

NJIT Research Newsletter

Issue: ORN-2017-19

NJIT Research Newsletter includes recent awards, and announcements of research related seminars, webinars, national and federal research news related to research funding, and **Grant Opportunity Alerts**. The Newsletter is posted on the NJIT Research Website <http://www.njit.edu/research/>.

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Streamlyne Update

Research proposals are being successfully submitted through Streamlyne. New “How to Do” videos have been posted on the research website <http://www5.njit.edu/research/streamlyne/>. These videos show step-by-step process on the following tasks:

- ◆ [How to Begin Proposal Submission in Streamlyne](#)
- ◆ [How to Input Proposal Budget](#)
- ◆ [How to Process Approvals](#)
- ◆ [How to Upload Proposal Attachments](#)

In addition, most Frequently Asked Question (FAQs) from PIs are posted with answers on the same website as [Streamlyne FAQs](#)

Faculty and staff having any questions on proposal submission, may contact their college representatives, and also follow up with **Justin Samolewicz, Associate Director (Pre Award)** 973-596-3145; justin.m.samolewicz@njit.edu; and **Eric Hetherington, Director, Sponsored Research Programs Administration** 973-596-3631; eric.d.hetherington@njit.edu. The college representatives to help PIs on proposal submissions are

John McCarthy, NCE Director of Research
(973) 596-3247; john.p.mccarthy@njit.edu
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(973) 596-6426; cristo.e.yanezleon@njit.edu
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Grant Opportunity Alerts

Keywords and Areas Included in the Grant Opportunity Alert Section Below

NSF: Centers for Chemical Innovation (CCI) ; Division of Physics: Investigator-Initiated Research Projects (PHY); NSF-Simons Research Centers for Mathematics of Complex Biological Systems (MathBioSys); Innovation Corps - National Innovation Network Teams Program (I-CorpsTM Teams)

NIH: NIH StrokeNet Regional Coordinating Stroke Centers (U24); Revision Applications for Regenerative Medicine Innovation Projects (RMIP) (R01)

Department of Defense/US Army/DARPA/ONR: DoD Duchenne Muscular Dystrophy, Investigator-Initiated Research Award; Peer Reviewed Orthopaedic Clinical Translational Research Award; DoD Peer Reviewed Medical Investigator-Initiated Research Award; Long Range Broad Agency Announcement (BAA) for Navy and Marine Corps Science and Technology

Department of Energy: Request For Information (RFI): Clean Water Technologies

NASA: ROSES 2017: New Investigator Program; ROSES 2017: Early Stage Innovation

National Endowment of Humanities: Summer Stipends; Research and Development Grants

NIHCM Foundation: Research Grants

Recent Research Grant and Contract Awards

Congratulations to faculty and staff on receiving research grant and contract awards!

PI: Angel Rualdo Soto-Chavez (PI)

Department: Center for Solar-Terrestrial Research

Grant/Contract Project Title: GEM: The Generation of Falling-Tone Chorus and Scattering of Particles by Chirped Waves

Funding Agency: NSF

Duration: 06/01/16-05/31/19

PI: Monique Paden-Hutchinson (PI)

Department: Center for Pre-College Programs (CPCP)

Grant/Contract Project Title: Upward Bound

Funding Agency: Department of Education

Duration: 09/01/17-08/31/22

PI: Monique Paden-Hutchinson (PI)

Department: Center for Pre-College Programs (CPCP)

Grant/Contract Project Title: Upward Bound 2

Funding Agency: Department of Education

Duration: 09/01/17-08/31/22

PI: Xuan Liu (PI)

Department: Electrical and Computer Engineering

Grant/Contract Project Title: Science-driven Data Management for Multi-tiered Storage

Funding Agency: Department of Energy

Duration: 06/01/17-09/30/19

In the News...

(National and Federal News Related to Research Funding and Grant Opportunities)

National Academies (Engineering, Science and Medicine) Report on Undergraduate Research Experience (URE): The Committee on Strengthening Research Experiences for Undergraduate STEM Students of the National Academies (National Academy of Engineering, National Academy of Science and National Academy of Medicine) has strongly recommended strategic enhancements in external and internal resources for developing more opportunities for engaging undergraduate students in research in educational programs at all levels (https://download.nap.edu/cart/download.cgi?record_id=24622). The report noted the following characteristic benefits from a variety of different types of URE programs. Due to the variation in the types of UREs, not all experiences include all of the following characteristics in the same way; experiences vary in how much a particular characteristic is emphasized.

- They engage students in research practices including the ability to argue from evidence.
- They aim to generate novel information with an emphasis on discovery and innovation or to determine whether recent preliminary results can be replicated.
- They focus on significant, relevant problems of interest to STEM researchers and in some cases a broader community (e.g., civic engagement).
- They emphasize and expect collaboration and teamwork.
- They involve iterative refinement of experimental design, experimental questions, or data obtained.
- They allow students to master specific research techniques.
- They help students engage in reflection about the problems being investigated and the work being undertaken to address those problems.
- They require communication of results, either through publication or presentations in various STEM venues.
- They are structured and guided by a mentor, with students assuming increasing ownership of some aspects of the project over time.

Some of the recommendations made in the report include:

Recommendation 1: Researchers with expertise in education research should conduct well-designed studies in collaboration with URE program directors to improve the evidence base about the processes and effects of UREs.

Recommendation 2: Funders should provide appropriate resources to support the design, implementation, and analysis of some URE programs that are specifically designed to enable detailed research establishing the effects on participant outcomes and on other variables of interest such as the consequences for mentors or institutions.

Recommendation 3: Designers of UREs should base their design decisions on sound evidence.

Recommendation 4: Institutions should collect data on student participation in UREs to inform their planning and to look for opportunities to improve quality and access.

Recommendation 5: Administrators and faculty at all types of colleges and universities should continually and holistically evaluate the range of UREs that they offer.

Full report is available on the website https://download.nap.edu/cart/download.cgi?record_id=24622.

