Welcome to NSF Day!

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A Choice to Change the World

NSF

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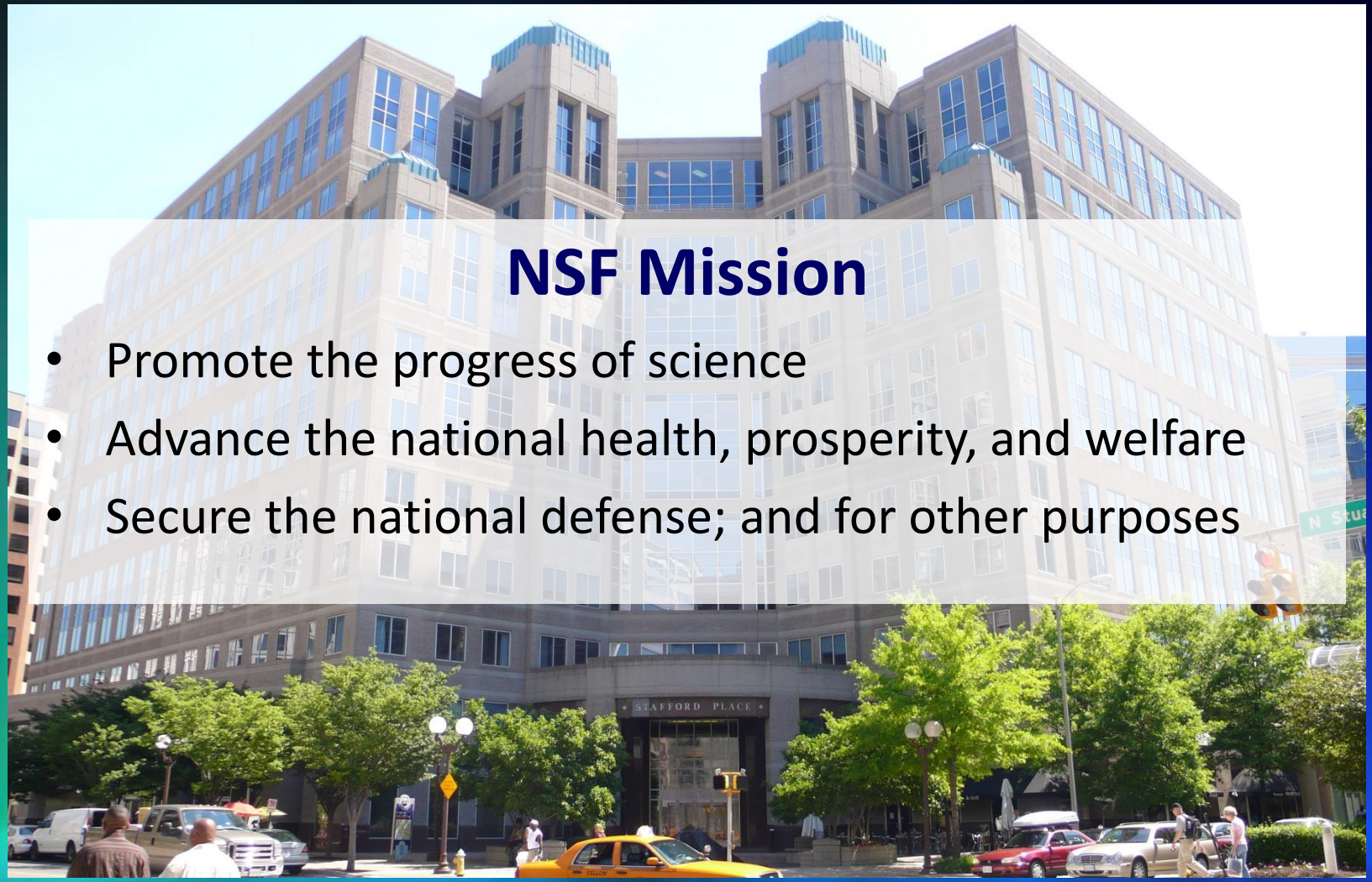
What NSF Does

NSF Vision

Advance discovery, innovation, and education beyond the frontiers of current knowledge

Empower future generations in science and engineering

What NSF Does



NSF Mission

- Promote the progress of science
- Advance the national health, prosperity, and welfare
- Secure the national defense; and for other purposes

