# Introduction to the National Science Foundation

June 2015
Tuskegee University
ITEST/Cyberlearning
Workshop



## About NSF and what we fund



## **National Science Foundation's Mission**



## The US National Science Foundation

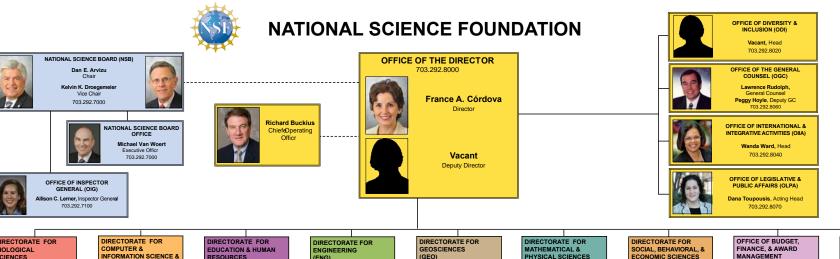
- US government agency, funded by tax dollars
- Funds, but doesn't do, scientific research
- Reports to the National Science Board, 24 scientists appointed by the President and confirmed by the Senate

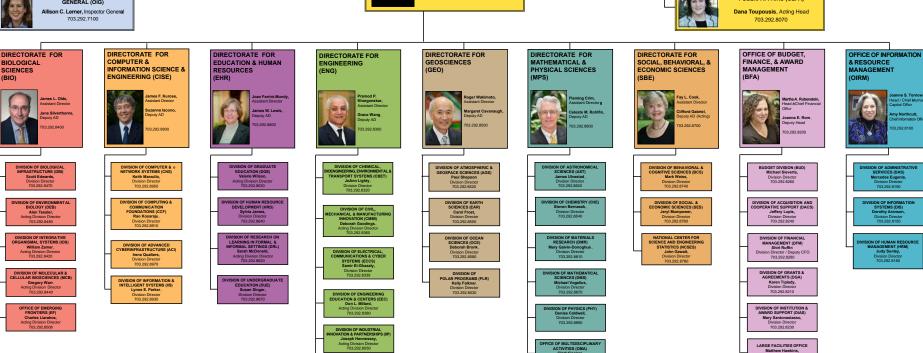


# Organization of NSF

- NSF funds research and development in all fields of science, technology, engineering and math (STEM)
- NSF is organized into Directorates (like colleges in a university) and Divisions (like departments)
- NSF funds a variety of R&D project in STEM education







National Science Foundation 4201 Wilson Boulevard Arlington, Virginia 22230

TEL: 703.292.5111 | FIRS: 800.877.8339 | TDD: 800.281.8749



January 2015

# Education and technology at NSF

## Education and Human Resources

 Research, development, and implementation supporting STEM education in the US at all ages (including research on broadening participation in STEM, learning and learning environments, and STEM workforce)

## Social, Behavioral & Economic Sciences

Research in social science (psych, neuro, anthro, etc.)
 which may include learning research

## Computer & Information Sciences & Engineering

 Research on developing and studying new technologies, including learning technologies, plus some programs related to educating computer scientists

### Other directorates

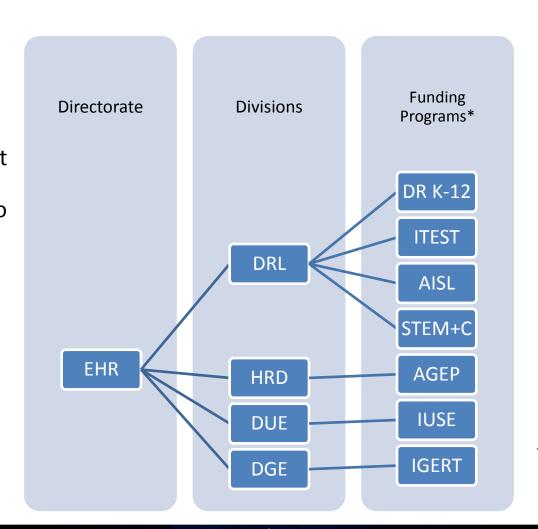
 May have projects on using technologies in education in their respective disciplines



## Education and Human Resources

### Mission:

To enable excellence in U.S. **STEM education** at all levels and in all settings in order to support the development of a diverse and wellprepared **workforce** of scientists, technicians, engineers, mathematicians, and educators.



