NJIT Research Newsletter

Issue: ORN-2017-07

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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Save The Date!

Office of Research Events Calendar: Spring 2017

Research Showcases and Presidential Research Forums:

Event: Inauguration of NJIT Institute of Brain and Neuroscience Research
When: March 6, 2017; 10.00 AM – 2.30 PM
Where: Ballroom A/B/Atrium
Keynote Speaker: Col. Sidney Hinds, MD, DoD Brain Health Research Program Coordinator, Medical Research and Material Command

Event: Panel Discussion: NSF Proposal Preparation and Review: Intellectual Merit and Broader Impact (Details on Page 5)
When: March 7, 2017; 1.00 PM – 3.00 PM
Where: Campus Center Atrium
Panel Speakers:
Dr. Jennifer Slimowitz Pearl, Program Director, Division of Mathematical Sciences (DMS), NSF
Dr. Bernice Anderson, Senior Advisor, Office of Integrative Activities and Program Director-INCLUDES, NSF
Dr. Melvin Hall, Board Member, American Evaluation Association

Event: Faculty Research Showcase and Presidential Forum
When: March 28, 2017; 10.00 AM – 2.30 PM
Where: Ballroom A/B/Gallery
Keynote Speaker: James Gallarda, PhD, Senior Program Officer, Diagnostics at Bill & Melinda Gates Foundation

Event: Innovation Day Symposium and Presidential Forum (Student Research and Innovation Showcase)
When: April 10, 2017; 9.00 AM – 12.00 PM
Where: Ballroom A/B/Atrium
Keynote Speaker: Bill Huffnagle, President, Reconstructive Division at Stryker Orthopaedics

Event: Faculty Research Advisory Board Meeting
When: April 11, 2017; 1.00 PM – 2.00 PM
Where: Ballroom B

Event: Science and Technology Forum: Big Data Analytics: Current and Future Trends
When: April 12, 2017; 1.00 PM – 2.00 PM
Where: Ballroom B
Panel Speaker: Ms. Terry Christiani, Product Marketing Manager, Microsoft

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Grant Opportunity Alerts

Keywords and Areas Included in the Grant Opportunity Alert Section Below

NSF: Petascale Computing Resource Allocations (PRAC**);** Thermal Transport Processes; Nano-Biosensing; Tomorrow's Internet Project Office (TIPOFF) Building on the Success of the Global Environment for Network Innovations; Faculty Early Career Development Program (CAREER)
NIH: Cancer Tissue Engineering Collaborative: Enabling Biomimetic Tissue-Engineered Technologies for Cancer Research (R01); Early Phase Clinical Trials in Imaging and Image-Guided Interventions (R01); NCMRR Early Career Research Award (R03)
Department of Defense/US Army/DARPA/ONR: Distributed and Collaborative Intelligent Systems and Technology (DCIST); DoD Precision Trauma Care Research Award
Department of Energy: Stewardship Science Academic Alliances (SSAA) Program
NASA: ROSES 2017: Solar System Observations; ROSES 2017: Research Opportunities in Space and Earth Science
National Endowment of Humanities: Digital Humanities Advancement Grants ; Fellowships

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Recent Research Grant and Contract Awards

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

PI: Treena Arinzeh (PI)
Department: Biomedical Engineering
Grant/Contract Project Title: Dynamic Mechanical Tester for Piezoelectric Biomaterial Characterization
Funding Agency: Office of Naval Research
Duration: 06/01/17-05/31/18

PI: Roman Voronov (PI)
Department: Chemical, Biological and Pharmaceutical Engineering
Grant/Contract Project Title: Developing New Tissue Engineering Technology for Bone Implants
Funding Agency: Pfeiffer Research Foundation
Duration: 01/05/15-01/05/18

PI: Alexander Haimovich (PI) and Osvaldo Simeone (Co-PI)
Department: Electrical and Computer Engineering
Grant/Contract Project Title: Tactical Signals Intelligence (SIGINT) Technology
Funding Agency: DoD
Duration: 06/09/16-12/23/17

PI: Yi Chen (PI)
Department: M.T. School of Management
Grant/Contract Project Title: A Study of Patient Decision Making by Big Data Analytics
Funding Agency: The Leir Foundation and the Ridgefield Foundation
Duration: 03/01/17-02/28/19

PI: Iulian Neamtiu (PI)
Department: Computer Science
Grant/Contract Project Title: MACRO: Models for Enabling Continuous Reconfigurability of Secure Missions
Funding Agency: US Army Research
Duration: 09/20/16-09/19/18

In the News…

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

Funding Expectations with DoE: The departments of Commerce and Energy would see major reductions in funding, with programs under their jurisdiction either being eliminated or transferred to other agencies. The departments of Transportation, Justice and State would see significant cuts and program eliminations.

With OMB Director Mulvaney in place, work began on the need to deal two budgets this year--unfinished business for fiscal 2017 and the full process for fiscal 2018 looming. The present continuing resolution (CR) that runs through April 28 and another CR or spending package will be needed to keep the government open beyond that date. Action on FY18 will begin with a "skinny budget" submitted by mid-March. The White House is reportedly following closely the recommendations of the Heritage Foundation report and the House Republican Study Committee. The Heritage report recommends deep reductions in DOE programs such as nuclear physics which is viewed as appropriate for private investment. It also reduces energy related DOE programs that are thought to harbor hidden green energy subsidies. Other specific areas recommended for elimination within DOE include ARPA-E, Biological and Environmental Research, and Advanced Manufacturing Partnerships. The report also recommends elimination of programs such as The Experimental Program to Stimulate Competitive Research (EPSCoR), the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs, and the Minority Serving Intuition Partnership Program. A host of environmental programs are also identified for elimination including funding for the UN Intergovernmental Panel on Climate Change (IPCC). More Information on the website http://thehill.com/policy/finance/314991-trump-team-prepares-dramatic-cuts?utm_source=&utm_medium=email&utm_campaign=5779

NASA: Sister Solar System: NASA gained world-wide attention this week with the announcement about the discovery of a new planetary system around a dwarf star named Trappist-1, about 40 light-years, or 235 trillion miles, from Earth. The seven earth sized planets constitute an intriguing

solar system some of which may be located in the habitable zone which contains the potential for liquid water, and hence life. Discovered by a robotic telescope operating in the Chilean Atacama Desert, the system provides valuable targets that will be followed up by a variety of other present and future observing platforms such as the James Webb Space Telescope. The planetary system is aligned such that the bodies pass in front of the host star and thus their atmospheres, if they exist, can be analyzed. More information is posted on http://www.sciencealert.com/nasa-just-released-travel-posters-for-our-new-sister-solar-system-and-they-re-cool-as-hell?utm_content=bufferfdc2b&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer.