***NSF will relocate to Alexandria, VA in 2018**

NSF Core Values

Accountability for Public Benefit

Scientific Excellence

Organizational Excellence

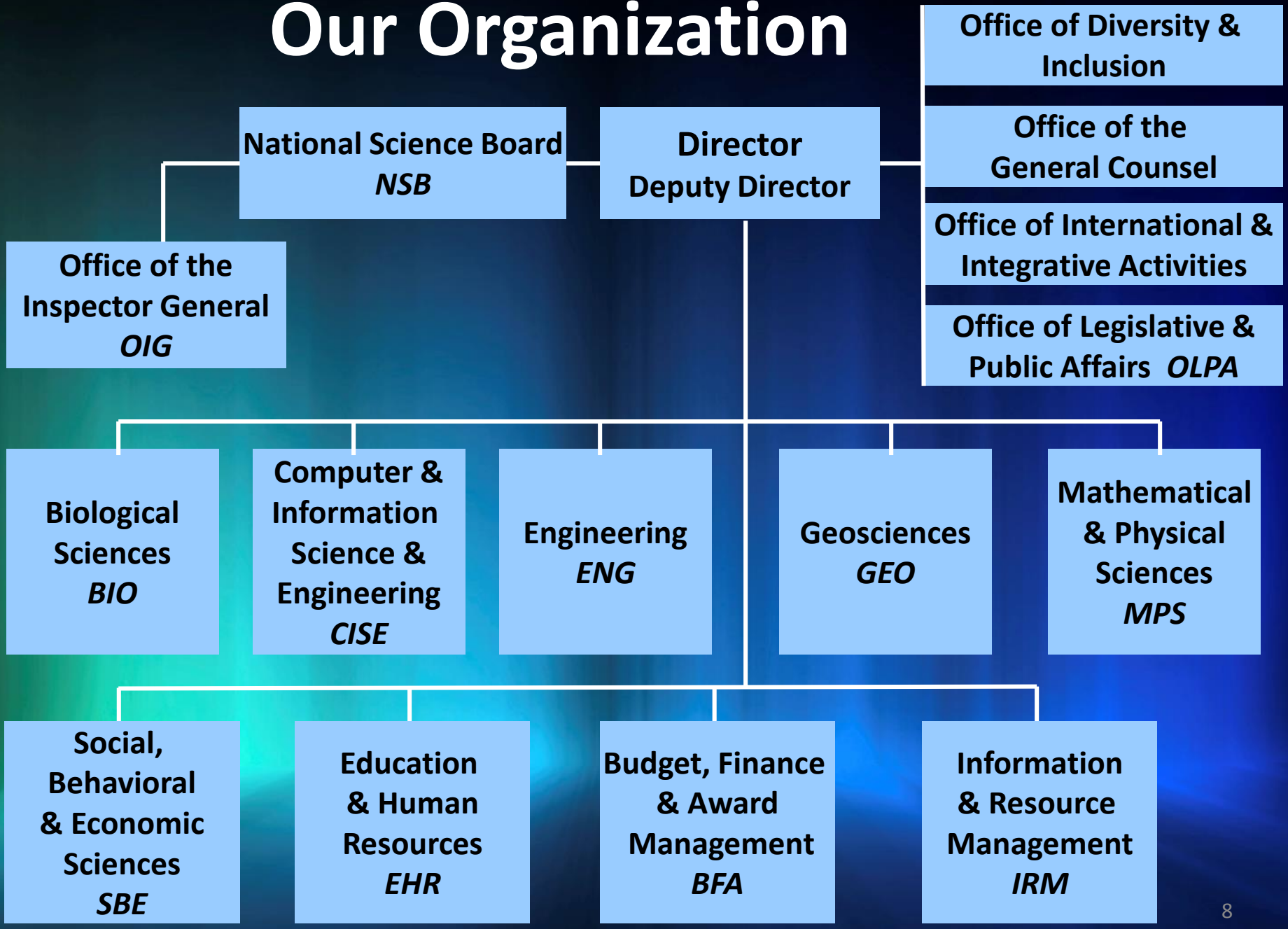
Learning

Inclusiveness

The NSF in a Nutshell

- Independent agency
- Co-led by a Director and National Science Board
- Supports basic research & education
- Uses grant mechanism through competitive merit review
- Discipline-based structure
- Cross-disciplinary mechanisms
- Use of Rotators/IPAs
- Low overhead (~6%)
- Highly automated

Our Organization



NSF by the Numbers

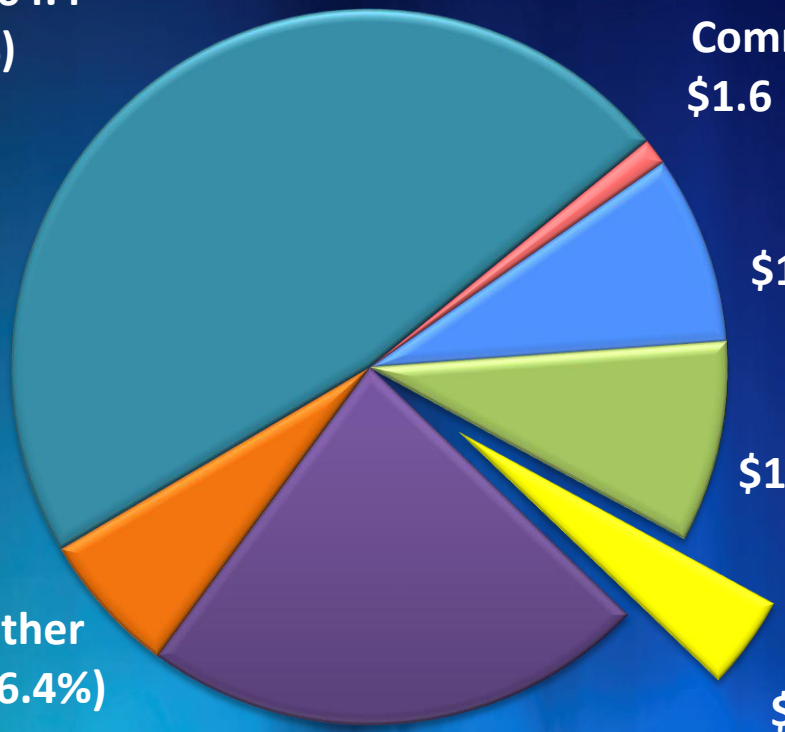
1,826	Colleges, universities, and other institutions NSF funded
11,000	Competitive awards NSF funded
49,800	Students supported by NSF Graduate Research Fellowships (since 1952)
48,000	Proposals evaluated through competitive merit review
226,000	Reviews conducted
321,000	Individuals NSF directly supported (researchers, postdocs, trainees, teachers, and students)
$6.9 billion	FY 2013 Budget Actuals
$7.1 billion	FY 2014 Budget Actuals
Figures represent FY 14 actuals	

NSF Budget: FY 2015 and FY 2016

(dollars in millions)		
	FY 2015 Plan	FY 2016 Request
Research & Related Activities (R&RA)	$5,934	$6,186
Education & Human Resources	866	963
Major Research Equipment & Facilities Construction	201	200
Agency Operations & Award Management (AOAM)	325	355
National Science Board	4	4
Office of Inspector General	14	15
Total, NSF	$7,344	$7,724

