

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 (July 26)

### New Federal R&D Funding Opportunities

#### Department of Commerce

##### Bluefin Tuna Research

The National Marine Fisheries Service invites research proposals to provide a basis for advancing science-based fisheries management for Atlantic bluefin tuna. Such advancement will depend upon improvements in understanding of the fisheries and biology of bluefin tuna, especially regarding the effects of mixing and movement between the eastern and western Atlantic populations. Contracting Parties to the International Convention for the Conservation of Atlantic Tunas (ICCAT), of which the US is one, and other partners have embarked upon a multi-year research program on bluefin tuna as a step toward improving ICCAT's science-based management of Bluefin fisheries. Seven research priorities are described in the solicitation.

##### Awards:

Five awards from a total pool of \$600,000.

##### Eligibility:

Unrestricted domestically, with the exception of federal agencies and Tribal governments.

##### Deadline:

10/28/2022

##### AwardsID(s):

NOAA-NMFS-SE-2023-2007495

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=342636>

### **Fisheries Cooperative Research Program**

The National Marine Fisheries Service invites applications for its Cooperative Research Program, which supports projects seeking to improve and strengthen the relationship between fisheries researchers from NMFS, state fishery agencies, and universities and the U.S. fishing industry (recreational and commercial) in the Gulf of Mexico (FL, AL, MS, LA, TX), South Atlantic (FL, NC, SC, GA) and Caribbean (USVI and Puerto Rico). The program bolsters partnerships by providing a way for involving commercial and recreational fishermen in the collection of fundamental fisheries information in support of management and regulatory options. Proposals must address at least one of four priority research areas and designated species described in the solicitation.

Awards:

Four one-year awards from a pool of \$500,000.

Eligibility:

Unrestricted domestically, with the exception of federal agencies.

Deadline:

09/30/2022

AwardsID(s):

NOAA-NMFS-SE-2023-200749

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=342629>

## **Department of Energy**

### **Vehicle Technologies**

The National Energy Technology Laboratory invites research projects to address priorities in the following areas: the cost-effective deployment of EV charging for those without easy home charging; innovative solutions to improve mobility options for underserved communities; community engagement to accelerate clean transportation options in underserved communities; batteries and electrification; materials technologies; energy-efficient commercial off-road vehicle technologies; medium/heavy duty vehicle corridor charging and advanced engine and fuel technologies to improve fuel economy and reduce GHG emissions. Mandatory concept papers are due August 25, 2022. Award size, cost share requirements, and federal funding availability vary across 13 specific topic areas described in detail in the solicitation. The announcement also specifically excludes several topics as well.

Awards:

\$95.7 million is available to support up to 82 awards.

Eligibility:

Unrestricted, with exception of 501(c)(4) organizations.

Deadline:

08/25/2022

AwardsID(s):

DE-FOA-0002611

Links:

<https://eere-exchange.energy.gov/Default.aspx#Foald8cf6d82c-c517-4db4-9bd7-778ba7232f8f>

## Department of Health and Human Services

### **BRAIN Initiative: Brain Behavior Quantification and Synchronization**

Multiple NIH Institutes invite applications for the development and validation of next-generation tools, methods, and analytic approaches to precisely quantify behaviors and combine them with simultaneous recordings of brain activity in humans. This opportunity is intended to support biphasic applications for novel tools development (i.e., hardware/software) in the initial (R61) phase, followed by the integration/synchronization of these novel tools with established methods for recording human brain activity in the development (R33) phase.