Department of Energy Seeks Proposals on Cost-Effective Clean Water Technologies: The Department of Energy is soliciting ideas from industry, academia, research laboratories, government agencies, and others on research "with the potential to reduce the cost and energy and increase performance of approaches to clean water processing and production." DOE wants to "identify technology and knowledge gaps that if addressed would enable clean water production from (i) a variety of sources, (ii) through the least possible energy consumption and (iii) by optimizing the use of renewable and waste energy sources." More information and the RFP **DE-FOA-0001676** (also included below in Grant Opportunity section) is available on the website <https://eere-exchange.energy.gov/default.aspx#FoalId46380d32-05f4-43ed-96a7-9a4e43151674>

NSF Policy and Awards Update (May 2017): NSF Pilots a New Collaborator and Other Affiliations Template: Last month NSF began piloting a new format for submitting Collaborators and Other Affiliations Information in FastLane. Proposers are required to include collaborators and other affiliations information for principal investigators (PIs), co-PIs and other senior project personnel. NSF uses this information to manage reviewer selection. The pilot standardizes the collection of this data across the Foundation and ensures that the information is submitted in a searchable format. This reduces the burden on NSF program staff who currently must spend time manipulating non-searchable files. Likewise, for the community, proposers can rest assured knowing that their format is acceptable to NSF. The new format requires PIs, co-PIs and other senior project personnel who are identified on the proposal to individually upload their Collaborators and Other Affiliations Information as a Single Copy Document which are only seen by NSF staff and not by reviewers.

Proposers will be directed to the new spreadsheet template while in FastLane. The template is fillable, and the content and format requirements must not be altered by the user. Proposers should not convert the file to PDF format prior to submitting the proposal to NSF, rather it should be completed and saved in .xlsx or .xls format to ensure preservation of searchable text, and uploaded into FastLane as a Single Copy Document. Using any other file format may delay the timely processing and review of the proposal. The template has been tested in Microsoft Excel, Google Sheets and LibreOffice. In addition to benefiting the merit review process, this template provides a compliant and reusable format for PIs to maintain and update for use in subsequent proposal submissions to NSF. The new Collaborators and Other Affiliations pilot only applies to FastLane proposal submissions. Grants.gov proposal submissions shall continue to follow the instructions in the Grants.gov Application Guide, Chapter VI. 2.4.

More information on

https://www.nsf.gov/pubs/2017/nsf17084/nsf17084.pdf?WT.mc_id=USNSF_109

NSF Policy and Awards Update (May 2017): NSF Research Terms and Conditions (RTC): Implementation: the revised Research Terms and Conditions (RTCs) have been made available to research agencies for use with research and research-related awards. The RTCs address and implement the Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (2 CFR 200). The RTCs incorporate the entire Uniform Guidance by reference and clarify or supplement existing provisions where appropriate. They further incorporate by reference the most recent Office of Management and Budget (OMB) FAQs (<https://cfo.gov/cofar/cofar-resources/>) in the Uniform Guidance. Pertinent sections of the Uniform Guidance are presented on the left side, and clarifications for research and research-related awards on the right. More information is posted on CFO-United States website <https://cfo.gov/cofar/cofar-resources/>

President Trump's Budget and Research Funding: President Donald Trump unveiled his [full 2018 budget request](#) to Congress today. The spending plan, for the fiscal year that begins 1 October, fleshes out the so-called [skinny budget that the White House released this past March](#). That plan called for [deep cuts to numerous research agencies](#). But it did not include numbers for some key research agencies, such as the National Science Foundation (NSF). *ScienceInsider* will be scouring today's budget documents for fresh details. Come back to our rolling coverage for analysis and reaction. As expected, the National Institutes of Health's (NIH's) budget would be slashed to \$26.9 billion in the full Trump 2018 budget request. That is \$7.7 billion less than NIH's final 2017 budget of \$34.6 billion, or a 22% cut.

In a [widely anticipated move](#) that has already raised alarm bells at research institutes, a White House [budget document](#) states that "significant reductions" will come from slashing the overhead payments that NIH now pays to universities on top of the direct research costs for a project. These so-called indirect costs, which are paid at rates now negotiated between individual institutions and the government, currently comprise about 30% of NIH's total grant funding. The variable indirect cost rates would be replaced with a uniform rate of 10% of total research costs for all NIH grants to reduce paperwork and "the risk for fraud and abuse," states a [budget document](#) for the Department of Health and Human Services (HHS). A 10% cap would bring NIH's indirect costs rate "more in line" with the rate paid by private foundations such as the Bill & Melinda Gates Foundation, the overall budget document notes. NIH will also work to reduce regulatory burdens on grantees.

The White House's proposed 11 percent reduction would bring some National Science Foundation programs "closer to the levels you would have seen in NSF's budget a decade ago," [says Director France Córdova](#). "We understand and appreciate the apprehension felt by many, particularly in the research community, caused by the potential effects of adjusted funding levels." Never before had a president proposed giving NSF less than its current budget, reports Jeff Mervis in [ScienceInsider](#). In working out how to respond, NSF set priorities, including "maintaining capacity across all six research directorates and NSF's education programs," funding "the best unsolicited ideas from academic researchers," and "support for cross-disciplinary research and interagency efforts." More information on <http://www.sciencemag.org/news/2017/05/what-s-trump-s-2018-budget-request-science>

Webinar and Events

Event: NIH Webinar: ORS: FDA - Assessing the Predictive Capability of Computational Modeling for Medical Device Submissions

When: June 9, 2017; 10.00 AM – 11.00 AM

Website: <https://register.gotowebinar.com/register/4518213618990254851>

About the Webinar: The Center for Devices and Radiological Health is committed to advancing regulatory science with computational modeling. This presentation will cover the new standard from the ASME Verification and Validation (V&V 40) subcommittee on Computational Modeling for Medical Devices. Computational modeling can be used throughout the product life cycle to provide information about the technical performance, safety, and effectiveness of medical devices. Computational models can also be used to assess aspects of in vivo performance without subjecting patients to potential harm or unnecessary risk. Establishing the credibility of a computational model to assess in vivo performance is important because of the inherent risk. Model credibility can be established through verification and validation (V&V) activities. Although methods for V&V are well-established, guidance is lacking on assessing the adequacy of the V&V

activities for computational models used to support medical device development and evaluation. Given the inherent risk of using a computational model as a basis for predicting medical device performance, a risk-informed credibility assessment framework has been developed. The framework centers on establishing that model credibility is commensurate with the risk associated with decisions influenced by the computational model. Thus, the intent of this standard is to provide guidance on how to establish risk-informed credibility goals, which are used in the development of the V&V plan, and then determine and communicate the credibility of computational models used in the evaluation of medical devices.