NSF Announces New Proposal & Awards Policies & Procedures Guide (PAPPG): The new NSF PAPPG provides the policies and procedures for all proposals to be submitted on or after January 30, 2017. The *Proposal & Award Policies & Procedures Guide* (PAPPG) is comprised of documents relating to the Foundation's proposal and award process for the assistance programs of NSF. The PAPPG, in conjunction with NSF's Grant General Conditions, serves as the Foundation's implementation of 2 CFR § 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*. If the PAPPG and NSF Grant Conditions are silent on a specific area covered by 2 CFR § 200, the requirements specified in 2 CFR § 200 must be followed. Please see a summary of changes and complete PAPPG 2017 document on the NSF website https://www.nsf.gov/pubs/policydocs/pappg17_1/index.jsp.

NIH Notice NOT-OD-17-003: Ruth L. Kirschstein National Research Service Awards (NRSA) Postdoctoral Stipends, Training Related Expenses, Institutional Allowance, and Tuition/Fees Effective for Fiscal Year 2017

URL https://grants.nih.gov/grants/guide/notice-files/NOT-OD-17-003.html
Related Announcements
NOT-OD-16-134
NOT-OD-16-062
National Institutes of Health (NIH)

Purpose: The purpose of this Notice is to announce the process whereby recipients of Kirschstein-NRSA institutional training grant and individual fellowship awards supporting currently active postdoctoral trainees or fellows with 0, 1, or 2 years of experience as of December 1, 2016, will received increased stipends. The Notice also provides instructions for requesting one-time supplemental funding to cover the stipend increase. As previously announced (NOT-OD-16-134), stipend levels for postdoctoral NRSA recipients with 0, 1 or 2 years of experience will be increased in furtherance of the NIH mission. This increase is distinct from a projected cost-of-living adjustment for postdoctoral stipends that is subject to the availability of FY 2017 appropriations.

Webinar and Events

Event: NJIT Panel Discussion: Understanding the Role of Evaluation in NSF Proposal Preparation: Broader Impacts, Broader Impacts & Participation for Underrepresented Minorities
When: March 7, 2017, 1.00 PM-2:30 PM
Where: NJIT Campus Center Atrium Newark (also streamed via YouTube live)
Brief Description of the Panel: We are pleased to announce a Panel Discussion event, *Understanding the Role of Evaluation in NSF Proposal Preparation,* sponsored by the Office of Research and Collaborative for Leadership, Education, and Assessment Research (CLEAR)

initiative at NJIT. This panel will focus on NSF proposal preparation with respect critical review criteria including boarder impact, intellectual merit and broader participation of women and underrepresented minorities in STEM.

Panel Moderator: Dr. Kevin Belfield, Dean, College of Science and Liberal Arts, NJIT

Panel Speakers:

Dr. Jennifer Slimowitz Pearl, Program Director, Division of Mathematical Sciences (DMS), National Science Foundation

Dr. Bernice Anderson, Senior Advisor, Office of Integrative Activities and Program Director-INCLUDES, National Science Foundation

Dr. Melvin Hall, Board Member, American Evaluation Association

Panel Speaker: Dr. Bernice Anderson

Title of the Talk: "Broader Participation: The NSF initiative to Include Everyone"

This presentation will set the stage by beginning the panel with a discussion of the movement toward broader participation in STEM (especially for women and underrepresented minorities) and how it relates to the new priorities in Broader Impacts.

Speaker Biographical Sketch: Dr. Bernice Anderson is the Executive secretary of the Committee on Equal Opportunities in Science and Engineering (CEOSE) and a Senior Advisor of the NSF Office of Integrative Activities.

Panel Speaker: Dr. Melvin E. Hall

Title of the Talk: "Thinking Evaluatively About Broader Impact and Broadening Participation in STEM: Towards What End?"

This presentation will focus thinking on an outcome goal for broadening participation. In essence to help address the "why" and "so what" questions that may be lurking in the minds of faculty and others who are designing projects that include these expectations. If successful I will plant a seed prompting individual investigators to envision what comes after these efforts are successful.

Speaker Biographical Sketch: Dr. Hall is Professor of Educational Psychology at Northern Arizona University. Dr. Hall completed his B.S., and Ph.D., degrees at the University of Illinois at Urbana Champaign in Social Psychology and Educational Psychology respectively; and M.S. in Counseling at Northern Illinois University. During a forty plus-year professional career in higher education, Dr. Hall has served in four successive appointments, as an academic dean, comprised of positions at Florida Atlantic University, University of California-Irvine, University of Maryland at College Park, and most recently Northern Arizona University (NAU).

Panel Speaker: Dr. Jennifer Slimowitz Pearl

Title of the Talk: "Insights into NSF Broader Impacts By a Program Officer"

Dr. Pearl will discuss how panels view broader impacts and provide examples of broader impacts in successful grants from the perspective of an NSF program director.

Speaker Biographical Sketch: Dr. Pearl is a Program Director in the Division of Mathematical Sciences (DMS) at NSF. Among her responsibilities are the DMS Infrastructure program and activities in the DMS Workforce portfolio. She recently completed a detail assignment serving as the Acting Deputy Division Director in DMS. She also recently served as a Visiting Provost Fellow at George Mason University. She was formerly a Program Director in NSF's Office of International Science and Engineering. Dr. Pearl has held positions at the National Academies and at Rice University. She was an AAAS/NSF Science and Technology Policy Fellow and was awarded a NSF/NATO Postdoctoral Fellowship to conduct research at the Université du Québec à Montréal.