Awards:

\$10 million to fund up to 10 awards

Eligibility:

Unrestricted

Deadline:

02/17/2023

AwardsID(s):

RFA-MH-22-240

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-22-240.html>

### **Expanding Collaborative Implementation Science to Address Social and Structural Determinants of Health and Improve HIV Outcomes**

The National Institute of Mental Health, in partnership with other NIH Institutes invites applications aiming to support implementation science research to strengthen the evidence for effective interventions and implementation strategies that target Social and Structural Determinants of Health (SSDoH) and ultimately improve HIV outcomes and reduce inequities. Two related funding opportunities are available:

- **Clinical Trial Required:** This initiative will support applications that propose hybrid implementation-effectiveness studies that simultaneously test the effectiveness of interventions addressing SSDoH and implementation strategies

to facilitate their uptake or adaptation. The interventions must directly intervene on one or more SSDoH, which may include, but are not limited to, race inequality, poverty, stigma and discrimination, violence, unmet legal needs, unstable housing, lack of transportation, food insecurity, medical mistrust, and/or inadequate access to health services. Four awards are anticipated from a pool of \$2 million. Interested parties should see the RFA-MH-22-190 link.

- Clinical Trial Not Allowed: Opportunity RFA-MH-22-191 will support the activities of a Data Coordination and Consultative Hub to provide scientific leadership across the project teams funded by RFA-MH-22-190 above. Eleven tasks for the hub are identified in the announcement, categorized by a) organization and management; b) data coordination and harmonization; and c) training and capacity building. Two awards are anticipated from a pool of \$1 million.

Eligibility:

Unrestricted Domestically

Deadline:

11/18/2022

AwardsID(s):

RFA-MH-22-190, RFA-MH-22-191

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-22-190.html>, <https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-22-191.html>

### **Functional Target Validation for Alzheimer's Disease-Related Dementias**

The National Institute of Neurological Disorders and Stroke and the National Institute on Aging invites applications that propose the comprehensive functional validation of newly identified therapeutic target candidates for Alzheimer's Disease-Related Dementias (ADRD). This opportunity seeks to promote critical target validation approaches to help de-risk subsequent translational research and accelerate the advancement of novel therapies for ADRD. Target(s) or molecular pathway(s) to be considered for validation must have been already identified using tissue expression or genetic data generated in human samples.

Awards:

\$2.7 million to fund up to 3 awards.

Eligibility:

Unrestricted Domestically

Deadline:

11/08/2022

AwardsID(s):

RFA-NS-22-055

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-22-055.html>

### **HEAL Initiative: Coordinated Pain Care in Health Care Systems Research Program**

Several NIH Institutes invite applications for a Coordinating Center to provide leadership for the HEAL Coordinated Approaches to Pain Care in Health Care Systems Program. The Center will:

1. provide leadership for the program and further develop, adapt, and adopt technical and policy guidelines and best practices for the efficient conduct of research on coordinated models of pain care;
2. work collaboratively with each team supported through the HEAL Coordinated Approaches to Pain Care Program by providing technical, design, and coordination support for the trials; and
3. identify and disseminate the best strategies for engaging health care systems as research partners to implement coordinated pain care programs.

The Coordinating Center also will serve as the central administrative resource for organizing the activities of the Coordinated Approaches to Pain Care Program.

Awards:

\$3.75 million across 5 years to fund one award

Eligibility:

Unrestricted Domestically

Deadline:

11/04/2022

AwardsID(s):

RFA-NS-22-065

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-22-065.html>

### **NIH HEAL Initiative: Coordinated Approaches to Pain Care in Health Care Systems**

Multiple NIH Institutes invite applications to provide additional evidence to enhance the ability of health care delivery organizations to implement coordinated and personalized care to manage complex pain conditions. The National Institute of Neurological Disorders and Stroke solicits research applications that propose implementation science methodology to embed existing evidence-based coordinated pain care models into a variety of public and private health care systems (HCS) where this type of care does not exist. Applications that combine comparative effectiveness studies of innovative coordinated care models with strong implementation science methodology to embed effective approaches into HCSs also are encouraged.