Speaker: Tina Morrison, PhD

FDA/CDRH

Deputy Director, Division of Applied Mechanics, Office of Science and Engineering Laboratories

Register at: <https://register.gotowebinar.com/register/4518213618990254851>

Event: AAAS Science Webinar: Monitoring immune function by imaging flow cytometry

When: June 7, 2017; 12.00 PM – 1.00 PM

Website: webinar.sciencemag.org

About the Webinar: The immune system plays a critical role not only in fending off pathogen attack, but also in cancer surveillance, and more recently as a tool in immunotherapy-based treatments. Immune cell functions are tightly regulated by essential transcription factors such as NF- κ B and NFAT. Monitoring immune cell activity—including phenotyping immune cell subsets, tracking cell proliferation, and measuring cytokine production—can provide insights into the overall status of immune function in patients, particularly those undergoing immunosuppression after transplants, enduring cancer treatment, or suffering from autoimmune disease or other pathologies that affect the immune system. Imaging flow cytometry (IFC) has emerged as a useful and efficient tool for studying the signaling pathways in immunophenotypically defined subpopulations of immune cells. This technique enables quantitative image analysis of the intracellular localization of the signaling intermediaries NF- κ B and NFAT as parameters of immune activity. This webinar will introduce viewers to the process of using IFC to determine subcellular localization of biomarkers, including a discussion of how IFC can help to assess the activity of transcription factors, or the drug-induced stimulation or inhibition thereof, in clinical samples.

Participants:

Orla Maguire, Ph.D.

Roswell Park Cancer Institute

Buffalo, NY

Register at: webinar.sciencemag.org

Grant Opportunities

National Science Foundation

Grant Program: Centers for Chemical Innovation (CCI)

Agency: National Science Foundation NSF 17-564

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17564/nsf17564.htm>

Brief Description: The Centers for Chemical Innovation (CCI) Program supports research centers focused on major, long-term fundamental chemical research challenges. CCIs that address these challenges will produce transformative research, lead to innovation, and attract broad scientific

and public interest. CCIs are agile structures that can respond rapidly to emerging opportunities through enhanced collaborations. CCIs integrate research, innovation, education, broadening participation, and informal science communication.

The FY 2018 Phase I CCI competition is open to projects in all fields supported by the Division of Chemistry, and must have focus and the potential for transformative impact in chemistry. *NSF Chemistry particularly encourages projects in Data-Driven Discovery Science in Chemistry (D3SC).*

The CCI Program is a two-phase program. Both phases are described in this solicitation. Phase I CCIs receive significant resources to develop the science, management and broader impacts of a major research center before requesting Phase II funding. Satisfactory progress in Phase I is required for Phase II applications; Phase I proposals funded in FY 2018 will seek Phase II funding in FY 2021. This solicitation also covers the renewal application of the Phase II CCI initiated in FY 2013: CAICE, led by the University of California San Diego.

Awards: Standard Grants. **Anticipated Funding Amount:** \$9,400,000.

Letter of Intent: Not Required

Preliminary Phase-1 Proposal: September 12, 2017

Full Proposal Submission Due Date: March 06, 2018: Phase I Full Proposals, by invitation only

- **Contacts:** Katharine J. Covert, telephone: (703) 292-4950, email: kcovert@nsf.gov
- Lin He, telephone: (703) 292-4956, email: lhe@nsf.gov

Grant Program: Division of Physics: Investigator-Initiated Research Projects (PHY)

Agency: National Science Foundation NSF 17-561

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17561/nsf17561.htm>

Brief Description: The Division of Physics (PHY) supports physics research and the preparation of future scientists in the nation's colleges and universities across a broad range of physics disciplines that span scales of space and time from the largest to the smallest and the oldest to the youngest. The Division is comprised of disciplinary programs covering experimental and theoretical research in the following major subfields of physics: Accelerator Science; Atomic, Molecular and Optical Physics; Computational Physics; Elementary Particle Physics; Gravitational Physics; Integrative Activities in Physics; Nuclear Physics; Particle Astrophysics; Physics of Living Systems; Plasma Physics (supported under a separate solicitation); and Quantum Information Science.

Additional Information

The Physics Division strongly encourages single proposal submission for possible co-review rather than multiple submissions of proposals with slight differences to several programs.

Awards: Standard Grants. **Anticipated Funding Amount:** \$90,000,000.

Letter of Intent: Not Required

Full Proposal Submission Due Date: Various depending on the area;

October 25, 2017 for Atomic, Molecular & Optical Physics - Experiment & Theory; Elementary Particle Physics - Experiment; Gravitational Physics - Experiment & Theory; Integrative Activities in Physics; LIGO Research Support; Particle Astrophysics - Experiment; Physics of Living System

Contacts: Krastan B. Blagoev, Physics of Living Systems, telephone: (703) 292-4666, email: kblagoev@nsf.gov

Michael J. Cavagnero, Atomic, Molecular and Optical Physics - Theory, telephone: (703) 292-2163, email: mcavagne@nsf.gov

Mark Coles, Projects and Facilities, telephone: (703) 292-4432, email: mcoles@nsf.gov

Jean Cottam Allen, Particle Astrophysics (Cosmic Phenomena) - Experiment, telephone: (703) 292-8783, email: jcallen@nsf.gov

Grant Program: NSF-Simons Research Centers for Mathematics of Complex Biological Systems (MathBioSys)

Agency: National Science Foundation NSF 17-560

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17560/nsf17560.htm>

Brief Description: The purpose of the NSF-Simons Research Centers for Mathematics of Complex Biological Systems (MathBioSys) is to enable innovative collaborative research at the intersection of mathematics and molecular, cellular and organismal biology, to establish new connections between these two disciplines, and to promote interdisciplinary education and workforce training. The National Science Foundation Directorates for Mathematical and Physical Sciences (MPS) and for Biological Sciences (BIO) and the Simons Foundation Division of Mathematics and the Physical Sciences (MPS) and Division of Life Sciences shall jointly sponsor up to three new research centers to facilitate collaborations among groups of mathematicians, statisticians, and biologists. Research activities conducted at each center will be focused on a particular set of topics at the interface of the mathematical sciences with molecular, cellular, and organismal biology. Each center will conduct interdisciplinary education and training through research involvement of recent doctoral degree recipients and graduate students from across this multi-disciplinary spectrum. Each center is also expected to conduct convening activities, including short-term and/or long-term visitors programs, workshops, and/or outreach activities. These centers will have annual meetings of the Principal Investigators (PIs) and other principal researchers, held at the Simons Foundation in New York City.