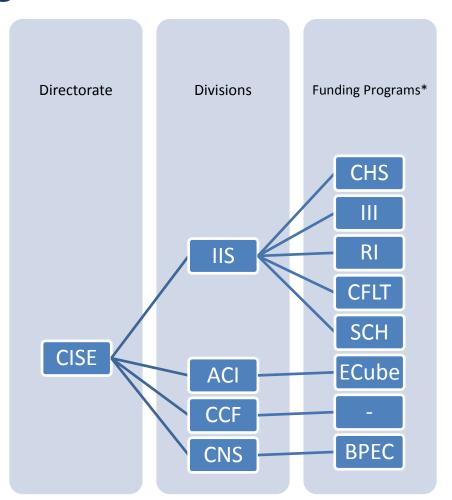
★ This is for demonstration. Not all programs are listed.



# Computer & Information Sciences & Engineering

### Mission:

To enable excellence in U.S. **STEM education** at all levels and in all settings in order to support the development of a diverse and wellprepared workforce of scientists, technicians, engineers, mathematicians, and educators.



★ This is for demonstration. Not all programs are listed.



# Contrasting education & cyberlearning at NSF with other agencies

- NSF's mission does not include clinical health research or education, although it can include basic research relevant to health (try NIH)
- NSF's mission does not give us primary responsibility for educational implementation in the US (this is primarily a state responsibility, or US Department of Education).
- We support commercialization of research in some of our programs, but we are not a venture capital fund, and we definitely don't support commercial ventures with no relation to research



# How NSF evaluates proposals

- Submissions are made to specific calls (program announcements, program solicitations) or via our general Grants Proposal Guide
- Proposals that follow the submission guidelines are peer reviewed according to National Science Board Criteria\*
- We fund a small proportion of proposals (typically 5-15% of those submitted)



## Important rules for newcomers

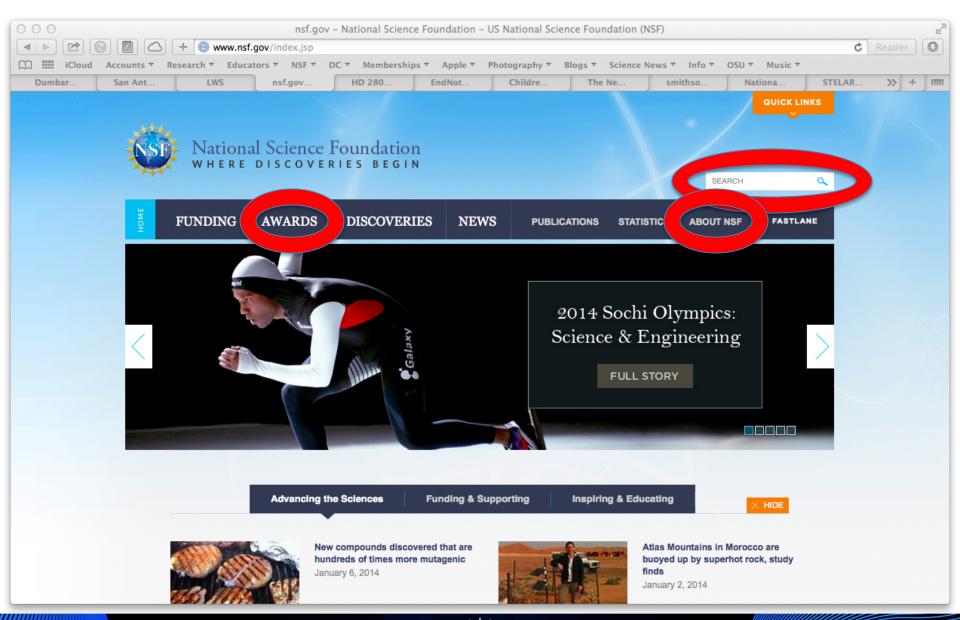
- Read the Grants Proposal Guide and follow it
- Your proposal has to come through an eligible institution (typically a university or non-profit)
- Don't send in the same proposal multiple times
- Ask questions if you have them
- Consider resubmission with changes from feedback from earlier proposals, but note that all submissions are reviewed from scratch



