

Grant Opportunity Alerts: Issue: ORD-GOA-2014-01

Here is a brief list of recent grant opportunities that may of interest to NJIT faculty.

Recent Private/Foundation, NSF and NIH Funding Opportunities:

Foundations and Private:

Program: Actelion ENTELLIGENCE Young Investigator Award

RFP Website: <http://www.entelligencemd.org>

Brief Description: The Actelion ENTELLIGENCE Young Investigator Program provides individual grants of up to **\$100,000** each to qualified investigators to conduct research via a 12-month mentored grant

Eligibility:

- Be a United States (US) citizen, a permanent US resident, a Canadian citizen, or permanent Canadian resident at time of LOI submission. Applicants with nonimmigrant visas are not eligible to apply
- Be engaged principally in basic science, translation and/or clinical research with a proposal aimed at understanding the pathways and pathophysiology of pulmonary vascular disease
- Have no more than 5 years of experience beyond his/her first faculty appointment at the start of the award (as of July 1st of the award year)
- Applicants must have completed their primary research training (PhD or sub-specialty fellowship training) by July 1st of award year and have a firm commitment from their home institution for mentored career development. Applicants can be a junior faculty member (up to and including the rank of Assistant Professor), postdoctoral scholar, doctoral candidate or fellow
- Not be an employee of a commercial entity (eg, pharmaceutical company)
- Submit only one ENTELLIGENCE research proposal per application round
- Past winners will not be allowed to submit another LOI during the subsequent award cycle
- The awardee must be able to receive the award directly in his/her name

Letter of Intent: Required

Deadline for LOI: November 6, 2014

Grand Challenges in Health

Program: Explore New Ways to Measure Brain Development and Gestational Age

RFP Website:

http://www.grandchallenges.org/Explorations/Topics/Pages/BrainDevelopmentandGestationalAge_Round14.aspx

Brief Description: There has been striking progress in preventing deaths of children <5 years of age. Challenges remain, however, to ensure the healthy development of these children beginning in fetal life. An intense period of brain development takes place during the fetal and early childhood period. Significant adversity early in life – encompassing biological as well as social factors – can produce physiological disruptions to the developing brain circuits, leading to effects that persist into adulthood. These effects include a substantially higher risk of cognitive, sensorimotor, and psychosocial impairment, with preterm and small-for-gestational-age infants at particularly high risk.

This call for proposals seeks new approaches in two complementary areas:

- We seek innovative ideas for measuring brain function and development, with a focus on tests that are simple, reliable, non-invasive, objective, universally applicable, and include those appropriate for fetal life, newborns, and early infancy. Such tests would be used to guide and monitor existing and new health interventions, and potentially could be used to establish standard curves of brain function-for-age, enabling early detection of deviation from healthy development.
- We seek new approaches for accurately measuring gestational age, focusing on simple, reliable, non-invasive, universally applicable tests that can be applied either to pregnant women or to the newborn or infant.

Seeking proposals that:

- Build on the rapidly growing knowledge of early development – and in particular brain development – as well as advances in measurement tools, such as imaging technologies;
- Are "off the beaten track," daring in premise, and clearly differentiated from approaches currently being developed or employed; and
- Have a testable hypothesis, include an associated plan for how the idea would be tested or validated, and yield interpretable and unambiguous data in Phase I so as to increase the chance of consideration for Phase II funding.

Eligibility/Restrictions: GCE is open to both foreign and domestic organizations, including non-profit organizations, for-profit companies, international organizations, government agencies and academic institutions. Individuals and organizations classified as individuals for U.S. tax purposes (including sole proprietorships and some single member limited liability companies) are not eligible to receive an award as part of the GCE initiative from the foundation.

Deadline: Wednesday, November 12, 2014, 11:30 a.m. US Pacific Standard Time

National Science Foundation:

Program: Information and Intelligent Systems (IIS) Core Programs

RFP Website: NSF 14-596

<http://www.nsf.gov/pubs/2014/nsf14596/nsf14596.htm>

Brief Description: CISE's Division of Information and Intelligent Systems (IIS) supports research and education projects that develop new knowledge in three core programs:

- The Cyber-Human Systems (CHS) program;
- The Information Integration and Informatics (III) program; and
- The Robust Intelligence (RI) program.