Awards: Continuing Grants. **Anticipated Funding Amount:** \$30,000,000.

Letter of Intent: Not Required

Full Proposal Submission Due Date: Proposals Accepted Anytime

- **Contacts:** ary Ann Horn, Directorate for Mathematical and Physical Sciences, NSF, telephone: (703) 292-4879, email: mhorn@nsf.gov
 - Arcady Mushegian, Directorate for Biological Sciences, NSF, telephone: (703) 292-8528, email: amushegi@nsf.gov
-

Grant Program: Innovation Corps - National Innovation Network Teams Program (I-CorpsTM Teams)

Agency: National Science Foundation NSF 17-559

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17559/nsf17559.htm>

Brief Description: The National Science Foundation (NSF) seeks to develop and nurture a national innovation ecosystem that builds upon fundamental research to guide the output to facilitate the application of scientific discoveries closer to the development of technologies, products and processes that benefit society.

In order to maintain, strengthen and grow a national innovation ecosystem, NSF has established the Innovation Corps - National Innovation Network Teams Program (I-Corps Teams). The NSF I-Corps Teams Program purpose is to identify NSF-funded researchers who will receive additional support in the form of entrepreneurial education, mentoring and funding to accelerate innovation that can attract subsequent third-party funding.

The purpose of the NSF I-Corps Teams grant is to give the project team access to resources to help determine the readiness to transition technology developed by previously-funded or currently

funded NSF projects. The outcomes of I-Corps Teams projects will be threefold: 1) a clear go /or no go decision regarding viability of products and services, 2) should the decision be to move the effort forward, a transition plan for those projects to move forward, and 3) a definition of a compelling technology demonstration for potential partners.

WEBINAR

A webinar will be held monthly to answer questions about this program. Details will be posted on the I-Corps website (see https://www.nsf.gov/news/special_reports/i-corps/program.jsp) as they become available.

Awards: Standard Grants. **Anticipated Funding Amount:** \$12,750,000.

Letter of Intent: Not Required

Full Proposal Submission Due Date: Proposals Accepted Anytime

Contacts: Steven Konsek, telephone: (703) 292-7021, email: skonsek@nsf.gov

National Institutes of Health

Grant Program: NIH StrokeNet Regional Coordinating Stroke Centers (U24)

Agency: National Institutes of Health PAR-17-276

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-17-276.html>

Brief Description: Stroke is a disabling, often fatal and expensive disorder that is a major public health burden. Globally it is the second leading cause of death, but in North America stroke has fallen to the fourth most common cause of mortality as the result of ongoing successes in prevention and acute care. Vascular disease of the brain can manifest not only as overt stroke but also as silent infarction and diffuse white matter disease with cognitive and functional decline. Stroke is a syndrome, with two broad types (ischemic and hemorrhagic) and with multiple possible underlying causes. Although stroke impacts all age groups (including children and especially neonates), the incidence is strongly linked to aging. Stroke will become increasingly prominent in the next 30 years with the projected rise in the proportion of elderly in the US, and it will impose an even more significant toll on individuals, families, and society.

NIH-funded basic, translational and clinical research offers the promise to reduce the burden of stroke.

The Stroke Progress Review Group and NINDS stroke planning efforts identified a need for stroke trial network infrastructure to effectively pursue a number of scientific opportunities and to accelerate translation (see http://www.ninds.nih.gov/find_people/ninds/OSPP/Stroke-Research-Priorities-Meeting-2012.htm). The unbiased evaluation of newly-developed and existing interventions—drugs, devices and systems of care—in randomized, controlled clinical trials are necessary to establish efficacy of interventions for improving important clinical outcomes. Phase 1/2 trials explore safety, target engagement, proof of biological concept, and dose response to inform Phase 3 efficacy trials. Phase 3 efficacy trials are designed to demonstrate clinical benefit that patients consider meaningful. Comparative effectiveness trials examine how to best apply established efficacious treatments.

In 2013, the NIH StrokeNet was established to conduct clinical trials in a centrally coordinated network that includes 25 regional centers that are linked to over 350 stroke hospitals across the United States. The NIH StrokeNet was designed to rapidly initiate and efficiently implement small and large multi-site exploratory and confirmatory clinical trials focused on promising interventions for stroke prevention, treatment and recovery, as well as validation studies of biomarkers or outcome measures. The network includes an education platform designed to train the next generation of stroke clinical researchers and collaborations from a variety of health

professionals across multiple disciplines. The interdisciplinary nature of the NIH StrokeNet is expected to build research capabilities that match the scientific opportunities across the spectrum of stroke research. Additional information on the current structure of the network can be found at: www.nihstrokenet.org.

Research Objectives

The aims of the network are to harness multidisciplinary stroke expertise to collaboratively and efficiently conduct exploratory NINDS-sponsored Phase 1/2 clinical trials for stroke interventions with the goal to quickly move potential treatments into larger, confirmatory Phase 3 trials. In addition, the network may perform biomarker validation studies that are immediately preparatory to clinical trial(s). Collaboration with international consortia will facilitate the execution of the larger, Phase 3 definitive trials. Together with the larger U.S. and the international stroke research community, stroke patients, and stroke-related nonprofit associations, the investigators at the RCC's will work to design and execute the most clinically impactful stroke research. Study execution and performance will be monitored by the NINDS and the National Clinical Coordinating (NCC) and National Data Management (NDMC) Centers to ensure that all eligible stroke patients are considered for NINDS-funded trials. The NINDS intends that the NIH StrokeNet will be the primary and first-line infrastructure involved in implementing all multi-site stroke trials submitted to the NINDS.