Awards:

\$12.05 million across 5 years to fund up to 6 awards

Eligibility:

Unrestricted Domestically

Deadline:

11/04/2022

AwardsID(s):

RFA-NS-22-053

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-22-053.html>

### **Prevention and Treatment through a Comprehensive Care Continuum for HIV-affected Adolescents in Resource Constrained Settings Implementation Science Network**

Multiple NIH Institutes invite applications to participate in a research program cooperative agreement to support the Prevention and Treatment through a Comprehensive Care Continuum for HIV-affected Adolescents in Resource Constrained Settings Implementation Science Network (PATC3H-IN). Two funding opportunities are available related to network:

- Prevention and Treatment: PATC3H-IN is a cooperative, multi-component project grant that is newly composed of Clinical Research Centers (CRC) and a Coordination, Translation and Advanced Methods and Analytics Center (CTAMAC) (see companion RFA-HD-23-014), which will work collaboratively to achieve the mission of PATC3H-IN. Up to five awards from a pool of \$8 million are anticipated. Interested parties should use the RFA-HD-23-013 link below.
- Implementation Science Network: The Network will expand and/or improve successes achieved by PATC3H to new geographic settings with limited implementation science (IS) research capacity and/or risk populations who are poorly represented in international adolescent HIV research. One award is anticipated from a pool of \$4 million. Interested parties should use the RFA-HD-23-014 link below.

Eligibility:

Unrestricted

Deadline:

12/06/2022

AwardsID(s):

RFA-HD-23-013, RFA-HD-23-014

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-HD-23-013.html>, <https://grants.nih.gov/grants/guide/rfa-files/RFA-HD-23-014.html>

## **The Early Detection Research Network: Clinical Validation Centers**

The National Cancer Institute invites applications for Clinical Validation Centers, which will conduct research to validate biomarkers and/or imaging methods for risk assessment and detection of early-stage cancers. Two types of centers will be funded:

- **Clinical Validation Centers:** The goal of this opportunity is to discover, develop, and validate biomarkers and imaging methods to detect early-stage cancers and precancers that are likely to progress and to translate these into clinical tests. In the context of this opportunity biomarkers are defined as cellular, biochemical, and/or molecular (including genetic and epigenetic) characteristics by which normal and/or abnormal biological processes can be recognized and/or monitored. Six awards are anticipated from a pool of \$4.2 million. Use the link below for opportunity RFA-CA-22-039.
- **Biomarker Characterization Centers:** The National Cancer Institute invites applications for Biomarker Characterization Centers (BCCs), one of the three scientific units of the Early Detection Research Network (EDRN). BCCs will 1) discover, develop, characterize and test new biomarkers or refine existing biomarkers, 2) develop, refine and/or standardize biomarker assays, 3) provide resources and support for the validation of biomarkers developed by the EDRN, and 4) participate in collaborative projects with other laboratories and centers. Six awards are anticipated from a pool of \$4.1 million. Use the link below for opportunity RFA-CA-22-040.

Eligibility:

Unrestricted Domestically

Deadline:

09/08/2022

AwardsID(s):

RFA-CA-22-039, RFA-CA-22-040

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-22-039.html>, <https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-22-040.html>

## **Type 1 Diabetes Mellitus Stakeholder Engagement Innovation Center to Advance Health Equity**

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 1 diabetes research (SEIC-T1D). A primary goal of the SEIC-T1D is to accelerate equitable engagement of diverse stakeholders (specifically people from [NIH designated health disparities populations](#)) in T1D research; particularly those from communities that experience diabetes-related health disparities and live within

the healthcare and social systems that negatively impact community members' and patients' health.

Awards:

\$2.5 million to fund one award

Eligibility:

Unrestricted Domestically

Deadline:

11/17/2022

AwardsID(s):

RFA-DK-22-019

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-DK-22-019.html>

### **Understanding Persistent Signs and Symptoms Attributed to Post-Treatment Lyme Disease**

The National Institute of Allergy and Infectious Diseases invites applications to directly address the causes of continuing symptoms in people with Lyme disease in order to drive the field towards effective therapies for those who are suffering. Studies should directly and specifically address possible causes of persistent symptoms in PTLDS. Examples of hypotheses that may be pursued include, but are not limited to, persistent infection with Lyme *Borrelia* species, autoimmune response triggered by initial infection, persistent inflammatory responses, co-infections, generalized (non-specific) post-infectious syndrome, or other infectious or non-infectious conditions.

