factors for glaucoma damage using systematic outcomes data. Preliminary proposals are required.

**Awards:**

Multiple \$50,000 grants

**Eligibility:**

must hold at least a graduate degree

**Deadline:**

07/15/2022

**Links:**

<https://glaucoma.org/research/apply-for-a-grant/>

## National Multiple Sclerosis Society

### Multiple Sclerosis Research

The Society invites applications for investigator-initiated proposals to support research focused on addressing research questions highlighted in the Pathways to MS Cures Roadmap. The roadmap includes three pathways stopping MS disease activity, restoring function by reversing damage and symptoms and ending MS by preventing new cases. Applicants must clearly state the relevance of their proposals to at least one of the research questions outlined in the Roadmap. The society supports all types of research, including laboratory models, human studies, population-based approaches, and data-intensive investigations that leverage researcher and patient-reported outcomes. Pre-applications are required.

**Awards:**

Multiple 3-year awards up to \$200,000 in direct costs

**Eligibility:**

MD, PhD or equivalent and be considered eligible by their institution to apply for grant support.

**Deadline:**

07/13/2022

**Links:**

<https://www.nationalmssociety.org/For-Professionals/Researchers/Society-Funding/Research-Grants>

## New Challenges and Prize Competitions

### Department of Commerce

#### Innovative Incident Command Dashboards for Public Safety

The National Institute of Standards and Technology (NIST) is launching a new prize competition to advance incident command dashboard technologies that would allow for real-time tracking of assets, personnel and objects of interest during emergency scenarios. Through the Command Dashboard Integrating Next-Gen, or CommandING, Tech Challenge, NIST will bring together first responders, video analytics and indoor localization professionals, public safety experts and participants to advance and enhance the role of incident command dashboards for public safety. There are four phases to the challenge, the first of which requests concept papers. A webinar regarding this challenge will be held June 16 at 11:00 (Mountain Time).

**Awards:**

Up to \$1 million in prizes through four stages of the challenge

**Eligibility:**

Unrestricted

**Deadline:**

07/31/2022

**Links:**

<https://www.nist.gov/ctl/pscr/open-innovation-prize-challenges/current-and-upcoming-prize-challenges/2022-commanding-tech>, <https://www.challenge.gov/?challenge=commandingtech>

## Department of Energy

### Hydrogen Shot Incubator Prize

DOE announced the opening of the Hydrogen Shot Incubator Prize to foster innovative concepts that produce clean, affordable hydrogens. The prize will support the DOE Hydrogen Program's efforts to identify, develop, and test disruptive technologies that reduce the cost of clean hydrogen production and meet the DOE Hydrogen Shot goal of \$1 per kilogram of clean hydrogen. This is a multi-staged program, with phase I concepts due first. An informational webinar will be held July 7, 2022.

**Awards:**

\$2.6 million prize pool to support multiple awards

**Deadline:**

08/17/2022

**Links:**

<https://www.energy.gov/eere/articles/us-department-energy-announces-hydrogen-shot-incubator-prize>, <https://www.herox.com/HydrogenShotPrize/resources>

## Department of Health and Human Services

### Discovering New Ideas to Advance Substance Abuse and Mental Health Recovery

The Substance Abuse and Mental Health Administration has issued the "Recovery Innovation Challenge" is to identify innovations developed by peer-run or community-based organizations, or entities that partner with them (e.g., local or state governments, health systems, hospitals, or health plans), that advance recovery in the decade since SAMHSA established its working definition of recovery. This single-phase challenge will allow participants to share details about innovative practices and models being used to advance recovery on the ground and to demonstrate how these innovations expand upon SAMHSA's definition or overcome challenges in incorporating recovery into their services or systems. Prize funding will be awarded to the most meritorious submissions. A pre-proposal webinar will be held June 15 at 1:00 pm (EDT).

**Awards:**

\$400,000 in prize funding may distributed across 10 awards

**Deadline:**

07/15/2022

**Links:**

<https://www.challenge.gov/?challenge=recovery>

### Novel Visions of Data Sharing and Reuse

The Federation of American Societies for Experimental Biology and the National Institutes of Health are championing a bold vision of data sharing and reuse. The **DataWorks! Prize** fuels this vision with an annual challenge that showcases the benefits of research data management while recognizing and rewarding teams whose research demonstrates the power of data sharing or reuse practices to advance scientific discovery and human health. We are seeking new and innovative approaches to data sharing and reuse in the fields of biological and biomedical research. To incentivize effective practices and increase community

engagement around data sharing and reuse, the 2022 DataWorks! Prize will distribute up to 12 monetary team awards. Submissions will undergo a two-stage review process, with final awards selected by a judging panel of NIH officials. Registration is required June 28, three weeks prior to the proposal submission deadline.

**Awards:**

A prize purse of \$500,000 to support multiple awards

**Deadline:**

07/19/2022

**Links:**

<https://www.herox.com/dataworks>

## **Pipelines to Identify Indels in Oncopanel Sequencing Datasets**

Genetic variation involving indels (insertions and deletions) in the cancer genome have been reported. Indels in coding region disrupt protein coding and often lead to changes in protein function. Given that indels have not been studied as much as single nucleotide variants, it is important that the tools for indel-calling be rigorously evaluated and optimized. To this end, precisionFDA and the FDA's National Center for Toxicological Research (NCTR) asks the participants to develop, validate, and benchmark indel calling pipelines to identify indels in oncopanel sequencing datasets. Potential respondents have access to two sets of oncopanel sequencing data and are asked to develop indel calling pipelines which are optimized for either or both datasets (Oncopanel A and Oncopanel B). Each set is generated by a unique oncopanel different from the other set. In the second phase, participants will have the option to validate their pipelines with the frozen-in parameters on a third oncopanel sequencing dataset (Oncopanel X) in addition to the first two datasets.