Network Organization

The NIH StrokeNet currently includes: one NCC, one NDMC and 25 RCC's that have the capacity of coordinating activities in a large number of Stroke Centers across the United States. This FOA encourages both currently awarded network centers and new center applications for funding of infrastructure for RCC's in the NIH StrokeNet. The additional project-specific funds to support the implementation of protocols conducted in the network will be from separate awards. Projects can come from academic investigators, from small business or industry through a CRADA or from the NINDS through a specific funding opportunity announcement. Collaborative projects developed by site investigators in the network will be strongly encouraged. These funds will be distributed to the RCC's via the NCC on a per-patient basis protocol budgets via master trial agreements with the RCC's.

Awards: NIH intends to fund an up to 25 awards, corresponding to a total of \$8,700,000, for fiscal year 2018. Future year amounts will depend on annual appropriations. The Maximum allowable direct cost per year for a NIH StrokeNet RCC will be \$200,000 per year up to 5 years.

Letter of Intent: 30 days prior to application due Date

Deadline: September 25, 2017, by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on this date.

Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

Grant Program: Revision Applications for Regenerative Medicine Innovation Projects (RMIP) (R01)

Agency: National Institutes of Health RFA-HL-17-029

RFP Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-HL-17-029.html>

Brief Description: Research projects responsive to this FOA are expected to involve both of the following: (1) human subjects or material of human origin, such as cells, tissues, and specimens; and (2) human stem cells that are not of embryonic or fetal origin. Research projects involving induced pluripotent stem (iPS) cells may be supported, as long as the cells used to generate iPS cells were not of fetal or embryonic origin. Applicable research on adult human stem cells may

encompass, for example, research on biologics (e.g., growth factors, cytokines) and biomaterials (e.g., ECM, scaffolds) that stimulate host adult stem cell growth, differentiation, and function or otherwise directly act upon adult stem cells to support innate host healing mechanisms, treat disease, and/or restore function. Funding could be used, for example, for the appropriate chemistry, manufacturing, and controls development to support the production of such products for clinical trials using good manufacturing practices (GMP). Funds may not be used for research involving human cells of embryonic or fetal origin.

This FOA will support highly meritorious clinical research projects proposing to explore and enable the development of safe and effective RM interventions. Specifically, for FY 2017 funds, in addition to being subject to the standard NIH review criteria, clinical research projects for this FOA will also be assessed according to the following criteria:

- Contributes to breadth/diversity of RM science;
- Addresses critical issues relevant to clinical research and regulatory submissions including those related to product development. Areas of focus may include improved tools, methods, standards, or applied science that support a better understanding and improved evaluation of product manufacturing, quality, safety, or effectiveness; and
- Helps to significantly build or advance the field of RM by contributing to foundational knowledge while addressing a well-recognized challenge in clinical development including the development and evaluation of safe and effective RM products.

Research Examples

Applications that demonstrate potential to catalyze sustained and accelerated development of the RM field through contributing to the knowledge critical for product development, clinical testing, and data standards and sharing, are strongly encouraged. For example, such projects may:

- Further development of standards and GMP for adult stem cell-based RM products;
- Leverage extant cell production facilities for product preparation and qualification;
- Promote and enhance mechanisms for data standardization, curation, integration, and sharing;
- Utilize clinical trial network(s) to leverage infrastructure and facilitate subject recruitment and follow up as well as data sharing; and/or
- Contribute to a better and shared understanding of current technical and operational barriers as well as the regulatory science issues.

Awards: Application budgets should not exceed \$324,500 per year in direct costs. See details in [R&R or Modular Budget](#)

Letter of Intent: May 26, 2017

Deadline: June 26, 2017, by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on this date.

No late applications will be accepted for this Funding Opportunity Announcement.

Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

Department of Defense/US Army/DARPA/ONR

Grant Program: DoD Duchenne Muscular Dystrophy, Investigator-Initiated Research Award

Agency: Department of Army USAMRAA W81XWH-17-DMDRP-IIRA

Website: <http://cdmrp.army.mil/funding/>

Brief Description: The DMDRP Investigator-Initiated Research Award (IIRA) supports translational research that will accelerate the movement of promising ideas in Duchenne research

into clinical applications. Translational research may be defined as an integration of basic science and clinical observations with the specific goal of developing new therapies. The ultimate goal of translational research is to move a concept or observation forward into clinical application. However, Principal Investigators (PIs) should not view translational research as a one-way continuum from bench to bedside. The research plan should involve a reciprocal flow of ideas and information between basic and clinical science. Within this continuum, the IIRA supports later-stage translational research projects, including early-phase, proof-of-principle clinical trials and correlative studies to better inform development of drugs, devices, and other interventions. Research projects may also include preclinical studies utilizing animal models, human subjects, or human anatomical substances. Studies proposed under this award should not include: • Target discovery • Drug screening • Mechanism of action studies All applications must include preliminary data that are relevant to Duchenne and the proposed project. Clinical trials are supported by this award mechanism and, if proposed, require the submission of Attachment 12: Human Subject Recruitment and Safety Procedures. Optional Features: The IIRA mechanism allows for the inclusion of the following options, which would allow the applicant to request additional funds as described in Section II.D.5, Funding Restrictions. The Government reserves the right to fund an application at a lower funding level if it does not meet the eligibility criteria or intent of the optional feature(s). Optional Multidiscipline Collaborator (OMC): The FY17 DMDRP strongly encourages multidisciplinary collaborations among academic scientists and clinicians, industry scientists, the military Services, the Department of Veterans Affairs, and other Federal government agencies. The goal of the OMC is to bring new perspectives from other disciplines or bring new investigators into the Duchenne field by supporting projects that include multidisciplinary collaborations including, but not limited to immunology, nanotechnology, or orthopaedics. Optional Nested Resident or Medical Student Traineeship: The intent of the Nested Resident or Medical Student Traineeship is to provide mentored research opportunities in Duchenne. It is expected that the training will provide a valuable opportunity to develop the experience necessary to advance the trainee's research career in Duchenne. Only one traineeship may be requested per application. Plans for training and mentorship must be well developed and clearly described by the PI in Attachment 9: Statement of Traineeship..

