

Office of Research Newsletter – August 22, 2014

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Part I. News and Announcements

NIH Single Cell Analysis Challenge: Follow That Cell

The NIH is challenging science innovators to compete for prizes totaling up to \$500,000, by developing new ways to track the health status of a single cell in complex tissue over time. The NIH Follow that Cell Challenge seeks tools that would, for example, monitor a cell in the process of becoming cancerous, detect changes due to a disease-causing virus, or track how a cell responds to treatment. The challenge aims to generate creative ideas and methods for following and predicting a single cell's behavior and function over time in a complex multicellular environment – preferably using multiple integrated measures to detect its changing state.

Phase 1 of the Challenge requires a written proposed solution which describes a novel method for analyzing dynamic states of individual cells that can serve as the basis for predicting alterations in cell behavior and function over time, due by December 15, 2014. Submissions will be screened by panels of outside and NIH staff experts prior to review by a three-judge panel consisting of the NIMH, NIBIB, and DPCPSI directors, who will award up to six prizes totaling \$100,000, to be announced March 16, 2015.

Phase 1 winners and runners-up will be eligible to participate in Phase 2, a “Reduction to Practice” to provide proof of concept data related to their Phase 1 entries. These submissions will be due March 30, 2017. One or two winning solutions will receive prizes totaling \$400,000, to be announced July 31, 2017.

More at <http://www.nih.gov/news/health/aug2014/nimh-21.htm>

Integrated NSF Support Promoting Interdisciplinary Research and Education (INSPIRE)

The Integrated NSF Support Promoting Interdisciplinary Research and Education (INSPIRE) pilot seeks to support bold interdisciplinary projects in all NSF-supported areas of science, engineering, and education research. INSPIRE has no targeted themes and serves as a funding mechanism for proposals that are required both to be interdisciplinary and to exhibit potentially transformative research.

INSPIRE supports projects that lie at the intersection of traditional disciplines, and is intended to 1) attract unusually creative high-risk / high-reward interdisciplinary proposals; 2) provide substantial funding, not limited to the exploratory stage of the pursuit of novel ideas (unlike NSF's EARly-concept Grants for Exploratory Research, or EAGER); and 3) be open to all NSF-supported areas of science, mathematics, engineering, and education research.

INSPIRE PROPOSAL SUBMISSION:

- INSPIRE proposals must be compliant with the NSF Grant Proposal Guide (GPG), http://www.nsf.gov/publications/pub_summ.jsp?ods_key=gpg unless a deviation from the standard proposal preparation instructions is indicated below.
- NSF will not accept collaborative INSPIRE proposals for a single project submitted separately from multiple organizations. A multi-organization INSPIRE project must be submitted as a single proposal requesting a single award with subawards administered by the lead organization.
- The project title on the proposal Cover Sheet will be preceded by the prefix "INSPIRE:" to distinguish the submission from a regular proposal that would go through a regular review process.
- Documentation from at least two NSF program officers confirming approval to submit a proposal must be provided in the Special Information and Supplementary Documentation section of proposal. An INSPIRE proposal submitted without the required program officer authorizations will be returned without review. This documentation represents the program officer's preliminary judgment that the project might be appropriate for consideration under the INSPIRE grant mechanism; it is not a commitment to recommend support of a proposal with program funds. If the program officers find that the proposal idea is more appropriate for a regular review process than for INSPIRE, or that the idea does not appear to be promising as an INSPIRE project, they will so inform the principal investigator(s).
- Requests may be for up to \$1,000,000 and up to five years in duration. The award size and duration will be consistent with the project scope.
- The proposal must explicitly address how the project is better suited for INSPIRE than for a regular NSF review process.
- The proposal will be submitted electronically via FastLane or Grants.gov to one of the prospective co-funding programs, with the other program(s) identified on the proposal Cover Sheet.

More at

http://www.nsf.gov/pubs/2014/nsf14106/nsf14106.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click

A Weekly Newsletter from DOE Office of Energy Efficiency and Renewable Energy (EERE): <http://apps1.eere.energy.gov/news/enn.cfm>

MARK YOUR CALENDAR

September 19, 2014, 8:30 a.m. to 12:30 p.m., Sarazen Student Union, Rooms 241-243, Siena College

National Endowment for the Humanities Grant Workshop

Dr. Russell Wyland, Deputy Director of NEH Research Program will discuss NEH funding opportunities and offer tips for writing competitive proposals. He will also conduct a mock Proposal Review Panel in which participants read, discuss and rank proposals to better understand how proposals are evaluated and recommended for NEH funding. This workshop is free and open to the public, but registration is required. To register, please RSVP via email to NEHworkshop@siena.edu by September 1 (please indicate if you plan to stay for lunch).

Part II. Funding Opportunities

Army

Night Vision Technologies

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=262229>

August 15, 2019

U.S. Army Research Laboratory Center for Distributed Quantum Information

https://www.fbo.gov/index?s=opportunity&mode=form&id=0ae2481dfa71231c782f6e03ace76195&tab=core&_cview=0

White Paper Due Date: September 29, 2014

DARPA

RFI: Microwave Magnetic Components

https://www.fbo.gov/index?s=opportunity&mode=form&id=e23d121681296838db5449b8067f996d&tab=core&_cview=0

September 4, 2014

Navy

FY15 Project on Advanced Systems and Concepts for Countering WMD

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=254852>

March 31, 2015

DOE

FY2015 Scientific Infrastructure Support for Consolidated Innovative Nuclear Research (CINR)

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=262329>

February 2, 2015

NASA

Planetary Instrument Concepts for the Advancement of Solar System Observations

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=261909>

September 15, 2014 (Step 1); November 14, 2014 (Step 2)

NIH

Request for Information (RFI): Input on Gaps in Knowledge Relevant to the National Eye Institute Audacious Goal Initiative

<http://grants.nih.gov/grants/guide/notice-files/NOT-EY-14-003.html>

October 1, 2014

Centers without Walls for Collaborative Research in the Epilepsies: Developing Disease Modifying or Prevention Therapies (U54)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-15-001.html>

LOI Due Date: October 6, 2014. Application Due Date: November 6, 2014

MD-PhD Training Program in Aging and the Social/Behavioral Sciences (T32)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-15-012.html>

LOI Due Date: October 7, 2014. Application Due Date: November 7, 2014

NIH-NSF Ecology and Evolution of Infectious Diseases Program: A Joint Program for Multidisciplinary Research

<http://grants.nih.gov/grants/guide/notice-files/NOT-TW-14-009.html>

November 19, 2014

NSF

Research in Engineering Education (REE)

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503584&WT.mc_id=USNSF_39&WT.mc_ev=click

September 18, 2014; Third Thursday in September, Annually Thereafter; January 22, 2015;

Fourth Thursday in January, Annually Thereafter

Limited solicitation: IUSE / Professional Formation of Engineers: Revolutionizing Engineering Departments (RED)

http://www.nsf.gov/pubs/2014/nsf14602/nsf14602.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

LOI Due Date: October 28, 2014. Full Proposal Due Date: November 26, 2014

Please note that this bulletin is not intended to be an exhaustive listing of funding opportunities. Your input and feedback are always welcome. Please send your comments and requests to be removed from the distribution list to huangj7@rpi.edu.