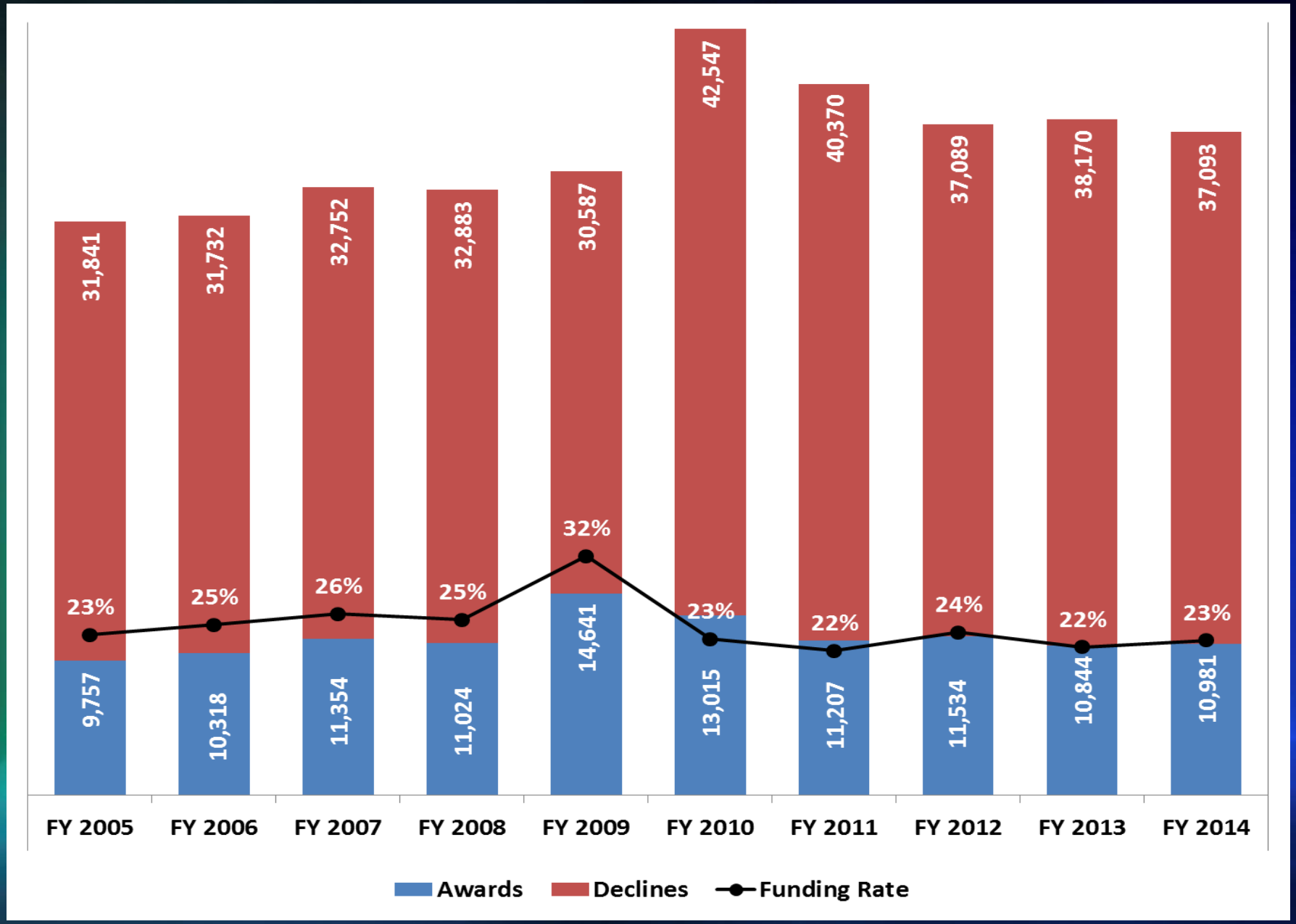
NSF in Perspective

2015 Total Federal R&D Budget for the United States ($135.4 billion)



*Dollar Amounts in billions

NSF Competitive Awards, Declines & Funding Rates



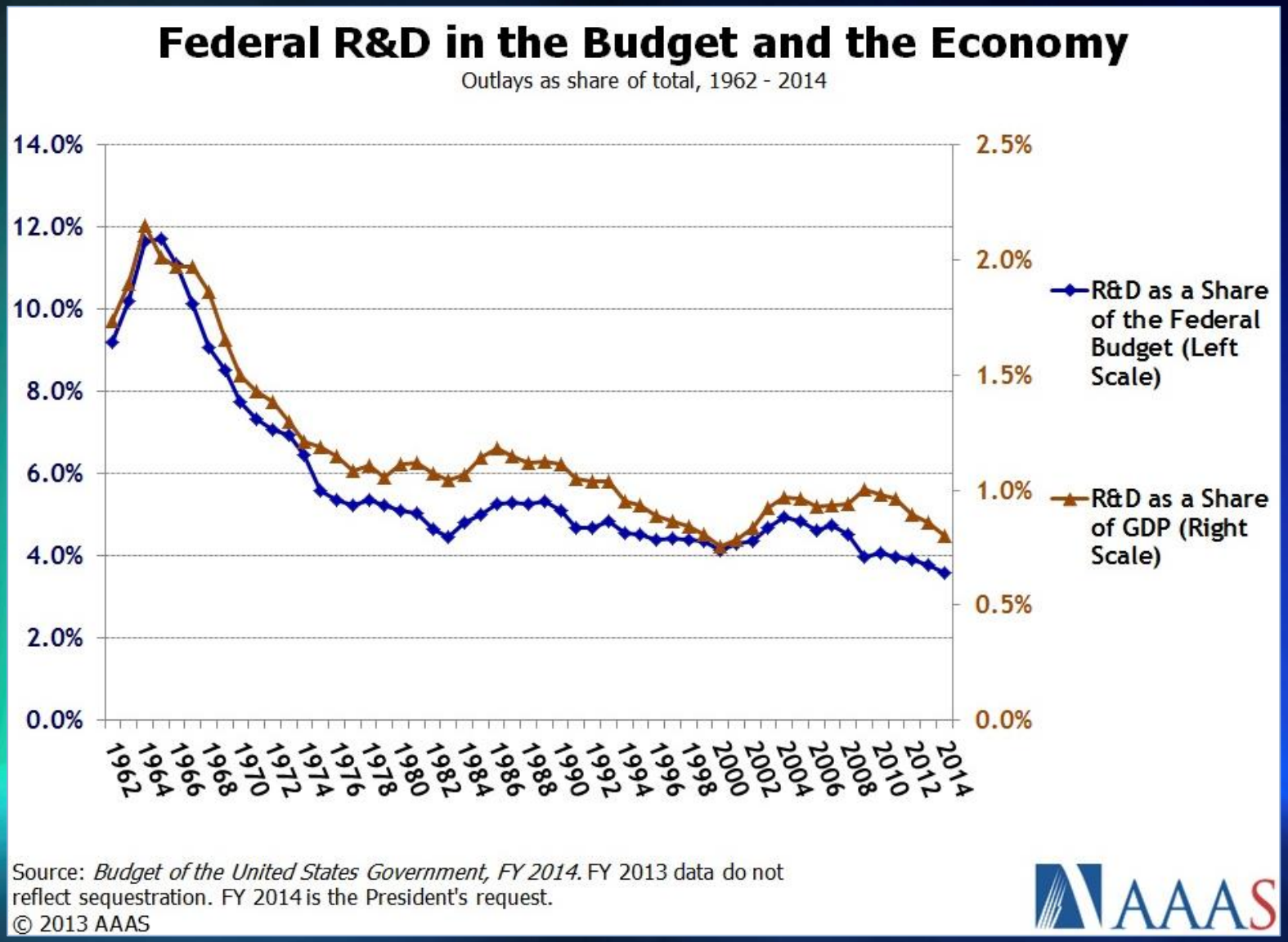
NSF's Culture of Communication

NSF is Committed to Transparency and Accountability

Projects and the expenditure of public funds must be clearly described and justified.