Awards: Anticipated funding: \$600,000

Proposal Deadline: October 18, 2017

Contact Information: CDMRP Help Desk Phone: 301-682-5507 Email: help@eBRAP.org

Grant Program: Peer Reviewed Orthopaedic Clinical Translational Research Award

Agency: Department of Defense USAMRAA W81XWH-17-PRORP-CTRA

Website: <https://www.scholarshipandgrants.com/scholarships/peer-reviewed-orthopaedic-clinical-translational-research-award/>

Brief Description: The FY17 PRORP Clinical Translational Research Award is intended to support high-impact and/or new/emerging clinical research that may or may not be ready for a full-scale randomized controlled clinical trial. Projects should include translational research that evaluates the effectiveness of healthcare practices and/or interventions in neuromusculoskeletal injuries rehabilitation. Projects should demonstrate potential to impact the standard of care, as well as contribute to evidence-based guidelines for the evaluation and care of military or Veteran patients with orthopaedic injuries including, but not limited to, amputation and/or limb salvage. One goal is to better understand and optimize the experiences, health, functional abilities, and quality of life of individuals who receive treatment for traumatic orthopaedic injuries. Another goal is to identify the most effective diagnosis, treatment, rehabilitation, and prevention options

available to support critical decision making for patients, clinicians, other caregivers, and policymakers. Proposed projects should be designed to provide information about the impact, advantages, disadvantages, and risks of specific healthcare practices and interventions. To meet the intent of the award mechanism, applications must specifically address one primary FY17 PRORP Focus Areas listed in Section II.A.1, above. Funding from this award mechanism must support clinical research studies involving human subjects. The proposed studies may be interventional and may involve some retrospective data analysis. Small pilot clinical trials with human subjects are also allowable. A clinical trial is defined as a prospective accrual of human subjects where an intervention (e.g., device, drug, biologic, surgical procedure, rehabilitative modality, behavioral intervention, or other) is tested on a human subject for a measurable outcome with respect to safety, effectiveness, and/or efficacy. This outcome represents a direct effect on the human subject of that intervention or interaction. The term “human subjects” is used in this Program Announcement to refer to individuals who will be recruited for or who will participate in the proposed clinical research. For more information, a Human Subject Resource Document is provided at <https://ebrap.org/eBRAP/public/Program.htm>. Note that purely retrospective or database- related research is not allowed under this funding opportunity. The anticipated total costs budgeted for the entire period of performance for an FY17 PRORP Clinical Translational Research Award will not exceed \$2M. Refer to Section II.D.5, Funding Restrictions, for detailed funding information. Animal research, to develop or refine new technology or research to establish the efficacy/ effectiveness of diagnostic agents, or otherwise, is not allowed under this funding opportunity. Investigators seeking support to conduct studies involving animal research should consider applying to the FY17 PRORP Applied Research Award (Funding Opportunity Number: W81XWH-17-PRORP-ARA) mechanism, which can be accessed at <http://cdmrp.army.mil/funding/default.shtml>. All applications are required to articulate the relevance of the proposed project to military and/or Veteran populations affected by orthopaedic injury. Studies that address how the proposed research outcomes will provide new paradigms for or novel insights into the rehabilitation of Service members and/or Veterans who have sustained orthopaedic injuries are strongly encouraged. Studies that include active duty military or Veteran participants as all or a portion of the study population are encouraged. Collaboration with military and VA researchers and/or clinicians is also encouraged.

Awards: Anticipated funding: \$4,000,000

Proposal Deadline: September 27, 2017

Contact Information: CDMRP Help Desk Phone: 301-682-5507 Email: help@eBRAP.org

Grant Program: DoD Peer Reviewed Medical Investigator-Initiated Research Award

Agency: Department of Defense USAMRAA W81XWH-17-PRMRP-IIRA

Website: <https://www.grants.gov/web/grants/search-grants.html>

Brief Description: The PRMRP Investigator-Initiated Research Award is intended to support studies that will make an important contribution toward research and/or patient care for a disease or condition related to at least one of the Congressionally directed FY17 PRMRP Topic Areas. The rationale for a research idea may be derived from a laboratory discovery, population-based studies, a clinician’s first-hand knowledge of patients, or anecdotal data. Applications must include relevant data that support the rationale for the proposed study. These data may be unpublished or from the published literature. The program seeks applications in laboratory, clinical, behavioral, epidemiologic, and other areas of research to advance knowledge in disease etiology, improve prevention, detection, diagnosis, treatment, and quality of life for those affected

by a relevant disease or condition, and to develop and validate clinical care or public health guidelines.

Awards: Various; Anticipated funding: \$90,000,000

Proposal Deadline: October 18, 2017

Contact Information: CDMRP Help Desk 301-682-5507 help@eBRAP.org

Grant Program: Long Range Broad Agency Announcement (BAA) for Navy and Marine Corps Science and Technology

Agency: Department of Defense ONR N00014-17-S-B001

Website: <https://www.onr.navy.mil/Contracts-Grants/Funding-Opportunities/Broad-Agency-Announcements>

Brief Description: The Office of Naval Research (ONR) is interested in receiving proposals for Long-Range Science and Technology (S&T) Projects which offer potential for advancement and improvement of Navy and Marine Corps operations. Readers should note that this is an announcement to declare ONR's broad role in competitive funding of meritorious research across a spectrum of science and engineering disciplines. A brief description of the ONR Program Codes and the science and technology thrusts that ONR is pursuing is provided below. Additional information can be found at the ONR website at <http://www.onr.navy.mil/Science-Technology/Departments.aspx>.

Code 30 develops and transitions technologies to enable the Navy-Marine Corps team to win and survive on the battlefield. The department invests primarily in asymmetric and irregular warfare, distributed operations, information dominance, and survivability and self-defense. To achieve the goals of the department, the expertise of a number of technical communities are needed. The department supports applied physics efforts ranging from electromagnetics for C4 to condensed matter physics. The department engages chemistry and materials science to improve structures and efficiencies of our platforms and systems and is interested in emerging opportunities from the computer science community to efficiently control and protect our information and hardware systems. Given the applied nature of some of the department's work, we frequently support ideas and opportunities from the engineering community including electrical, mechanical, and software engineering.