**Awards:**

Four prizes will be awarded at the end of the challenge

**Eligibility:**

Unrestricted

**Deadline:**

07/08/2022

**Links:**

<https://precision.fda.gov/challenges/21>

## **Department of Veteran Affairs**

### **Mission Daybreak (suicide prevention)**

Through Mission Daybreak, the Department of Veterans Affairs calls on innovators to develop suicide prevention solutions that meet the diverse needs of veterans. Mission Daybreak is a two-phase grand challenge. Phase 1 is open to all eligible solvers — including Veterans, researchers, technologists, advocates, clinicians, health innovators, and service members — to submit detailed concepts. A pre-proposal webinar will be held June 14. In 2019, more than 45,000 American adults died from suicide — including 6,261 U.S. Veterans. While suicide can affect all Americans, it has a disproportionate impact on the Veteran community. Phase I concept proposals may be no more than 10 pages.

**Awards:**

\$20 million in prizes across both stage

**Eligibility:**

Unrestricted

**Deadline:**

07/08/2022

**Links:**

<https://www.missiondaybreak.net/>

## Environmental Projection Agency

### Let's Talk About Heat Challenge

EPA and partners have launched the Let's Talk About Heat Challenge, a national competition to identify innovative and effective communication strategies that inform people of the risks of extreme heat and offer ways to keep safe during the hottest days. Winning solutions will include identification of and engagement with people known to be most susceptible to extreme heat risks, including but not limited to underserved and overburdened communities. Winners will share suitable messages, strategies used to reach target audiences with those messages, and proposed measures of effectiveness. Communication methods might include social media, billboards, graphics, public service announcements and other forms of communication. The challenge sponsors hope to identify ways to monitor the effectiveness of these heat risk campaigns and messages and share the best practices with communities across the nation. An informational webinar will be held June 22 at 2:00pm EDT.

**Awards:**

Up to 10 prizes from a total pool of \$120,000

**Eligibility:**

Unrestricted

**Deadline:**

07/22/2022

**Links:**

<https://www.challenge.gov/?challenge=lets-talk-about-heat>

## Foundation for Food & Agriculture Research

### Harvest for Health Breakthrough Crop Challenge

Harvest for Health (H4H) aims to accelerate the development of underutilized crops and increase the diversity of nutritious foods in the marketplace. According to the Foundation, there have been many public investments in developing underutilized crops to increase farmer income, provide more nutritious diets, increase resiliency within the food system, and increase biodiversity; however, meeting these goals will require substantially more investments from the private sector. The H4H initiative consists of two phases (only the first is open presently):

- Phase I — Breakthrough Crop Challenge: This will focus on building a predictive model to identify underutilized crops with properties of interest to food and ingredient companies.
- Phase II — Commercial Development of Select Crops: This will focus on using the developed predictive model to prioritize underutilized crops for commercial development based on their potential for increased public and private investments. A single \$1 million grant is anticipated.

**Awards:**

Five seed grants of \$75,000 each

**Eligibility:**

Unrestricted internationally

**Deadline:**

07/20/2022

**Links:**

<https://philanthropynewsdigest.org/rfps/rfp13875-foundation-for-food-agriculture-research-invites-concept-notes-for-harvest-for-health-breakthrough-crop-challenge>

## National Aeronautics and Space Administration

## NASA MarsXR Challenge

NASA and its partners are seeking developers to create a new Virtual Reality (XR) research, development, and testing environment to help prepare for the experiences and situations that will be encountered on Mars. This challenge is seeking developers to create new assets and scenarios for the new Mars XR Operations Support System (XOSS) environment, using Epic Games' Unreal Engine 5. Specifically sought assets and scenarios focused on particular extravehicular activities scenarios that will be used to test procedures and plan for conditions while on Mars.

**Awards:**

A prize purse is \$70,000, shared between 20 individual prizes.

**Eligibility:**

Unrestricted, Epic Games developers

**Deadline:**

07/26/2022

**Links:**

<https://www.herox.com/MarsXR>

## New Wind Tunnel Landscape Designs

NASA is looking for ideas that can be incorporated into the designs of their next generation wind tunnel facilities. We are challenging the GrabCAD Community to design innovative wind tunnel test section(s) that can increase the effectiveness of an advanced transonic (Mach 0.05 to 1.6) wind tunnel facility. This contest is in support of a NASA concept study called the "New Wind Tunnel Landscape." The goal of the study is to develop several options to support the future wind tunnel testing required in the next 20-50 years. The test section design is one aspect of what might enhance the effectiveness of future wind tunnels. In addition to swapping out models, researchers may want to configure the test section itself for different test objectives (e.g. sound abatement for acoustic measurement accuracy, optical windows for laser metrology on structural dynamics).

**Awards:**

\$7,000 in prize money

**Eligibility:**

unrestricted, GrabCAD users

**Deadline:**

07/18/2022

**Links:**

<https://grabcad.com/challenges/nasa-challenge-new-transonic-wind-tunnel-test-section>

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