Proposals in the area of computer graphics and visualization may be submitted to any of the three core programs described above.

Proposers are invited to submit proposals in three project classes, which are defined as follows:

- Small Projects - up to \$500,000 total budget with durations up to three years;
- Medium Projects - \$500,001 to \$1,200,000 total budget with durations up to four years; and
- Large Projects - \$1,200,001 to \$3,000,000 total budget with durations up to five years.

Eligibility/Restrictions: No specific restriction

Submission Window Date(s) (due by 5 p.m. proposer's local time):

October 27, 2014 - November 10, 2014

MEDIUM Projects

November 12, 2014 - November 20, 2014

LARGE Projects

January 02, 2015 - January 14, 2015

January 2 - January 14, Annually Thereafter

SMALL Projects

September 02, 2015 - September 21, 2015

September 2 - September 19, Annually Thereafter

MEDIUM Projects

November 04, 2015 - November 19, 2015

November 4 - November 19, Annually Thereafter

LARGE Projects

Program: Computer and Network Systems (CNS): Core Programs

RFP Website: NSF 14-597

<http://www.nsf.gov/pubs/2014/nsf14597/nsf14597.htm>

Brief Description: CISE's Division of Computer and Network Systems (CNS) supports research and education projects that develop new knowledge in two core programs:

- Computer Systems Research (CSR) program; and
- Networking Technology and Systems (NeTS) program.

Proposers are invited to submit proposals in three project classes, which are defined as follows:

- Small Projects - up to \$500,000 total budget with durations up to three years;
- Medium Projects - \$500,001 to \$1,200,000 total budget with durations up to four years; and

Large Projects - \$1,200,001 to \$3,000,000 total budget with durations up to five years.

Eligibility/Restrictions: No specific restriction

Submission Window Date(s) (due by 5 p.m. proposer's local time):

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MEDIUM Projects

November 04, 2015 - November 19, 2015

November 4 - November 19, Annually Thereafter

LARGE Projects

Program: Improving Undergraduate STEM Education (IUSE: EHR)

RFP Website: NSF 14-588

<http://www.nsf.gov/pubs/2014/nsf14588/nsf14588.htm>

Brief Description: A well-prepared, innovative science, technology, engineering and mathematics (STEM) workforce is crucial to the Nation's health and economy. Indeed, recent policy actions and reports have drawn attention to the opportunities and challenges inherent in increasing the number of highly qualified STEM graduates, including STEM teachers. Priorities include educating students to be leaders and innovators in emerging and rapidly changing STEM fields as well as educating a scientifically literate populace. Both of these priorities depend on the nature and quality of the undergraduate education experience. In addressing these STEM challenges and priorities, the National Science Foundation invests in evidence-based and evidence-generating approaches to understanding STEM learning; to designing, testing, and studying instruction and curricular change; to wide dissemination and implementation of best practices; and to broadening participation of individuals and institutions in STEM fields. The goals of these investments include: increasing the number and diversity of STEM students,

preparing students well to participate in science for tomorrow, and improving students' STEM learning outcomes.

Eligibility/Restrictions: No specific restriction

Full Proposal Deadline(s) (due by 5 p.m. proposer's local time):

October 22, 2014

Engaged Student Learning: Exploration

October 24, 2014

Institutional and Community Transformation: Exploration

January 13, 2015

Engaged Student Learning: Design and Development, I & II

January 13, 2015

Institutional and Community Transformation: Design and Development

Program: Computing and Communication Foundations (CCF): Core Programs

RFP Website: <http://www.nsf.gov/pubs/2014/nsf14598/nsf14598.htm>

Brief Description: CISE's Division of Computing and Communication Foundations (CCF) supports research and education projects that develop new knowledge in three core programs:

- The Algorithmic Foundations (AF) program;
- The Communications and Information Foundations (CIF) program; and
- The Software and Hardware Foundations (SHF) program.