Awards:

5-6 awards of up to \$400,000

Eligibility:

Unrestricted Domestically

Deadline:

11/08/2022

AwardsID(s):

RFA-AI-22-046

Links:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-AI-22-046.html>

## **Department of Homeland Security**

### **MSI National Nuclear Forensics Expertise Development Program Nuclear Forensics Research Award**

The Nuclear Forensics Research Award supports the establishment of a team of faculty, students, and technical staff at the national or defense laboratories to conduct research in the field of nuclear forensics. The NFRA is designed to link a qualified graduate



student with a nuclear forensics- relevant research project, that will serve as the basis of his or her thesis and be completed through work at a partner laboratory and the student's home university. Through faculty and laboratory staff participation, a collaborative research process is established through which this graduate fellow is jointly mentored, further enhancing his or her understanding of the nuclear forensics field. Four technical areas of priority interest are described in the solicitation. The NFRA sponsors two graduate fellows per award to pursue Ph.D. - level research within the nuclear forensics field. The award includes full tuition and a stipend for up to 60 months, or five years. This opportunity is specifically focused on Minority Serving Institutions, for which a single award will be made.

Awards:

a single award up to \$1.395 million.

Eligibility:

Minority Serving Institutions of Higher Education.

Deadline:

08/30/2022

AwardsID(s):

DHS-22-DN-130-NFRA-MSI

Links:

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=342531>

## **Department of the Interior**

### **Mine Drainage Technology**

The DOI Office of Surface Mining Reclamation and Enforcement invites applications for studies that address the goals listed below that have the potential for improving the effectiveness of both the coal industry and the regulatory authority to conduct and regulate surface coal mining and reclamation activities that protect the environment and the public:

- Develop an understanding of acidic and toxic mine drainage (MD) so as to better predict, avoid, monitor, and remediate mine drainage;
- Develop innovative solutions to acidic and toxic MD water-quality problems;
- Identify, evaluate, and develop "best science" practices to predict acidic and toxic MD prior to mining;
- Identify successful remediation practices for existing sources of acidic and toxic MD and describe the best technology for its prevention; and,
- Develop an understanding of the availability and cost-effective feasibility of critical minerals (including rare earth elements) recovery from coal waste and acid mine drainage on coal mine sites.

Awards:

One cooperative agreement award of up to \$200,000.

**Eligibility:**

U.S. institutions of higher education, 501(c)(3) nonprofits, Native American tribal organizations, and federal agencies.

**Deadline:**

09/20/2022

**AwardsID(s):**

S22AS00003

**Links:**

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=342563>

**Science and Technology Projects Related to Coal Mining and Reclamation;  
Applied Science Projects**

The DOI Office of Surface Mining Reclamation and Enforcement is requesting applied science proposals for projects to develop and demonstrate improved science-based technologies to address environmental and restoration topics related to the mining of coal and the reclamation of the land after mining. Funded projects will help address important OSMRE issues related to implementation of the Surface Mining Control and Reclamation Act. Applicants may request funding up to \$200,000 to address one or more ten priority research topics described in the solicitation.

**Awards:**

8 awards from a pool of \$1.5 million.

**Eligibility:**

Eligibility is unrestricted.