Event: NSF Webinar: Introduction to I-Corps Teams
When: March 7, 2017; 2.00 PM – 4.00 PM
Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=189701&org=NSF
Brief Description: Abstract: Curious about the NSF I-Corps program? Join this monthly introductory webinar to learn more about I-Corps Teams and how they contribute to the innovation ecosystem. During the webinar, I-Corps program directors will answer questions about I-Corps and provide updated information about I-Corps contacts, the curriculum, important dates and other aspects of I-Corps. The I-Corps curriculum provides real-world, hands-on, immersive learning about what it takes to successfully transfer knowledge into products and processes that benefit society.
The webinar will be held the **first Tuesday of every month at 2:00 p.m., eastern time**.
To Join the Webinar: First, access the audio portion of the webinar by phone by calling (800) 857-5210 (for callers inside the U.S.) OR (210) 234-7080 (for callers outside the U.S.). The participant passcode is 3192939#
Second, access the visual portion of the webinar (WebEx meeting number 743 582 265):

- Go to https://nsf.webex.com/nsf/j.php?MTID=m37c931eeb5d7a1c32e62c41975c03a2b [Note: Firefox is recommended for Mac users.]
- If requested, enter your name and email address.
- If a password is required, enter the meeting password: I_C0rp5!
- Click "Join".

You may download the slides in advance--download the slides (PDF, 1.6 MB).
For assistance joining the meeting, go to https://nsf.webex.com/nsf/mc and click "Support" on the left navigation bar.
Note for first-time users: To check whether you have the appropriate players installed for UCF (Universal Communications Format) rich media files, go to https://nsf.webex.com/nsf/systemdiagnosis.php.

Grant Opportunities

National Science Foundation

Grant Program: Petascale Computing Resource Allocations (PRAC)
Agency: National Science Foundation NSF 17-542
RFP Website: https://www.nsf.gov/pubs/2017/nsf17542/nsf17542.htm
Brief Description: In 2013, a new NSF-funded petascale computing system, Blue Waters, was deployed at the University of Illinois at Urbana-Champaign. The goal of this project and system is to open up new possibilities in science and engineering by providing computational capability that makes it possible for investigators to tackle much larger and more complex research challenges across a wide spectrum of domains. The purpose of this solicitation is to invite research groups to submit requests for allocations of resources on the Blue Waters system. Proposers must show compelling science or engineering challenges that require petascale computing resources. Proposers must also be prepared to demonstrate that they have science or engineering research problems that require and can effectively exploit the petascale computing capabilities offered by Blue Waters. Proposals from or including junior researchers are encouraged, as one of the goals of this solicitation is to build a community capable of using petascale computing.

Awards: Standard Grants of about $15,000 each. Anticipated funding amount: $180,000 - $225,000
Letter of Intent: Not Required
Full Proposal Submission Due Date: November 06, 2017
Contacts:

- Edward Walker,CISE/OAC, telephone: (703) 292-4863, email: edwalker@nsf.gov

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Grant Program: Thermal Transport Processes
Agency: National Science Foundation NSF PD 17-1406
RFP Website:
https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505328&org=NSF&sel_org=NSF&from=fund
Brief Description: The **Thermal Transport Processes** program is part of the **Transport Phenomena** cluster, which includes also 1) Combustion and Fire Systems; 2) Fluid Dynamics; and 3) Particulate and Multiphase Processes.

The **Thermal Transport Processes (TTP)** program supports engineering research projects that lay the foundation for new discoveries in thermal transport phenomena. These projects should either develop new fundamental knowledge or combine existing knowledge in thermodynamics, fluid mechanics, and heat and mass transfer to probe new areas of innovation. The program seeks transformative projects with the potential for improving our basic understanding, predictability and application of thermal transport processes. Projects should articulate the contribution(s) to the fundamental knowledge supporting thermal transport processes and state clearly the potential application(s) impact when appropriate. Projects that combine analytical, experimental and numerical efforts, geared toward understanding, modeling and predicting thermal phenomena, are of great interest. Collaborative and interdisciplinary proposals for which the main contribution is in thermal transport processes fundamentals are also encouraged. Priority is given to insightful investigations of fundamental problems with clearly defined economic, environmental and societal impacts.
Awards: CBET program mechanisms: CAREER, RAPID and Conference/Workshop
Letter of Intent: Not Required
Full Proposal Submission Due Date: October 1, 2017 - October 20, 2017
Contacts: José Lage jlage@nsf.gov (703) 292-4997

Grant Program: Nano-Biosensing
Agency: National Science Foundation NSF PD 17-7909
RFP Website:
https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505340&org=NSF&sel_org=NSF&from=fund
Brief Description: The **Nano-Biosensing** program is part of the Engineering Biology and Health cluster, which includes also 1) Cellular and Biochemical Engineering; 2) Engineering of Biomedical Systems; 3) Biophotonics; and 4) Disability and Rehabilitation Engineering. The **Nano-Biosensing** program supports fundamental engineering research on devices and methods for measurement and quantification of biological analytes. Proposals that incorporate emerging nanotechnology methods are especially encouraged. Areas of interest include:

- Multi-purpose sensor platforms that exceed the performance of current state-of-the-art devices.

- Novel transduction principles, mechanisms and sensor designs suitable for measurement in practical matrix and sample-preparation-free approaches. These include error-free detection of pathogens and toxins in food matrices, waterborne pathogens, parasites, toxins, biomarkers in body fluids, and others that improve human condition.
- Nano-biosensors that enable measurement of biomolecular interactions in their native states, transmembrane transport, intracellular transport and reactions, and other biological phenomena.
- Studies that examine intracellular measurements must include discussion on the significance of the measurement.