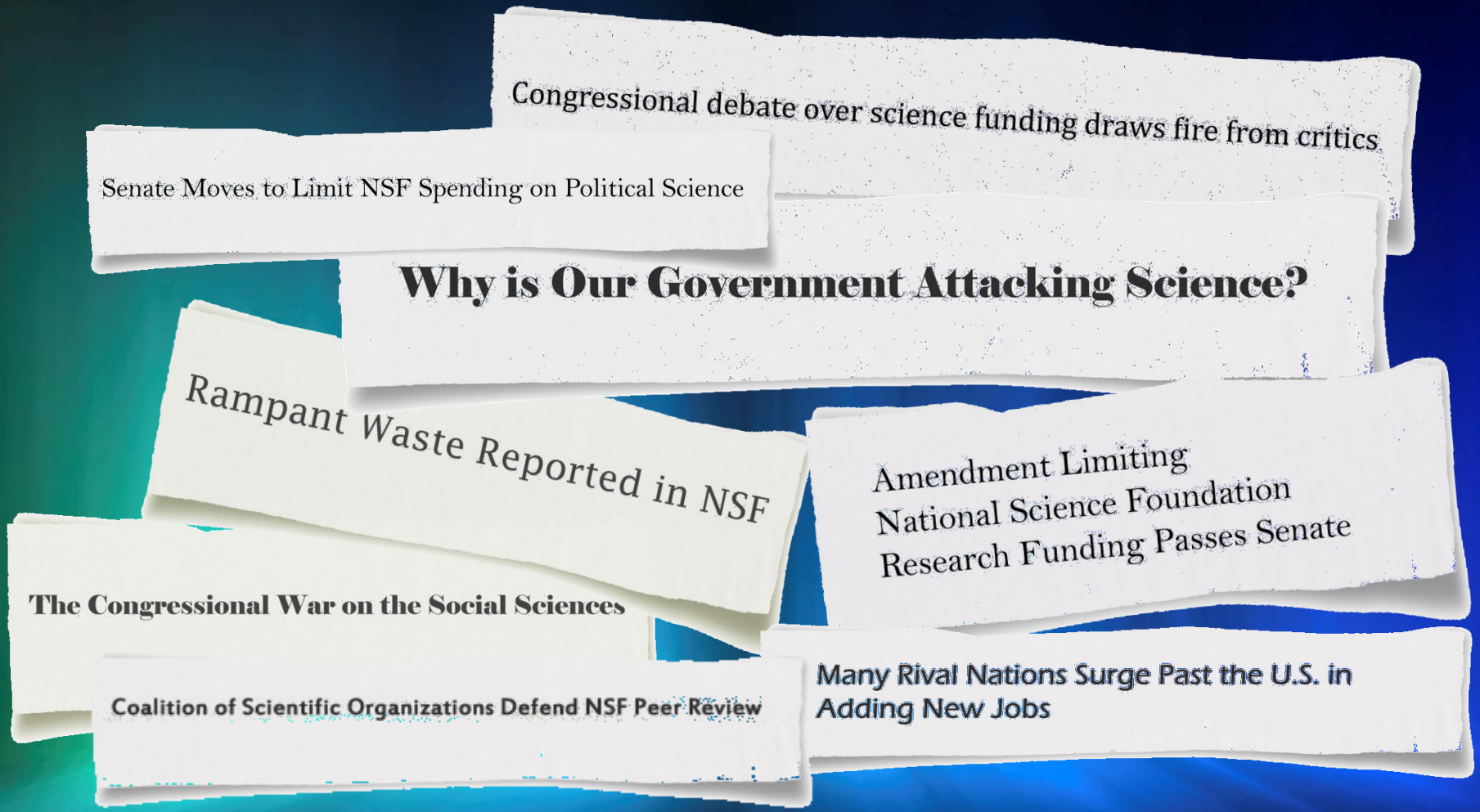
The Changing Budget Landscape

R&D as a % Federal Budget

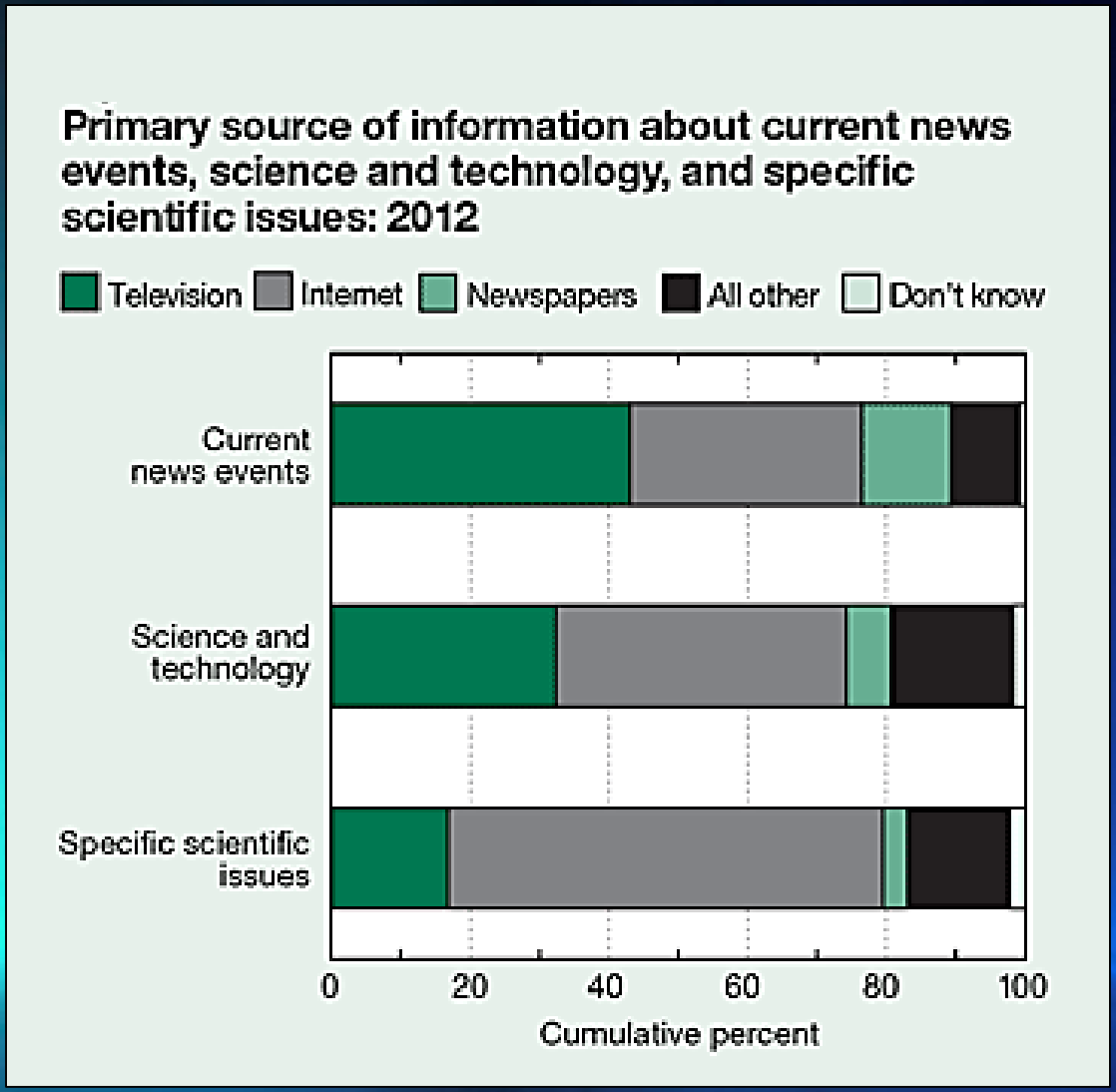


R&D as a % GDP

Public Scrutiny of the NSF



The Media Landscape



Source: Science & Engineering Indicators 2014

Society's Changing Needs

Natural hazards

Climate change

Energy