**Deadline:**

09/20/2022

**AwardsID(s):**

S22AS00002

**Links:**

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=342562>

**National Aeronautics and Space Administration**

**Weather and Atmospheric Dynamics**

NASA invites proposals to support research to obtain accurate measurements of the atmosphere that help improve the understanding and prediction of weather at local, regional, and global scales. Weather includes meteorological phenomena ranging from localized microphysical processes that occur in minutes, to global-scale phenomena that can last an entire season. The Weather and Atmospheric Dynamics Focus Area supports research to measure winds, temperature, humidity, and pressure from space with the aim of improving the knowledge of the fundamental processes that drive meteorological phenomena. There are no limitations on the spatial and geographic

scope of solicited efforts, but studies must link to meteorological and tropospheric phenomena. Proposed research should target processes that are relevant to the spatiotemporal cadence of the observations; however, the incorporation of methods that enable use of study observations to understand multi-scale phenomena is not precluded. Proposals must explicitly focus on remote sensing, and may utilize observations, reanalyses, assimilation, and model capabilities to perform the proposed science. Two sub-elements are described in the solicitation.

Awards:

8-12 awards lasting up to three years.

Eligibility:

Unrestricted domestically

Deadline:

11/02/2022

AwardsID(s):

NNH22ZDA001N-WEATHER

Links:

<https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7bFF3843BB-1D9D-824B-8599-05BDD967E1A4%7d&path=&method=init>

## National Science Foundation

### Formal Methods in the Field

NSF invites proposals for two tracks of awards aiming to bring together researchers in formal methods with researchers in other areas of computer and information science and engineering to jointly develop rigorous and reproducible methodologies for designing and implementing correct-by-construction systems and applications with provable guarantees. Track 1 is for research proposals while Track 2 is for transition to practice. The grants are meant to encourage close collaboration between two groups of researchers. The first group consists of researchers in the area of formal methods, which, for the purposes of this solicitation, is broadly defined as principled approaches based on mathematics and logic to system modeling, specification, design, analysis, verification, and synthesis. The second group consists of researchers in the "field," which, for the purposes of this solicitation, is defined as any area within computer and information science and engineering that currently does not benefit from having established communities already developing and applying formal methods in their research.

All proposals must make a strong case for why formal methods is appropriate for the field area, and why it is one that does not currently benefit from formal methods. Track 1 projects are limited to \$750,000 in total budget, with durations of up to four years. Track 2 projects are limited to \$100,000 in total budget, with durations of up to

18 months. Track 2 proposals are expected to identify a target user community or organization that will serve as an early adopter of the technology.

Awards:

12 Track 1 awards and 10 Track 2 awards.

Eligibility:

Institutions of higher education and Non-profit, non-academic organizations: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities.

Deadline:

02/13/2023

AwardsID(s):

NSF 22-618

Links:

<https://www.nsf.gov/pubs/2022/nsf22618/nsf22618.htm>

### **Graduate Research Fellowship Program**

NSF invites applications to recognize and support outstanding graduate students who are pursuing full-time research-based master's and doctoral degrees in science, technology, engineering, and mathematics (STEM) or in STEM education. The fellowships provide three years of support over a five-year fellowship period for the graduate education of individuals who have demonstrated their potential for significant research achievements in STEM or STEM education. NSF actively encourages women, persons who are members of groups historically underrepresented in STEM, persons with disabilities, and veterans to apply. Fellowship applications must be submitted by the prospective Fellow. Deadlines vary by discipline:

- October 17 - Life Sciences
- October 18 - Computer and Information Science and Engineering, Materials Research, Psychology, Social, Behavioral and Economic Sciences, STEM Education and Learning
- October 20 - Engineering
- October 21 - Chemistry, Geosciences, Mathematical Sciences, Physics and Astronomy

Awards:

The NSF expects to award 2,750 Graduate Research Fellowships of \$147,000.