Proposals should clearly identify the proposed problem to be solved, describe why the proposed approach is superior to current available methods, and articulate the benefit of solving the identified problem for the society at large. Sensor designs that yield reliable measurements are encouraged. While sensitivity is important, it cannot be at the expense of reproducibility. Every application must include research strategies for addressing reproducibility of measurement and sensor response, as well as approaches that reduce errors. The program does not support applications with incremental improvements of existing approaches and technologies. Projects that do not include experimental characterization of sensor responses to biological analytes are discouraged, and may be returned without a review. Studies on surface functionalization and immobilization of bio-recognition molecules, and/or orientation of them are not encouraged. Research that is focused on new recognition chemistry is also discouraged. The novelty or potentially transformative nature of the research must be included in the Project Summary. The last line in Project Summary must include three key phrases that describe: (1) sensor transduction principles, (2) type of biological analytes, (3) potential application areas.

Awards: CBET program mechanisms: CAREER, RAPID and Conference/Workshop

Letter of Intent: Not Required

Full Proposal Submission Due Date: October 1, 2017 - October 20, 2017

Contacts: Rajakkannu Mutharasan rmuthara@nsf.gov (703) 292-4608

Grant Program: Tomorrow's Internet Project Office (TIPOFF) Building on the Success of the Global Environment for Network Innovations

Agency: National Science Foundation NSF 17-540

RFP Website: https://www.nsf.gov/pubs/2017/nsf17540/nsf17540.htm

Brief Description: In order to leverage, advance and strengthen its investments in mid-scale computing research infrastructure, the National Science Foundation's (NSF) Directorate for Computer and Information Science and Engineering (CISE) will support the work of ***Tomorrow's Internet Project Office*** **(TIPOFF)**. Working closely with the U.S. academic and industrial computer networking research community, TIPOFF will provide leadership and administrative oversight in developing, deploying and operating innovative mid-scale computing research infrastructure to meet evolving research community needs and align with emerging national priorities.

To initiate this activity, TIPOFF will assume responsibility for the operation and future evolution of the Global Environment for Network Innovations (GENI) platform. TIPOFF will then lead the research community in developing an expanded and enriched experimental platform ("Platform") that leverages the existing GENI infrastructure to support exploration of robust new networking and distributed systems architectures, services and applications. This Platform will serve as a virtual laboratory for research and education, with the goal of advancing understanding of computing and communication systems and sustaining U.S. technology leadership and competitiveness in information technology (IT) and Internet-based services.

Limit on Number of Proposals per Organization: 1: An organization may participate in no more than one TIPOFF proposal submitted to this solicitation, either as a lead or a subawardee. For proposals involving multiple institutions, only one institution should submit the proposal, with funding for participating institutions made through subawards. In other words, joint projects should not be submitted as linked collaborative proposals. See PAPPG Chapter II.D.3.a for additional information.
Awards: Anticipated funding amount: $10,000,000
Letter of Intent: Not Required
Full Proposal Submission Due Date: May 02, 2017
Contacts:

- Jack Brassil, Program Director, CISE/CNS, telephone: (703) 292-8950, email: jbrassil@nsf.govKevin Thompson, Program Director, CISE/ACI, telephone: (703) 292-4220, email: kthompso@nsf.gov

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Grant Program: Faculty Early Career Development Program (CAREER) Includes the description of NSF Presidential Early Career Awards for Scientists and Engineers (PECASE)
Agency: National Science Foundation NSF 17-537
RFP Website: https://www.nsf.gov/pubs/2017/nsf17537/nsf17537.htm
Brief Description: *CAREER*: The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. Activities pursued by early-career faculty should build a firm foundation for a lifetime of leadership in integrating education and research. NSF encourages submission of CAREER proposals from early-career faculty at all CAREER-eligible organizations and especially encourages women, members of underrepresented minority groups, and persons with disabilities to apply.

PECASE: Each year NSF selects nominees for the Presidential Early Career Awards for Scientists and Engineers (PECASE) from among the most meritorious recent CAREER awardees. Selection for this award is based on two important criteria: 1) innovative research at the frontiers of science and technology that is relevant to the mission of NSF, and 2) community service demonstrated through scientific leadership, education, or community outreach. These awards foster innovative developments in science and technology, increase awareness of careers in science and engineering, give recognition to the scientific missions of the participating agencies, enhance connections between fundamental research and national goals, and highlight the importance of science and technology for the Nation's future. Individuals cannot apply for PECASE. These awards are initiated by the participating federal agencies. At NSF, up to twenty nominees for this award are selected each year from among the PECASE-eligible CAREER awardees most likely to become the leaders of academic research and education in the twenty-first century. The White House Office of Science and Technology Policy makes the final selection and announcement of the awardees.
Awards: Standard Grants. Anticipated funding amount: $222,000,000
Letter of Intent: Not Required
Full Proposal Submission Due Date:
July 19, 2017
Third Wednesday in July, Annually Thereafter
BIO, CISE, EHR
July 20, 2017
Third Thursday in July, Annually Thereafter

ENG
July 21, 2017
Third Friday in July, Annually Thereafter
GEO, MPS, SBE
Contacts:

- Division CAREER contacts listed on the CAREER web page at: http://www.nsf.gov/crssprgm/career/contacts.jsp
- Henry A. Warchall, telephone: (703) 292-4861, email: hwarchal@nsf.gov
- See Contacts listing, NSF, telephone: (703) 292-5111, email: info@nsf.gov

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National Institutes of Health

Grant Program: Cancer Tissue Engineering Collaborative: Enabling Biomimetic Tissue-Engineered Technologies for Cancer Research (R01)
Agency: National Institutes of Health PAR-17-171
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PAR-17-171.html
Brief Description: Biomimetic tissue-engineered technologies offer great precision and control of their physical and spatial parameters and components. These technologies bridge the discontinuity in cancer research models between two-dimensional (2D) and three-dimensional (3D) spheroid or cell-laden extracellular matrix in vitro systems and in vivo animal models. Limits exist in the types of biological questions that can be answered with 2D and 3D systems due to the inability to replicate tissue-specific pathophysiology. On the other hand, limitations of in vivo animal models include costly assays and the challenge of precisely controlling experimental variables of the tumor microenvironment, such as spatial, molecular, and physical information. To address these limitations of conventional in vitro systems and in vivo animal models, well-characterized tissue-engineered in vitro systems that incorporate tissue pathology and physiology are needed within the cancer model continuum.