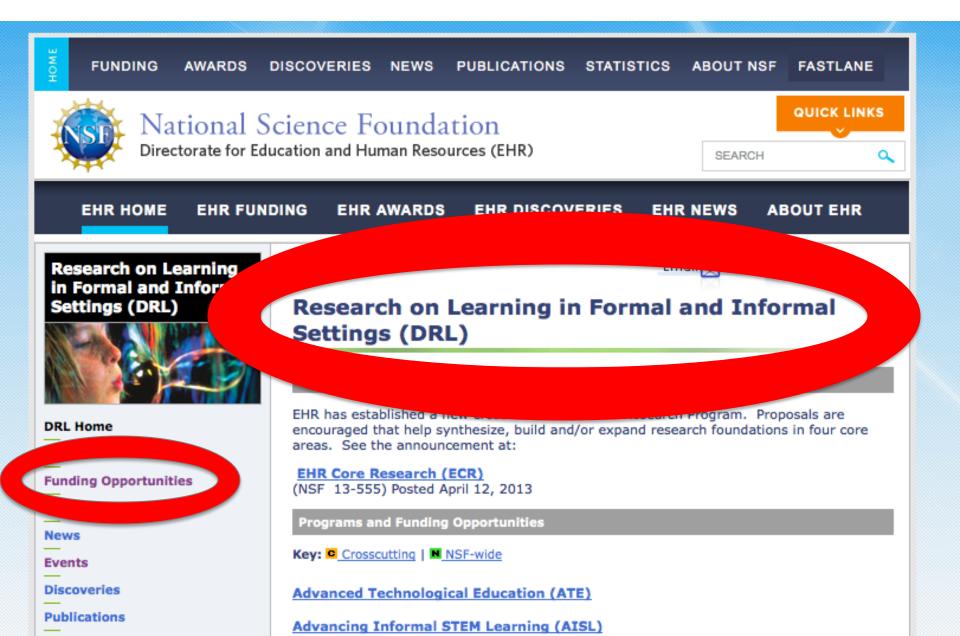
# The submitter's three jobs

- Identify the right funding opportunity
- Conceptualize a fantastic project
- Write a persuasive proposal in 15 pages





## Finding Funding Opportunities on the NSF Website: www.nsf.gov





**Find Funding** 

A-Z Index of Funding Opportunities

**Recent Funding Opportunities** 

**Upcoming Due Dates** 

Advanced Funding Search

Interdisciplinary Research

**How to Prepare Your Proposal** 

**About Funding** 

#### Proposals and Awards

Proposal and Award Policies and Procedures Guide

Introduction

Proposal Preparation and

- Grant Proposal Guide
  - Granco ... Guide

Award and Administration

Award and Administration Guide

**Award Conditions** 

Other Types of Proposals

**Merit Review** 

**NSF Outreach** 

Policy Office

Related

### Research on Learning in Formal and Informal Settings

## Innovative Technology Experiences for Students and Teachers (ITEST)

### STEM Learning and Research Center

The STEM Learning and Research (STELAR) Center builds capacity and magnifies the results of ITEST projects to deepen the impact of the ITEST program. To learn more about STELAR, the ITEST program, and current and past ITEST projects, please visit <a href="http://stelar.edc.org/">http://stelar.edc.org/</a>.

#### CONTACTS

Name	Email	Phone	Room
Address questions to	DRLITEST@nsf.gov	(703) 292-8628	77.0
Julia V. Clark	jclark@nsf.gov	(703) 292-5119	
Edith Gummer	egummer@nsf.gov	(703) 292-5110	
David L. Haury	dhaury@nsf.gov	(703) 292-8614	
Andres Henriquez	ahenriqu@nsf.gov	(703) 292-5092	
Christopher Hoadley	choadley@nsf.gov	(703) 292-7906	
Julie I. Johnson	jjohnson@nsf.gov	(703) 292-8624	
Julio E. Lopez-Ferrao	jlopezfe@nsf.gov	(703) 292-5183	
Celestine H. Pea	cpea@nsf.gov	(703) 292-5186	
Robert Russell	rirussel@nsf.gov	(703) 292-2995	
Gerhard L. Salinger	gsalinge@nsf.gov	(703) 292-5116	
Finbarr (Barry) Sloane	fsloane@nsf.gov	(703) 292-8465	
Elizabeth VandorButt	dorn@nsf.gov	(703) 292-5147	

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### **DUE DATES**

Full Proposal Deadline Date: February 11, 2014

Full Proposal Deadline Date: November 6, 2014

# Some important notes

- Solicitations come and go. Some are multiyear, some are not but recur anyhow, many change names
- Solicitations will always have a minimum of 90 days to submit but may not have more
- Most solicitations follow the fiscal year, due in late fall or spring
- Just because NSF has funded a certain kind of work in the past doesn't mean we have money for it in the future