Eligibility:

Be a U.S. citizen, national, or permanent resident intending to enroll or be enrolled full-time in a research-based Master's or doctoral degree program in an eligible Field of Study in STEM or STEM education

AwardsID(s):

NSF 22-614

Links:

<https://www.nsf.gov/pubs/2022/nsf22614/nsf22614.htm>

### **Ideas Lab: Engineering Technologies to Advance Underwater Sciences**

NSF invites applications to participate in Idea Labs. An Ideas Lab is an intensive meeting that brings together multiple diverse perspectives to focus on finding innovative cross-disciplinary solutions to a grand challenge problem. The aim of this Ideas Lab is to bring together experts from diverse scientific and engineering backgrounds to develop innovative engineering technologies and solutions that will enable real-time and reliable sensing, communications, localization, navigation, and mapping of aquatic environments, including glaciers, rivers, lakes, and oceans, for scientific research and economic development in a sustainable and environmentally responsible manner.

Awards:

Up to 8 awards from a pool of \$8.2 million over 3 years.

Eligibility:

Unrestricted domestically.

Deadline:

09/19/2022

AwardsID(s):

NSF 22-617

Links:

<https://www.nsf.gov/pubs/2022/nsf22617/nsf22617.htm>

### **Mathematical Sciences Postdoctoral Research Fellowships**

The NSF Directorate for Mathematical and Physical Sciences invites proposals to support future leaders in mathematics and statistics by facilitating their participation in postdoctoral research environments that will have maximal impact on their future scientific development. There are two options for awardees: Research Fellowship and Research Instructorship. Awards will support research in areas of mathematics and statistics, including applications to other disciplines.

1. The Research Fellowship option provides full-time support for any eighteen academic-year months in a three-year period, in intervals not shorter than three consecutive months;
2. The Research Instructorship option provides a combination of full-time and half-time support over a period of three academic years, usually one academic year full-time followed by two academic years half-time. This option allows the Fellow the opportunity to gain teaching experience during the two half-time academic years. The full-time fellowship support will be provided during the first year except in extremely unusual circumstances, with any exception subject to approval by the managing program director.

Awards:

35-40 awards from a total pool of \$7.5 million.

Eligibility:

Fellowship applications may only be submitted by individuals.

Deadline:

10/19/2022

AwardsID(s):

NSF-22-619

Links:

<https://www.nsf.gov/pubs/2022/nsf22619/nsf22619.htm>

## **New Foundation R&D Funding Opportunities**

### **American Gastroenterological Association**

#### **Pilot Research Award in Digestive Disease Health Disparities**

The association invites proposals from researchers at any career stage establishing new research and pilot projects in health and health care disparities in digestive diseases. Projects must be related to understanding the causes of or testing interventions intended to eliminate such disparities. They may focus on the pathophysiology, epidemiology, prevention, diagnosis, patient access to or quality of care, treatment or patient outcomes of a digestive disease or disorder associated with a health difference that is closely linked with economic, social or environmental disadvantage.

Awards:

3 one-year awards of \$30,000 each.

Eligibility:

AGA members holding a MD, PhD and/or equivalent degree (e.g., MBBS, MBChB, DO) and a full-time faculty or equivalent position at an institution in North America

Deadline:

08/23/2022

Links:

<https://gastro.org/research-and-awards/apply-for-awards/award/aga-pilot-research-award-in-health-disparities/>

### **Arnold and Mabel Beckman Foundation**

#### **Fundamental chemistry research**

The Arnold O. Beckman Postdoctoral Fellowship supports advanced research by postdoctoral scholars within the core areas of fundamental chemistry or the development and building of chemical instrumentation. Research must be innovative in method, speed, or process or represent new instrument technology. Letters of intent are mandatory. Fellowships will be offered in two tracks:

- Postdoctoral Fellowship in Chemical Sciences: Will support chemists in pursuing advanced research within the core areas of fundamental chemistry, such as chemical physics, chemical engineering, and chemistry of materials research. The fellowship is not intended to fund proposals that are supported by traditional NIH mechanisms in the fields of chemistry, chemical biology, and biochemistry.
- Postdoctoral Fellowship in Chemical Instrumentation: Will support researchers in chemistry in conceptualizing, developing, and building instrumentation suitable for advanced research in chemistry, chemical physics, chemical engineering, and materials science chemistry. Instrumentation projects must be suitable for the two-year fellowship time frame, be driven by a need in the chemical sciences listed above, be innovative in method speed or process, or represent a wholly new instrument for technical advancement in chemistry and may potentially be used for future research in the broader scientific community.