Code 31 invests in areas of science and their applications such as data science, mathematical and computational science, computer and information sciences, quantum information sciences, cyber security, electronics, command and control and combat systems, communications, cyber operations, electronic warfare, sensing and surveillance, and precision timing and navigation. Specific thrusts and focused research areas are: 1) Mathematics, Computers and Information Sciences, which sponsors basic and applied research, and advanced technology development efforts in mathematics, computer and information sciences that address Navy and Department of Defense needs in computation, information processing, information operation, information assurance and cybersecurity, decision tools, and command and control with specific focus on enabling rapid, accurate decision making (<http://www.onr.navy.mil/Science-Technology/Departments/Code-31/AllPrograms/311-Mathematics-Computers-Research.aspx>).

White Paper: Required

Awards: Various

White Paper Deadline: August 31, 2017

Proposal Received by ONR

April-June 2017

Period of Performance Start

September 2017

July-September 2017

January 2018

Contact Information: Questions of a Technical nature should be submitted to the ONR POC whose program best matches the offeror's field of interest. Explore ONR's website at <http://www.onr.navy.mil/Science-Technology/Contacts.aspx> , where you can navigate the various directorates and departments within the ONR umbrella. Embedded within the specific exploratory threads should be the relevant POC information for the cognizant ONR Program Office that you seek.

Department of Energy

Grant Program: Request For Information (RFI): Clean Water Technologies

Agency: Department of Energy DE-FOA-0001676

Website: <https://eere-exchange.energy.gov/default.aspx#FoaId46380d32-05f4-43ed-96a7-9a4e43151674>

Brief Description: EERE's Advanced Manufacturing Office (AMO) partners with industry, small business, universities, and other stakeholders to identify and invest in emerging technologies with the potential to create high-quality domestic manufacturing jobs and enhance the global competitiveness of the United States. Through this Request for Information, EERE, on behalf of AMO, seeks feedback on technologies with the potential for early stage research and development (R&D) that if successfully advanced could impact the cost-effective and energy efficient availability of clean water processed from a variety of sources such as surface water, ground water, brackish water, seawater, wastewater and produced water for a range of applications including municipal drinking water, agricultural uses, and industrial needs.

Responses to this RFI must be submitted electronically to AMOCleanWater@ee.doe.gov no later than 5:00 pm (EDT) on July 28, 2017. Responses must be provided as attachments to an email. This RFI is not a Funding Opportunity Announcement (FOA); therefore, EERE is not accepting applications at this time. EERE may issue a FOA in the future based on or related to the content and responses to this RFI; however, EERE may also elect not to issue a FOA. There is no guarantee that a FOA will be issued as a result of this RFI. Responding to this RFI does not provide any advantage or disadvantage to potential applicants if EERE chooses to issue a FOA regarding the subject matter. Final details, including the anticipated award size, quantity, and timing of EERE funded awards, will be subject to Congressional appropriations and direction.

Document: [Request for Information \(RFI\) - Clean Water Technologies - DE-FOA-0001676](#)

- **Contact Information:** AMOCleanWater@ee.doe.gov

For all responses and questions regarding this RFI.

- EERE-ExchangeSupport@hq.doe.gov

For technical questions concerning the Exchange website.

NASA

Grant Program: ROSES 2017: New (Early Career) Investigator Program

Agency: NASA NNH17ZDA001N-NIP

Website:

<https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={344D6EF1-D56F-60FD-505E-A31035E2B19C}&path=open>

Brief Description: The New (Early Career) Investigator Program (NIP) in Earth Science is designed to support outstanding scientific research and career development of scientists and engineers at the early stage of their professional careers. The program aims to encourage innovative research initiatives and cultivate scientific leadership in Earth system science. The Earth Science Division (ESD) places particular emphasis on the investigators' ability to promote and increase the use of space-based remote sensing through the proposed research. The NIP supports all aspects of scientific and technological research aimed to advance NASA's mission in Earth system science (<http://science.nasa.gov/about-us/sciencestrategy/>). In research and analysis, the focus areas are: • Carbon Cycle and Ecosystems, • Climate Variability and Change, • Water and Energy Cycle, • Atmospheric Composition, • Weather, and • Earth Surface and Interior. In Applied Sciences, the ESD encourages efforts to discover and demonstrate practical uses of NASA Earth science data, knowledge, and technology (see <http://appliedsciences.nasa.gov>). In technological research, the ESD aims to foster the creation and infusion of new technologies into space missions in order to enable new scientific observations of the Earth system or reduce the cost of current observations (see <http://esto.nasa.gov>). The ESD also promotes innovative development in computing and information science and engineering of direct relevance to ESD. See Appendix A.1 for more detailed descriptions of the Focus Areas, themes in applied sciences, and related research topics of high priority to the ESD.

The proposed research project must be led by a single, eligible (see further description below for eligibility) investigator serving as the Principal Investigator (PI). Indeed, this individual must be the only essential team member; no Co-Investigators (Co-Is), paid or unpaid, are permitted. The NIP does not accept proposals with Co-PIs nor two types of PIs, such as Science PI and Institutional PI. Students and postdoctoral fellows may participate as paid team members. The proposed research may include collaborations. See the Guidebook for Proposers at <http://www.hq.nasa.gov/office/procurement/nraguidebook/> for the definitions of Collaborator vs. Co-Investigator and descriptions of China-related restrictions.

To be eligible for an NIP award, proposed PIs must meet the following requirements:

1. Be employed at an institution in the U.S., its territories, or possessions, or the Commonwealth of Puerto Rico, which awards a baccalaureate or advanced degree in a field supporting the objectives of NASA Earth system studies, or be employed at any nonprofit research institution or other nonprofit organization that performs a significant amount of work in fields of research supporting the objectives of NASA's Earth Science Program. Such organizations could include museums, observatories, Government or nonprofit research laboratories, as well as nonprofit entities in the private sector.
2. Be in tenure- or nontenure-track positions in either teaching or research or both, as long as the employing institution assumes the responsibility of submitting the proposal with the individual as the proposed PI.
3. Despite being more than five years beyond the receipt of their Ph.D. degrees, individuals who have interrupted their careers for reasons such as family leave or serious health problems may also be eligible. These applicants should make a written request for prior concurrence from NASA before the due date for Notices of Intent to propose. NASA will provide a written response within three weeks. Such exception is not intended for individuals who have had successful employment in technical fields in science and engineering, even though the employment is not a direct continuation of their Ph.D. research, nor is it intended for individuals with a recent Ph.D. degree after having already established a successful career in Earth system science and related disciplines.
4. Not hold or have held tenure (or equivalent) on or before the submission deadline of this program.