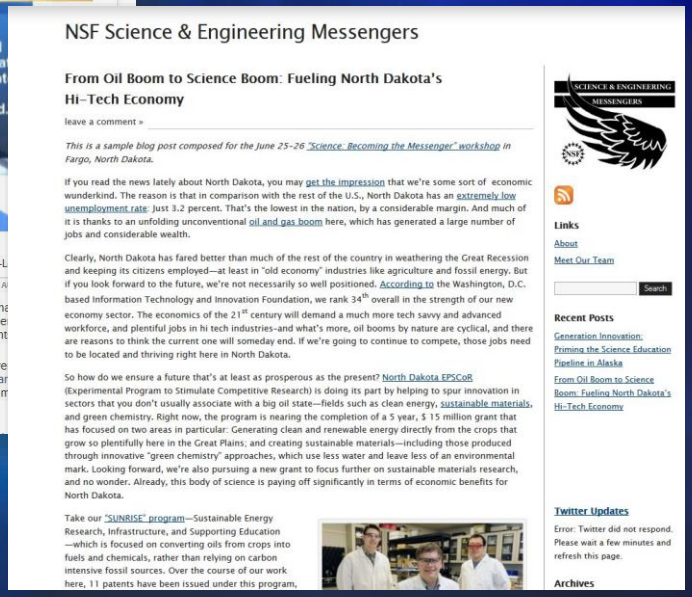
Food and drug safety

Cybersecurity

Youth violence

NSF's Communication Strategy

Create a context and narrative for the general public and for policy makers



When Should You Communicate?

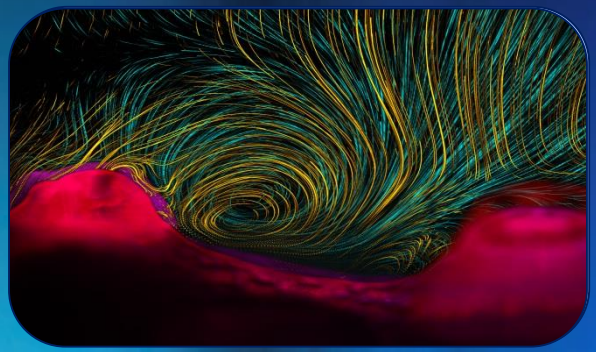
Before, **during** and **after** your work is NSF funded, work with:

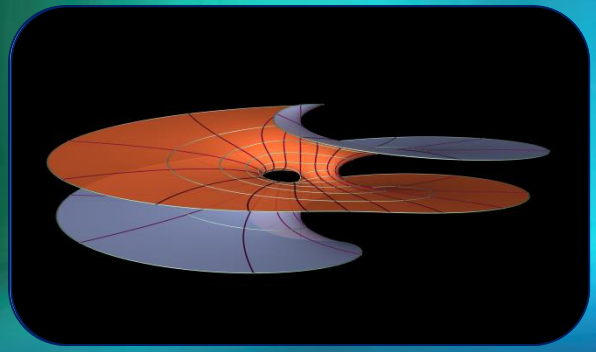
- Your NSF program officer
- Your institution's public information officer
- Broader communities
- NSF's Office of Legislative and Public Affairs

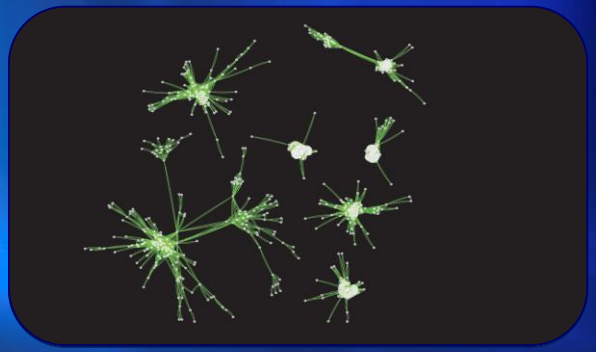
Failure to Communicate

NSF's Organization

The NSF Directorates & Offices







Biological Sciences (BIO)

Ben Holt
Division of Integrative Organismal Systems
bholt@nsf.gov

Rotating Program Officer, Developmental Systems Cluster

Associate Professor, University of Oklahoma

Manages programs funding for Plant, Fungal and Microbial Development and Evolution of Development

Biological Sciences (BIO)

James Olds, Assistant Director
Jane Silverthorne, Deputy Assistant Director

Emerging Frontiers (EF)

Division of Biological Infrastructure (DBI)

James Deshler, Division Director
Anne Maglia, Deputy Division Director

Division of Molecular and Cellular Biosciences (MCB)

Linda Hyman, Division Director
Theresa Good, Deputy Division Director

Division of Environmental Biology (DEB)

Paula Mabee, Acting Division Director
Alan Tessier, Deputy Division Director

Division of Integrative Organismal Systems (IOS)

Rob Miller, Acting Division Director
Bill Zamer, Acting Deputy Division Director

Biological Sciences (BIO)

Priorities

Investigator-driven projects in all areas of Biological Research

Brain Research through Advancing Innovative Neurotechnologies (BRAIN)

National Ecological Observatory Network (NEON)

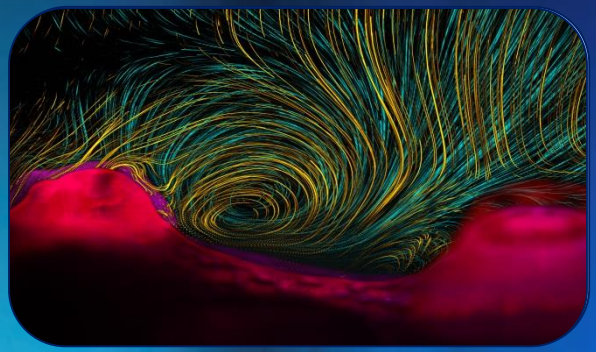
Plant Genome Research Program (PGRP)

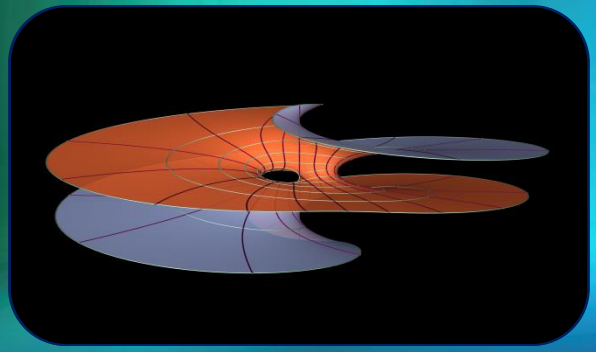
Dimensions of Biodiversity

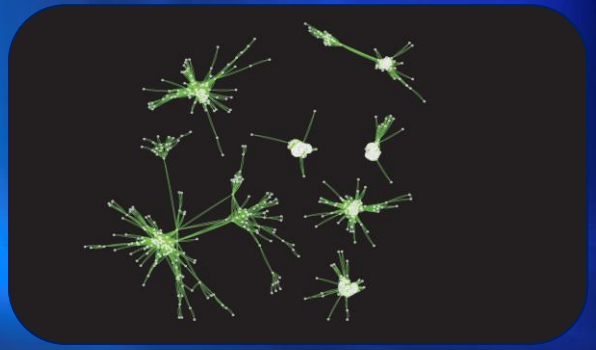
Projects at interface of biology, mathematics, and engineering (BIOMAPS)

NEW: Enabling Discovery through Genomic Tools (EDGE)

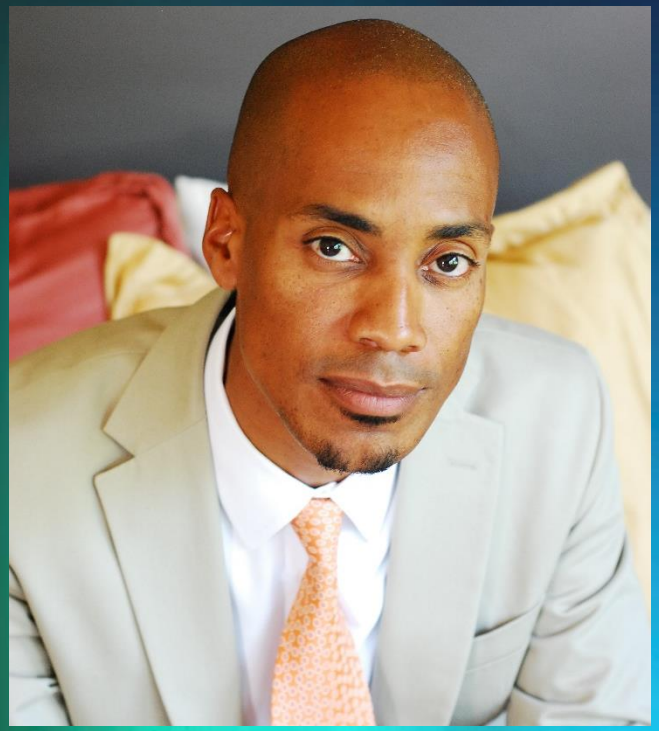
The NSF Directorates & Offices







Computer & Information Science & Engineering (CISE)