**Awards:**

Two awards are anticipated.

**Eligibility:**

Individuals at a U.S. college, university, or institution which offers postdoctoral fellowships and holds a 501(c)(3) or similarly qualifying IRS designation

**Deadline:**

09/06/2022

**Links:**

<https://www.beckman-foundation.org/programs/beckman-postdoctoral-fellows/>

## Association for Research in Vision and Ophthalmology

### **Glaucoma research**

The association invites applications for two research awards. The Dr. David L. Epstein Award supports a well-established, senior-level investigator with a documented history of conducting eye and vision research in glaucoma and who has a record of successfully mentoring clinician-scientists to independent academic and research careers and will fund a research project that supports the applicant's mentee in the applicant's lab. The applicant's mentee must be committed to becoming a clinician-scientist; the mentee must have an MD or OD degree (or equivalent).

The Genentech Career Development Award for Underrepresented Minority Emerging Vision Scientists provides research funding to early-career underrepresented minority (URM) investigators who have received their initial faculty appointment and are working to establish an independent vision research program. The intent of the award is to provide URM investigators who are early in their careers with an opportunity to explore novel and innovative research project ideas. The successful applicant will have strong scientific mentorship support at their home institution. The association will match the

recipient with a mentor outside of their home institution to provide support related to career advancement.

Awards:

Two \$100,000 awards, one per opportunity.

Eligibility:

ARVO members (at the time of award) for Epstein award. Individuals with historically disadvantaged background for the Genentech award.

Deadline:

09/01/2022

Links:

<https://www.arvo.org/awards-grants-and-fellowships/research-awards/dr.-david-l.-epstein-award/>, <https://www.arvo.org/awards-grants-and-fellowships/research-awards/genentech-career-development-award-for-URM-emerging-vision-scientists/>

## Chan Zuckerberg Initiative

### Insights from single-cell biology datasets

The Chan Zuckerberg Initiative seeks applications for projects that aim to use and gain insights into health and disease from existing single-cell datasets to help accelerate progress toward challenges associated with the compilation and exploration of large atlas-scale data. Grantees will be expected to interact with a network among participating groups that builds community and accelerates progress. Applications are encouraged from computational experts outside the field of single-cell biology but with expertise relevant to overcoming current bottlenecks. The maximum budgets for proposed projects are \$400,000 total costs for *Expanded Projects* and \$200,000 total costs for *Focused Projects*. All awards will be for an 18-month duration. Five attributes of successful proposals are described on the opportunity webpage.

Awards:

Multiple awards may be anticipated.

Eligibility:

domestic and foreign nonprofit organizations including public and private institutions, such as colleges, universities, hospitals, laboratories, units of state and local government, and eligible agencies of the federal government.

Deadline:

08/25/2022

Links:

<https://chanzuckerberg.com/rfa/single-cell-data-insights/>

## Elsa U. Pardee Foundation

### Cancer research



The Elsa U. Pardee Foundation funds research to investigators proposing research directed toward identifying new treatments or cures for cancer. The Foundation funds projects for a one-year period which will allow the establishment of capabilities of new cancer researchers or new cancer approaches by established cancer researchers. It is anticipated that this early-stage funding by the Foundation may lead to subsequent and expanded support using government agency funding. Project relevance to cancer detection, treatment, or cure should be clearly identified. By design, there are no limits set on the grant amount that can be requested, however, applications requesting more than 5% overhead are usually not considered.

Awards:

Multiple awards may be anticipated.