Proposers are invited to submit proposals in three project classes, which are defined as follows:

- Small Projects - up to \$500,000 total budget with durations up to three years;
- Medium Projects - \$500,001 to \$1,200,000 total budget with durations up to four years; and

Large Projects - \$1,200,001 to \$3,000,000 total budget with durations up to five years.

Eligibility/Restrictions: No specific restriction

Submission Window Date(s) (due by 5 p.m. proposer's local time):

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November 04, 2015 - November 19, 2015

November 4 - November 19, Annually Thereafter

LARGE projects

National Institute of Health

Program: Global Brain and Nervous System Disorders Research Across the Lifespan (R21)

RFP Website: PAR 14-331 <http://grants.nih.gov/grants/guide/pa-files/PAR-14-331.html>

Brief Description: This Funding Opportunity Announcement (FOA) encourages exploratory/developmental research grant applications, proposing the development of innovative, collaborative research projects on other nervous system function and disorders throughout life, relevant to low- and middle-income countries (LMICs). Scientists in the United States (U.S.) or upper middle income countries (UMICs) are eligible to partner directly with scientists in LMIC institutions. Income categories used are as defined by the World Bank at <http://data.worldbank.org/about/country-classifications/country-and-lending-groups>.

These grants are expected to inform the development of more comprehensive research programs that contribute to the long-term goals of building sustainable research capacity in LMICs to address nervous system development, function and impairment throughout life and to lead to diagnostics, prevention, treatment and implementation strategies. The proposed work may also contribute to developing a base for research networking and evidence-based policy beyond the specific research project.

Eligibility/Restrictions No specific restriction

Letter of Intent: Required 30 days before the deadline

Open Date: December 5, 2014

Deadline: January 5, 2015; January 5, 2016; January 5, 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 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.

Program: Global Brain and Nervous System Disorders Research Across the Lifespan (R01)

RFP Website: PAR 14-332 <http://grants.nih.gov/grants/guide/pa-files/PAR-14-332.html>

Brief Description: This Funding Opportunity Announcement (FOA) encourages grant applications for development of innovative, collaborative research projects between U.S. and low- and middle-income country (LMIC) scientists on brain and other nervous system function and disorders throughout life, relevant to LMICs. Scientists in the United States (U.S.) or upper middle income countries (UMICs) are eligible to partner directly with scientists at other LMIC institutions. Income categories are defined by the World Bank at <http://data.worldbank.org/about/country-classifications/country-and-lending-groups>.

The collaborative research programs are expected to contribute to the long-term goals of building sustainable research capacity in LMICs to address nervous system development, function and impairment throughout life and to lead to diagnostics, prevention, treatment and implementation strategies. The proposed work will also contribute to developing a base for research networking and evidence-based policy beyond the specific research project.

Eligibility/Restrictions: No specific restriction

Letter of Intent: Required 30 days before the deadline

Open Date: December 5, 2014

Deadline: January 5, 2015; January 5, 2016; January 5, 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 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.

Program: Interdisciplinary Research to Understand the Vascular Contributions to Alzheimer's Disease

RFP Website: AG-15-010 <http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-15-010.html>

Brief Description: The goal of this funding opportunity announcement is to support interdisciplinary research that will lead to a greater understanding of the mechanisms by which vascular factors contribute to the etiology of Alzheimer's disease.

The development of effective biological markers and interventions to prevent or delay the onset of AD is dependent on gaining an in-depth understanding of how multiple etiologies and prodromal phenotypes drive neurodegenerative changes that result in cognitive decline and dementia. The goal of this funding opportunity is to enable greater understanding of the mechanisms by which vascular factors contribute to the complex and heterogeneous etiology of Alzheimer's and related dementias.

Eligibility/Restrictions: No specific restriction

Letter of Intent: January 3, 2015

Open Date: January 3, 2015

Deadline: February 3, 2015, 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.