Kamau Bobb
Computer Network Systems (CNS)
kbobb@nsf.gov

STEM + Computing Partnerships (STEM+C)

Cyberlearning and Future Learning Technologies (Cyberlearning)

Revolutionizing Engineering and computer science Departments (RED)

Computer & Information Science & Engineering (CISE)

James F. Kurose, Assistant Director
Erwin Gianchandani, Deputy Assistant Director (Acting)

Division of Advanced Cyberinfrastructure (ACI)

Irene M. Qualters, Division Director
Amy Apon, Deputy Division Director (Acting)

Division of Information and Intelligent Systems (IIS)

Lynne Parker, Division Director
Deborah F. Lockhart, Deputy Division Director

Division of Computing and Communication Foundations (CCF)

S. Rao Kosaraju, Division Director
James J. Donlon, Deputy Division Director

Division of Computer and Network Systems (CNS)

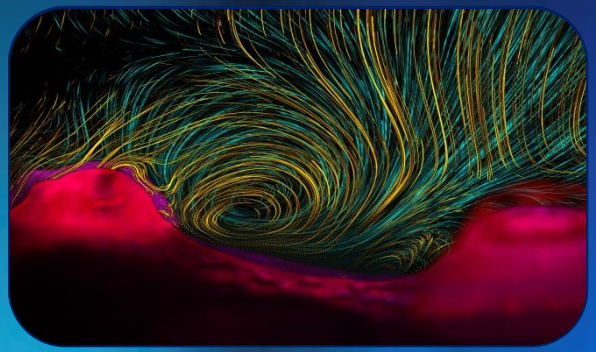
Peter Arzberger, Div. Director (Acting)
Phillip Regalia, Deputy Division Director (Acting)

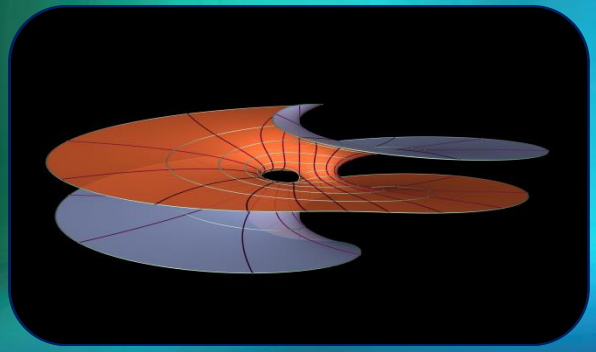
Computer & Information Science & Engineering (CISE)

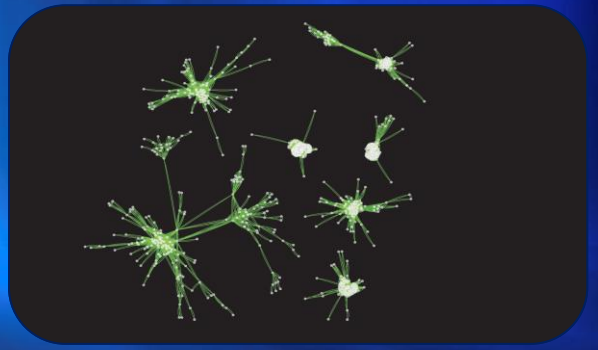
Directorate Priorities

- Core research programs across computer science
- Cross-CS and cross-NSF programs (e.g., BRAIN, SaTC, NRI)
- CS education (cyberlearning)
- Building cyber infrastructure

The NSF Directorates & Offices







Education & Human Resources (EHR)

Karen King
Division of Research & Learning
kking@nsf.gov

- Lead, EHR Core and Indicators of Successful K-12 STEM initiative
- Executive Secretary, NSB's Committee on Education and Human Resources
- Director of Research, National Council of Teachers of Mathematics
- Co-editor, Disrupting Tradition: Research and Practice Pathways in Mathematics Education

Education & Human Resources (EHR)

Dr. Joan Ferrini-Mundy
Assistant Director

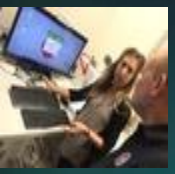
Division of Graduate Education (DGE)
Dean Evasius
Division Director

Division of Human Resource Development (HRD)
Sylvia M. James
Division Director

Division of Research on Learning in Formal and Informal Settings (DRL)
Evan Heit
Division Director

Division of Undergraduate Education (DUE)
Susan R. Singer
Division Director

Education & Human Resources (EHR)




Learning and learning environments

- Cognitive and non-cognitive foundations of STEM
- Creative uses of formal and informal STEM learning

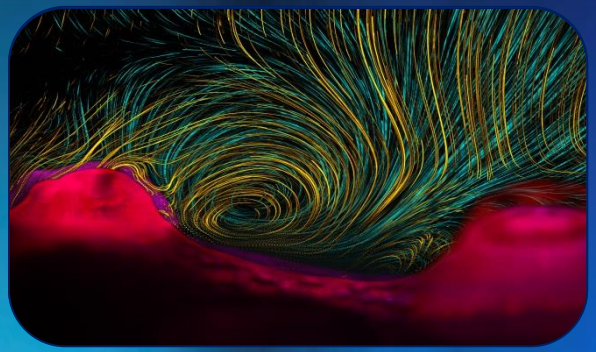
Broadening participation in STEM

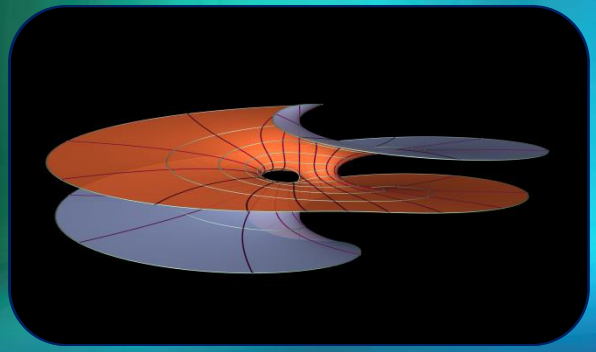
- Access to and success in high quality STEM education for underrepresented groups