This FOA will support the development and characterization of state-of-the-art biomimetic tissue-engineered technologies for cancer research. *Critical to this FOA will be characterizing the biological relevance of the tissue-engineered technologies.* Applicants will be expected to take a novel engineering approach to define the critical features and parameters for the proposed system, how they are sufficient to mimic the physiology and pathology of the specific cancer question under study, and what characterization will be needed to validate the biological relevance of the system. Characterization could include the demonstration of relevant tissue structure, tumor biology, pathology, and physiological function that replicate the aspect of tumor biology that will be studied using the proposed system. The long-term goal is that the technologies might begin to have novel applications addressing questions in cancer biology, prevention, early detection of aggressive cancer, diagnosis and therapy.

Possible research areas of emphasis include the development and characterization of tissue-engineered biomimetic technologies, such as the following:

- Engineered native and/or synthetic scaffolds (e.g., hydrogels, nanofibers, 3D printing, decellularized matrix), bioreactors, and microfluidic devices to better understand the role of the structure and spatial organization in cancer initiation, progression, and treatment. The biomimetic systems could incorporate functionalized biomaterials that mimic tumor properties and are designed to probe cellular behaviors such as crowding, coupled interactions and/or cooperativity, and autocrine/paracrine behaviors at the molecular and cellular length scales.

- Cellular, mechanical, and secreted chemical factors of the tumor microenvironment such as stromal cells, exosomes, immune components, gradients of cytokines, growth factors and hormones, oxygen tension, pH, and extracellular matrix structure.
- Perfusion, lymphatics, interstitial pressure, passive flow, or immobile and soluble gradients to study the role of tumor physiology and immune responses on cancer biology, diagnosis, and treatment. Molecular probes could be incorporated to obtain quantitative and dynamic functional measurements.
- Technologies to facilitate measurements of bi-directional signaling, stresses, and dynamics of complex tumor systems, such as responsive materials, molecular probes, or genome editing tools that can be regulated or monitored with minimal invasiveness. Integration of advanced imaging modalities could allow visualization of dynamic cell and tissue processes across space and time.
- Engineered tissues capable of long-term culture to examine cancer initiation and dormancy over several weeks.
- Coupling with computational models to understand the emergence of tumor form, function, and heterogeneity from genetic or spatial information.
- Multi-organ engineered culture systems to probe organ-to-organ interactions during cancer progression and treatment.
- Systems to model cancer progression from pre-neoplastic lesions to invasive and metastatic disease; to develop biomimetic systems amenable to imaging for early detection of aggressive cancer, diagnosis and prognosis; and to select preventive and therapeutic agents.

Awards: Budgets are limited to $400,000 Direct Costs per year. Application budgets should reflect the actual needs of the proposed project.
Letter of Intent: 30 days before the application due date.
Deadline: Standard dates apply, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.
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: Early Phase Clinical Trials in Imaging and Image-Guided Interventions (R01)
Agency: National Institutes of Health PAR-17-167
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PAR-17-167.html
Brief Description: NCI has invested significant resources in imaging, both to understand cancer biology and to improve clinical management of cancer patients. This investment has stimulated considerable research activity in the fields of new imaging devices, imaging agent development, and image-guided intervention (IGI), systems, methodologies, and therapies. For example, investigators are developing interleukin-2 radiopharmaceuticals known to detect organ infiltrating T cells in human autoimmune diseases, a new PET imaging diagnostic assay to evaluate how well Sarcoma/Abelson tyrosine kinase inhibitors target tumors inside patients, and leveraging sophisticated computer vision, image analysis, computer assisted diagnostic and deformable registration tools to improve the delineation of tumors for targeted laser ablation therapy via multi-parametric MRI. In addition, researchers are also focused on novel uses of clinical imaging technologies to meet the needs of medical oncologists. Molecular and functional imaging methods, for instance, are being investigated to provide clinicians with a better understanding of the effects of a given treatment and at time-points early enough to impact treatment selection and overall management. This early understanding of the effects of a given

therapy or intervention could potentially allow clinicians to switch to more effective treatments saving patients from untoward side effects or death, saving both lives and resources. Today, there are many new approaches in cancer imaging and IGI at the preclinical stage of development that need to be optimized and validated in a clinical setting to determine their impact upon tumor diagnosis, staging, intervention, therapeutic response monitoring, and surveillance. These preliminary clinical studies would serve a number of societal interests in improved cancer care in the general population as well as better serving underserved populations. Despite these discoveries and opportunities, the incorporation of advanced imaging and IGI techniques into clinical trials remains difficult, not in-pace with clinical need, and under supported. Therefore, the purpose of this initiative is to promote the use of advanced imaging and provide the necessary support for the assessment of imaging modalities, methodologies, and agents as well as IGI methods through the early stages of clinical evaluation in both the general and underserved populations.

The goal of this FOA is to promote and accelerate clinical evaluation of imaging modalities, agents, methods, and image-guided interventions to improve cancer management. Therefore, projects that propose Phase I or early Phase II studies of imaging agents and methodologies, or feasibility studies of imaging devices, image-guided surgery or therapies, image-guided radiation therapy using external beams and/or systemic radionuclides, should show that the anticipated preliminary data will be able to justify a future grant application for confirmatory Phase II or Phase III trial. A range of trials at different stages of development are allowed, including first in human Phase I and II single-site or multi-site studies based on conventional or adaptive trial designs (if economically feasible). The early studies should provide important initial information regarding imaging investigations (e.g. safety, tolerability, dosing). Later-stage studies should yield data that allow clear go/no-go decisions regarding whether these imaging investigations or image-guided interventions should proceed to an efficacy trial. Applicants may, for example, propose to conduct a clinical trial where the primary aim is to:

- Evaluate and optimize the dose, safety, tolerability or pharmacokinetics of an imaging agent or intervention in a target population.
- Produce sufficient evidence of short-term activity (e.g., imaging biomarker activity, pharmacodynamic response, target engagement, dose-response trends) in a human proof of concept trial.
- Select or rank the best of two or more potential imaging interventions, technologies, or dosing regimens to be evaluated in a subsequent trial, based on tolerability, safety data, biological activity, or preliminary clinical efficacy (e.g., a futility trial.)
- Conduct exploratory IND studies with less preclinical toxicity data or less micro-dosing of investigational agents than usually required for traditional first in human studies to improve the trial design and efficiency in subsequent trials. See FDA's website for information regarding FDA's Exploratory IND Guidance document.