5. Not be a current or former recipient of the NIP or Presidential Early Career Award for Scientists and Engineers (PECASE) (see further below) award.

Awards: Proposals to the NIP are openly solicited approximately every two years. The anticipated average award is \$80-90K per year for a period of up to three years, subject to satisfactory progress and availability of funds.

Proposal Deadline: NIP17 NOIs Due: July 31, 2017

NIP17 Proposals Due: August 31, 2017

Contact: Lin Chambers

Earth Science Division

Science Mission Directorate

NASA Headquarters

Washington, DC 20546-0001

Telephone: 202-358-1667

E-mail: lin.h.chambers@nasa.gov

Grant Program: ROSES 2017: Early Stage Innovation

Agency: NASA NNH17ZOA001N-17ESI_B2

Website:

<https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId=%7B68935F1B-9778-91FC-CB89-D49868D3FC94%7D&path=init>

Brief Description: The STRG Program within STMD is fostering the development of innovative, low-TRL technologies for advanced space systems and space technology. The goal of this lowTRL endeavor is to accelerate the development of groundbreaking, high-risk/high-payoff space technologies, not necessarily directed at a specific mission, to support the future space science and exploration needs of NASA, other government agencies, and the commercial space sector. Such efforts complement the other NASA Mission Directorates' focused technology activities which typically begin at TRL 3 or higher. The starting TRL of the efforts to be funded as a result of this Appendix will be TRL 1 or TRL 2; typical end TRLs will be TRL 2 or TRL 3. See Attachment 2 of the NRA for TRL descriptions.

This Appendix seeks proposals to develop unique, disruptive, or transformational space technologies that have the potential to lead to dramatic improvements at the system level — performance, weight, cost, reliability, operational simplicity, or other figures of merit associated with space flight hardware or missions. Although progress under an award may be incremental, the projected impact at the system level must be substantial and clearly defined. This Appendix does not seek literature searches, survey activities or incremental enhancements to the current state of the art (SOA).

Awards: Various

Proposal Deadline: ESI17 NOIs Due: June 2, 2017

ESI17 Proposals Due: June 30, 2017

Contact: Claudia Meyer

Space Technology Research Grants Program Executive

Space Technology Mission Directorate, NASA Headquarters

hq-esi-call@mail.nasa.gov

National Endowment of Humanities

Grant Program: Summer Awards

Agency: National Endowment of Humanities

Website: <https://www.neh.gov/grants/research/summer-stipends>

Brief Description: Summer Stipends support individuals pursuing advanced research that is of value to humanities scholars, general audiences, or both. Eligible projects usually result in articles, monographs, books, digital materials and publications, archaeological site reports, translations, or editions. Projects must not result solely in the collection of data; instead they must also incorporate analysis and interpretation.

Summer Stipends support continuous full-time work on a humanities project for a period of two consecutive months. Summer Stipends support projects at any stage of development.

Awards: \$6,000 stipend.

Proposal Deadline: **September 27, 2017** for *Projects Beginning May 2018*

Contact: Contact NEH's Division of Research Programs at 202-606-8200 or stipends@neh.gov.

Grant Program: Research and Development Grants

Agency: National Endowment of Humanities

Website: <https://www.neh.gov/grants/preservation/research-and-development>

Brief Description: The Research and Development program supports projects that address major challenges in preserving or providing access to humanities collections and resources. These challenges include the need to find better ways to preserve materials of critical importance to the nation's cultural heritage—from fragile artifacts and manuscripts to analog recordings and digital assets subject to technological obsolescence—and to develop advanced modes of organizing, searching, discovering, and using such materials. This program recognizes that finding solutions to complex problems often requires forming interdisciplinary project teams, bringing together participants with expertise in the humanities; in preservation; and in information, computer, and natural science.

All projects must demonstrate how advances in preservation and access would benefit the cultural heritage community in supporting humanities research, teaching, or public programming.

Research and Development offers two funding tiers in order to address projects at all stages of development and implementation.

Tier I: Planning and Basic Research

Tier I grants support the following activities:

- planning and preliminary work for large-scale research and development projects; and
- stand-alone basic research projects, such as case studies, experiments, or the development of methods, models, and tools.

Tier II: Advanced Implementation

Tier II grants support projects at a more advanced stage of implementation for the following activities:

- the development of standards, practices, methodologies, or workflows for preserving and creating access to humanities collections; and
- applied research addressing preservation and access issues concerning humanities collections.

Awards: For Planning and Basic Research (Tier I) projects, the maximum award is \$75,000 for up to two years. For Advanced Implementation (Tier II) projects, the maximum award is \$350,000

for up to three years. Successful applicants will be awarded a grant in outright funds, federal matching funds, or a combination of the two, depending on the applicant's preference and the availability of NEH funds.

Proposal Deadline: June 8, 2017

Contact: Contact the staff of NEH's Division of Preservation and Access at preservation@neh.gov and 202-606-8570. Applicants who are deaf or hard of hearing can contact NEH via Federal Relay (TTY users) at 800-877-8399.

National Institute for Healthcare Management (NIHCM) Foundation

Grant Program: Research Grants

Agency: NIHCM Foundation

Website: <https://www.nihcm.org/grants/research-grants>

Brief Description: NIHCM Foundation supports innovative investigator-initiated research with high potential to inform improvements to the U.S. health care system. Projects must advance the existing knowledge base in the areas of health care financing, delivery, management and/or policy. During the first five years of the program, we have awarded \$1.3 million to support 23 studies.

Awards: The 2017-2018 round of grant making for this program is now underway. NIHCM Foundation is making approximately \$300,000 available and expects to fund 5 to 6 studies from this amount.

Proposal Deadline: Interested researchers must submit a brief letter of inquiry (LOI) outlining their study ideas by 5:00 PM EDT on July 10, 2017. Applications are welcome at any time prior to that deadline. LOIs must conform to the required structure and must be submitted using NIHCM's online entry system (see below).

- Full (10-page) proposals will be invited from a small number of applicants in August and will be due in September 2017.
- NIHCM will announce the grant winners in November 2017, for project start dates as early as January 2018.

Contact: <https://www.nihcm.org/categories/research-grants-application-information>