Eligibility:

U.S. nonprofit institutions

Deadline:

08/31/2022

Links:

<https://pardeefoundation.org/how-to-apply/>

## de Beaumont Foundation

### **Modernized Anti-Racist Data Ecosystems (MADE) for Health Justice**

Supported by the Robert Wood Johnson Foundation (RWJF) and the de Beaumont Foundation, Modernized Anti-Racist Data Ecosystems (MADE) for Health Justice is a grant opportunity that seeks to accelerate the development of health-focused local data ecosystems that center principles of anti-racism, equity, justice, and community power. Through MADE for Health Justice, non-profit organizations will be funded to build and facilitate multi-sector teams tasked with creating local data ecosystems. These ecosystems must focus on improving community health, connecting data across multiple sectors of local government, prioritizing the needs and voices of communities oppressed by structural racism, and ultimately driving just and equity-centered decision-making. A proposed team for this opportunity must include, at a minimum:

1. A non-profit organization that will serve as the applicant organization; and
2. Local government entities (e.g., agencies, departments, programs) that represent at least two (2) different sectors that will serve as contributors of local, population-based data and/or analytical services to the initiative.

Awards:

Up to 5 awards of \$1 million.

Eligibility:

U.S. 501(c)(3) organizations

Deadline:

08/31/2022

Links:

<https://debeaumont.org/made-for-health-justice/call-for-applications/>

## **New Challenges and Prize Competitions**

### **National Science Foundation**

#### **Accelerating the adoption and development of privacy-enhancing technologies**

NSF and its U.K. counterpart have jointly launched a set of prize challenges to unleash the potential of privacy-enhancing technologies (PETs) to combat global societal challenges. Announced at the Summit for Democracy last year, innovators from academia, industry, and the broader public will have the opportunity to participate in up to two separate tracks (improving detection of financial crime and forecasting an individual's risk of infection during a pandemic) as well as the option to design one generalized solution that works for both scenarios for broader applicability. Innovators will develop privacy-preserving federated learning solutions that enable artificial intelligence models to be trained on sensitive data without organizations having to reveal, share, or combine their raw data.

The first track – aimed at transforming financial crime prevention – will spur technological innovation to tackle the challenge of international money laundering. PETs can be harnessed to facilitate privacy-preserving financial information sharing and collaborative analytics, allowing anomalous payments to be identified without compromising the privacy of individuals. Innovators will work with synthetic global transaction data created by SWIFT, the global provider of secure financial messaging services. Registered challenge participants will receive access to data that is realistic, but artificial, and therefore does not run the risk of revealing private information.

The second track of the challenges – aimed at bolstering pandemic response capabilities – will strengthen global readiness for ongoing and future public health emergencies by developing privacy-preserving solutions that can forecast an individual's risk of infection. Innovators will have access to a synthetic dataset created by the University of Virginia's Biocomplexity Institute, which represents a digital twin of a regional population.

Awards:

Multiple prizes from a total pool of \$1.6 million.

Eligibility:

U.S. and U.K. innovators

Deadline:

09/04/2022

Links:

<https://petsprizechallenges.com/>

### **Alan T. Waterman Award**

NSF is seeking nominations for exceptional candidates that represent the diversity of the U.S. The Alan T. Waterman is the NSF's Highest Honor. The award recognizes an outstanding early career researcher in any field of science or engineering supported by the NSF. In addition to a medal, the awardee receives a grant of \$1 million to use over a five-year period for scientific research or advanced study in the mathematical, physical, biological, engineering, social, or other sciences at the institution of the recipient's choice. Nominees should have demonstrated exceptional individual achievements in scientific or engineering research of sufficient quality, originality, innovation and significant impact on the field to place them at the forefront of their peers.

Awards:

one

Eligibility:

Be U.S. citizens or permanent residents, 40 years of age or younger OR not be more than 10 years beyond receipt of their Ph.D. by December 31.

Deadline:

09/16/2022

Links:

<https://beta.nsf.gov/od/honorary-awards/waterman>

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