Awards: Application budget should reflect the actual needs of the proposed project and is limited to $500,000 in direct costs for the total project period. No more than $250,000 in direct costs may be requested in any single year.

Letter of Intent: 30 days before the application due date.

Deadline: June 28, 2017; October 11, 2017; February 14, 2018, June 28, 2018; October 11, 2018; February 14, 2019; June 28, 2019; October 11, 2019; February 14, 2020, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.

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: NCMRR Early Career Research Award (R03)
Agency: National Institutes of Health PAR-17-161
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PAR-17-161.html
Brief Description: The NCMRR Early Career Research (ECR) Award is different from other NIH R03 programs, including the Parent Announcement. It is restricted to clinical and basic scientists who are in the early stages of their independent career in rehabilitation research. The research should be focused on one or more of the areas within the biomedical and behavioral mission of NCMRR: pathophysiology and management of chronically injured nervous and musculoskeletal systems; repair and recovery of motor and cognitive function; functional plasticity, adaptation, and windows of opportunity for rehabilitation interventions; rehabilitative strategies involving pharmaceutical, stimulation, neuroengineering approaches, exercise, motor training, and behavioral modifications; pediatric rehabilitation; secondary conditions associated with chronic disabilities; improved diagnosis, assessment, and outcome measures; and development of orthotics, prosthetics, and other assistive technologies and devices. The expected outcome from projects funded under this mechanism is the acquisition of necessary preliminary data for a subsequent research project grant (R01) application.

The proposed project may or may not be hypothesis-driven since the goal is to collect the necessary preliminary data sufficient to apply for an R01 grant. The project may aid in the formulation of hypotheses and may be milestone-driven or descriptive in scope. Given that the goal is to collect preliminary data, R03 projects may be less immediately impactful or significant compared to the typical R01. It is not an expectation that this R03 project will likely "move the field forward" at this stage.

Preliminary data are not required. However, the applicant PD/PI should have sufficient information to give confidence to the reviewers that the proposed work is feasible and that data derived from the project would likely be suitable as preliminary data for a subsequent R01 application.
Awards: The combined budget for direct costs for the entire project period may not exceed $200,000. No more than $100,000 in direct costs may be requested in any single year.
Letter of Intent: Not required.
Deadline: April 21, 2017, March 30, 2018, March 29, 2019, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.
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: Distributed and Collaborative Intelligent Systems and Technology (DCIST)
Agency: US Army Research Laboratory W911NF-17-S-0004
Website: https://www.arl.army.mil/www/default.cfm?page=3049
Brief Description: Army Operating Concepts and roadmaps to 2040 and beyond envision integrating intelligent systems as force multipliers for improving the effectiveness and reach of Soldiers in complex military relevant environments. Recent Army studies have identified that intelligent systems have the potential to deliver significant military value, including opportunities to reduce the number of warfighters in harm's way, increase the quality and speed of decision making in time-critical operations, and enable new missions that would otherwise be impossible. Over the last ten years, the ARL has established an Enterprise approach to intelligent systems that

couples multi-disciplinary internal research, analysis, and operations with extramural research and collaborative ventures through programs such as the Robotics Collaborative Technology Alliance (CTA), the Micro Autonomous Systems and Technology CTA, and Multidisciplinary University Research Initiatives. The vision of the Enterprise has been to make unmanned systems an integral part of the small unit team and to develop systems that: understand the environment; learn from experience; adapt to dynamic situations; possess a common world view; communicate naturally; conduct useful activity; and can act independently, but within well prescribed bounds. ARL has also been working to scale intelligent systems down in size and enable collaborative systems for realizable dismounted Soldier Intelligence, Surveillance, and Reconnaissance (ISR) assets.In extending this vision to 2040 and beyond, it is also envisioned that future intelligent systems will need to exhibit adaptable levels of autonomy and work across large heterogeneous teams of intelligent agents and Soldiers. Teams are expected to have the ability to perceive and learn across highly distributed components, work in complex and contested environments, and assist in making rapid decisions in the presence of large amounts of data. The Intelligent Systems vision addressed by this PA is one that integrates, potentially large numbers of heterogeneous physical agents and Soldiers in the command structure as well as sensor nodes within the collective; that can access data from external sources such as distributed unattended sensors and information from knowledge bases; that can fuse information from these external sources with the distributed and heterogeneous perception abilities of the collaborative team to form and then distribute a collective situational awareness as needed and appropriate; and can then use the distributed and heterogeneous processing and intelligence capability of the team to make rapid, and potentially joint, decisions (both locally and globally) to optimize and adapt missions in the face of complex environments, unexpected events, and adversarial actions. Some basic assumptions are that the system will include:• Large numbers of agents – tens to swarms• Heterogeneous mix – air/ground, large/small, manned/unmanned, fast/slow, varying levels of cognition, Soldiers in the command structure as well as sensor nodes within the team, smart sensors, and knowledge sources • Highly distributed deployment over large areas• Operations in complex, dynamic, varying, and contested environments• Rapid Operational Tempo to include potential for some components operating at faster than human tempo and decision making speeds This vision for a highly distributed and collaborative approach for future intelligent systems will lead to extended reach, situational awareness, and operational effectiveness against dynamic threats in contested environments and technical and operational superiority through intelligent, resilient and collaborative behaviors. While it is important to develop component technologies, this vision is not about a singular technology or system but rather how to integrate varying levels of autonomy and intelligence with the Soldier across spatially and temporally distributed singular systems, small teams, and even swarm behavior all under one command and control architecture. And, in doing so, augment the capability of the collective well beyond that of any one component within the collective to address the Army challenge of high tempo operation in complex, contested, and unknown environments with little or no supporting infrastructure.

Awards: Various

Full Proposal Deadline:

- **Whitepapers due:**
  - 4:00 p.m. EDT, Friday, April 28, 2017
- **2017 Deadline for Questions on PA** - 1 April 2017
- **RSVP deadline** - Noon Eastern Standard Time 28 Feb 2017

Contact Information: OFFSET@darpa.mil

Grant Program: DoD Precision Trauma Care Research Award
Agency: Department of Defense USAMRAA W81XWH-18-DMRDP-PTCRA
Website: http://open-grants.insidegov.com/l/48322/DoD-Precision-Trauma-Care-Research-Award-W81XWH-18-DMRDP-PTCRA
Brief Description: In support of the Precision Medicine Initiative1, the OASD(HA) identified "precision medicine" as a top science and technical priority for the FY17 DHP RDT&E funds (this is also applicable to FY18 DHP RDT&E funds) and directed DHA to increase the use of "big data" and interdisciplinary approaches, establish a fundamental understanding of military disease and injury, and advance health status assessment, diagnosis, and treatment tailored to individual Service members and beneficiaries. For this Program Announcement/Funding Opportunity, precision medicine is defined as "an emerging approach for disease treatment and prevention that takes into account individual variability in genes, environment, and lifestyle for each person."2 Precision medicine pioneers a new model of patient-powered research that aims to accelerate biomedical discoveries and provide clinicians with new tools, knowledge, and approaches to select more accurate treatment and prevention strategies that will work best for individual patients. The intent of the Precision Trauma Care Research Award (PTCRA) is to support research applying precision medicine concepts to trauma care. In order to improve the care of combat casualties, the JPC-6/CCCRP requires capabilities to more accurately diagnose and treat injuries. In general, the field of trauma care progresses as empirical evidence accumulates. Accumulated evidence supports the reduction of unwarranted practice variability (e.g., protocol-driven care). Reduction in practice variability leads to refinement of protocols through improved diagnostic and prognostic indicators that account for patient-specific variables such as injury pattern, co-morbidities, demographics, and morphometric data. These approaches are further refined by incorporation of near-term patient-specific variables such as injury progression, response to interventions, and theranostic indicators. The result is a precision medicine approach for trauma care that drives application of interventions to improve outcomes following trauma. The JPC-6/CCCRP seeks to develop precision medicine approaches for trauma care in the most challenging of environments, including point-of-injury care on the battlefield, deployed healthcare facilities such as casualty collection points, forward surgical teams, and combat support hospitals. This challenge of diverse combat environments and medical capabilities also requires research to develop new solutions to include support for medical providers in the assessment, diagnosis, and treatment of military trauma in out-of-hospital settings (point of injury, austere environment, or en route care) with limited resources through Role 4.3 Proposed research should consider the entire continuum of trauma care and must be focused on enabling patient-specific interventions and improved outcomes rather than "one size fits all" population-based tools and techniques.
Awards: Various; Estimated Funding Available: $4,870,000
Department of the Army - USAMRAA posted this science and technology and other R&D cooperative agreement on February 10, 2017. Department of the Army - USAMRAA is awarding 6 cooperative agreements with an estimated funding amount of $29,200,000 total for DoD Precision Trauma Care Research Award.
Full Proposal Deadline: Applications for this cooperative agreement are due June 15, 2017.
Contact Information: CDMRP Help Desk; Phone: 301-682-5507 Email: help@eBRAP.org

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Department of Energy

Grant Program: Stewardship Science Academic Alliances (SSAA) Program
Agency: Department of Energy Advanced Research Projects Agency Energy

DE-FOA-0001634
Website: http://open-grants.insidegov.com/l/48138/Stewardship-Science-Academic-Alliances-SSAA-Program-DE-FOA-0001634
Brief Description: The Stewardship Science Academic Alliances (SSAA) Program was established in 2002 to support state-of-the-art research at U.S. academic institutions in areas of fundamental physical science and technology of relevance to the SSP mission. The SSAA Program provides the research experience necessary to maintain a cadre of trained scientists at U.S. universities to meet the nation's current and future SSP needs, with a focus on those areas not supported by other federal agencies. It supports the DOE/NNSA's priorities both to address the workforce specific needs in science, technology, engineering, and mathematics and to support the next generation of professionals who will meet those needs.
Awards: Awards may vary between $1 to $3 million. Approximately $18 million available in total funds.
Deadline: Apr 30, 2017 Applications should be received by April 30, 2017 and not later than 23:59 ET in Grants.gov.
Contact Information: Grants Management Specialist Patricia M. Parrish 505-845-4057 Patricia.Parrish@nnsa.doe.gov

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NASA

Grant Program: ROSES 2017: Solar System Observations
Agency: NASA NNH17ZDA001N-SSO
Website:
https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={EB1C8483-5EDC-D02D-6D89-8007A7BD7072}&path=open
Brief Description: This ROSES NRA (NNH17ZDA001N) solicits basic and applied research in support of NASA's Science Mission Directorate (SMD). The NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, scientific balloon, sounding rocket, International Space Station, CubeSat and suborbital reusable launch vehicle investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under $100K per year for focused, limited efforts (e.g., data analysis) to more than $1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in ROSES-2017 range from less than one to several million dollars, which allows for selection from a few to as many as several dozen proposals, depending upon the program objectives and the submission of proposals of merit. Awards will be made as grants, cooperative agreements, contracts, and inter- or intraagency transfers, depending on the nature of the proposed work and/or program requirements. The typical period of performance for an award is four years, although a few programs may specify shorter or longer (maximum of five years)

periods. Organizations of every type, domestic and foreign, Government and private, for profit and not-for-profit, may submit proposals without restriction on the number or teaming arrangements. Note that it is NASA policy that all investigations involving non-U.S. organizations will be conducted on the basis of no exchange of funds. Electronic submission of proposals is required by the respective due dates for each program element and must be submitted by an authorized official of the proposing organization. Electronic proposals may be submitted via the NASA proposal data system NSPIRES or via Grants.gov. Every organization that intends to submit a proposal in response to ROSES-2017 must be registered with NSPIRES; organizations that intend to submit proposals via Grants.gov must be registered with Grants.gov, in addition to being registered with NSPIRES. Such registration must identify the authorized organizational representative(s) (AOR) who will submit the electronic proposal. All Principal Investigators (PIs) and other participants e.g., Co-Investigators (Co-Is) must be registered in NSPIRES regardless of the submission system. Potential proposers and proposing organizations are urged to access the system(s) well in advance of the proposal due date(s) of interest to familiarize themselves with its structure and to enter the requested information. Details of the solicited programs will be in the Appendices of ROSES-2017. Names, due dates, and links for the individual calls will appear in Tables 2 and 3 of this ROSES-2017 NRA. Interested proposers should monitor http://nspires.nasaprs.com/ or subscribe to the electronic notification system there for additional new programs or amendments to ROSES-2017 through February 2018, at which time release of a subsequent ROSES NRA is planned. A web archive (and RSS feed) for amendments, clarifications, and corrections to ROSES-2017 will be available at: http://science.nasa.gov/researchers/sara/grant-solicitations/roses-2017/ Frequently asked questions about ROSES-2017 will be posted at http://science.nasa.gov/researchers/sara/faqs/. Further information about specific program elements may be obtained, after the release of ROSES-2017, from the individual Program Officers listed in the Summary of Key Information for each program element in the Appendices of ROSES-2017 and at http://science.nasa.gov/researchers/sara/program-officers-list/ .
Awards: Various.
Step-1 Proposal: Contact Program Officer
Full Proposal Deadline: SSO17 Step-1 Proposals Due Apr 06, 2017
Contact: Questions concerning general ROSES-2017 policies and procedures may be directed to Max Bernstein, Lead for Research, Science Mission Directorate, at sara@nasa.gov .

Grant Program: ROSES 2017: Research Opportunities in Space and Earth Science
Agency: NASA NNH17ZDA001N
Website:
https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId=%7BE757EF32-60E6-76AE-A276-21A1F8BA96BB%7D&path=open
Brief Description: This ROSES NRA (NNH17ZDA001N) solicits basic and applied research in support of NASA's Science Mission Directorate (SMD). The NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, scientific balloon, sounding rocket, International Space Station, CubeSat and suborbital reusable launch vehicle investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and

composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Solicitation website https://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=554057/solicitationId=%7BE757EF32-60E6-76AE-A276-21A1F8BA96BB%7D/viewSolicitationDocument=1/ROSES%202017%20SoS.pdf
Awards: Awards range from under $100K per year for focused, limited efforts (e.g., data analysis) to more than $1M per year for extensive activities (e.g., development of specialized science experimental hardware).
Letter of Intent: Contact Program Officer
Full Proposal Deadline: May 15, 2017 to June 01, 2018
Contact: Tsengdar J. Lee, Earth Science Division, Science Mission Directorate, NASA Headquarters, Washington, DC 20546-0001, E-mail: Tsengdar.J.Lee@nasa.gov , Telephone: 202-358-0860

National Endowment of Humanities

Grant Program: Digital Humanities Advancement Grants
Agency: National Endowment of Humanities
Website: https://www.neh.gov/grants/odh/digital-humanities-advancement-grants
Brief Description: Digital Humanities Advancement Grants (DHAG) support digital projects throughout their lifecycles, from early start-up phases through implementation and long-term sustainability. Experimentation, reuse, and extensibility are hallmarks of this grant category, leading to innovative work that can scale to enhance research, teaching, and public programming in the humanities.
This program combines the former Digital Humanities Start-Up Grants and Digital Humanities Implementation Grants programs; the combined program is offered twice per year. Proposals are welcome for digital initiatives in any area of the humanities.
Through a special partnership, the Institute of Museum and Library Services (IMLS) anticipates providing additional funding to this program to encourage innovative collaborations between museum or library professionals and humanities professionals to advance preservation of, access to, use of, and engagement with digital collections and services. Through this partnership, IMLS and NEH may jointly fund some DHAG projects that involve collaborations with museums and/or libraries.
Digital Humanities Advancement Grants may involve

- creating or enhancing experimental, computationally-based methods or techniques that contribute to the humanities;
- pursuing scholarship that examines the history, criticism, and philosophy of digital culture and its impact on society, or explores the philosophical or practical implications and impact of digital humanities in specific fields or disciplines; or
- revitalizing and/or recovering existing digital projects that promise to contribute substantively to scholarship, teaching, or public knowledge of the humanities.

Awards: Awards up to $375,000.
Proposal Deadline: June 06, 2017
Contact: Contact the Office of Digital Humanities (ODH) via e-mail at odh@neh.gov. Applicants wishing to speak to a staff member by telephone should provide in an e-mail message a telephone

number and a preferred time to call. Applicants who are deaf or hard of hearing can contact NEH via Federal Relay (TTY users) at 800-877-8399.

Grant Program: Fellowships
Agency: National Endowment of Humanities
Website: https://www.neh.gov/grants/research/fellowships
Brief Description: Fellowships support individuals pursuing advanced research that is of value to humanities scholars, general audiences, or both. Recipients usually produce articles, monographs, books, digital materials, archaeological site reports, translations, editions, or other scholarly resources in the humanities. Through NEH-Mellon Fellowships for Digital Publication, the National Endowment for the Humanities and The Andrew W. Mellon Foundation jointly support individual scholars pursuing interpretive research projects that require digital expression and digital publication. To be eligible for this special opportunity, an applicant's plans for digital publication must be essential to the project's research goals. That is, the project must be conceived as digital because the nature of the research and the topics being addressed demand presentation beyond traditional print publication. Successful projects will likely incorporate visual, audio, and/or other multimedia materials or flexible reading pathways that could not be included in traditionally published books, as well as an active distribution plan. Applicants interested in research projects that require digital expression and digital publication are encouraged to apply for NEH-Mellon Fellowships for Digital Publication.
Awards: $50,400 per Fellowship
Letter of Intent: Not Required
Full Proposal Deadline: April 12, 2017
Contact: Contact NEH's Division of Research Programs at 202-606-8200 or fellowships@neh.gov

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