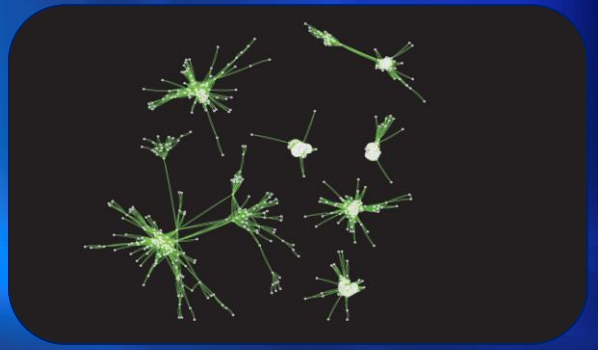
STEM professional workforce development

- Capitalize on scientific advances
- Address not yet imagined global, social & econ challenges

The NSF Directorates and Offices







Engineering (ENG)

Alexander Leonessa
ENG / CBET
aleoness@nsf.gov

Supervises the General and Age Related Disability Engineering (GARDE) program

Also cognizant program officer for:
- Major Research Instrumentation program
- National Robotic Initiative
- Partnership for Innovation program
- Integrative Strategies for Understanding Neural and Cognitive Systems program

Faculty member at Virginia Tech

Former faculty member at Florida Atlantic University, University of Central Florida

Engineering (ENG)

Emerging Frontiers in Research and Innovation (EFRI)
Sohi Rastegar

Innovation Corps
Babu DasGupta

Pramod Khargonekar, Assistant Director
Grace Wang, Deputy Assistant Director

Senior Advisor for Nanotechnology
Mihail Roco

Program Director for Strategic Operations
Cheryl Albus

Program Director for Evaluation & Assessment
Alexandra Medina-Borja

Engineering Education and Centers (EEC)

Mario Rotea, Division Director

Chemical, Bioengineering, Environmental, and Transport Systems (CBET)

JoAnn Lighty, Division Director

Civil, Mechanical, and Manufacturing Innovation (CMMI)

Deborah Goodings, Division Director

Electrical, Communications, and Cyber Systems (ECCS)

Samir El-Ghazaly, Division Director

Industrial Innovation and Partnerships (IIP)

Barry Johnson, Division Director

ENG Initiatives and Priorities Address National Interests

- INFEWS
- Risk and Resilience: CRISP
- Urban Science
- Clean Energy Technology*
- Cyber-Enabled Materials, Manufacturing, and Smart Systems - Advanced Manufacturing*
- Optics and Photonics
- Understanding the Brain
- Education and Broadening Participation: INCLUDES
- Innovation Corps
- Emerging Frontiers in Research and Innovation
- Research Centers
- National Nanotechnology Initiative*
- Communications and Cyberinfrastructure

* National Initiatives

Mathematical & Physical Sciences (MPS)

Claudia Rankins
crankins@nsf.gov

Program officer for HBCU-UP program since 2008

Spent 22 years at Hampton University on the faculty and administration

Disciplinary background in theoretical elementary particle physics

Mathematical & Physical Sciences (MPS)

F. Fleming Crim, Assistant Director
Clifford Gabriel, Deputy Assistant Director (Acting)

Office of Multidisciplinary Activities (OMA)
Clark Cooper

Division of Astronomical Sciences (AST)

Jim Ulvestad, Division Director
Pat Knezek, Deputy Division Director

Division of Materials Research (DMR)

Linda Sapochak, Division Director (Acting)
Clark Cooper, Deputy Division Director (Acting)

Division of Physics (PHY)

Denise Caldwell, Division Director
Brad Keister, Deputy Division Director

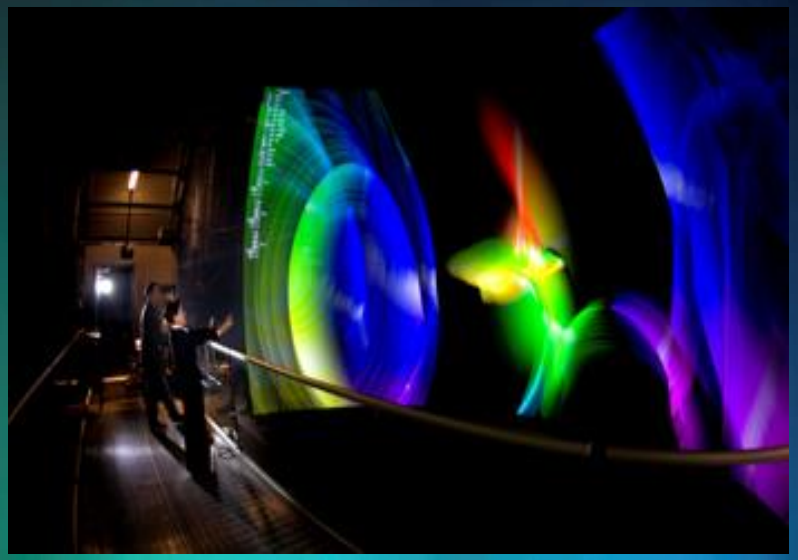
Division of Chemistry (CHE)

Carol Bessel, Division Director (Acting)
Timothy Batten, Deputy Division Director (Acting)

Division of Mathematical Sciences (DMS)

Michael Vogelius, Division Director
Tie Luo, Deputy Division Director (Acting)

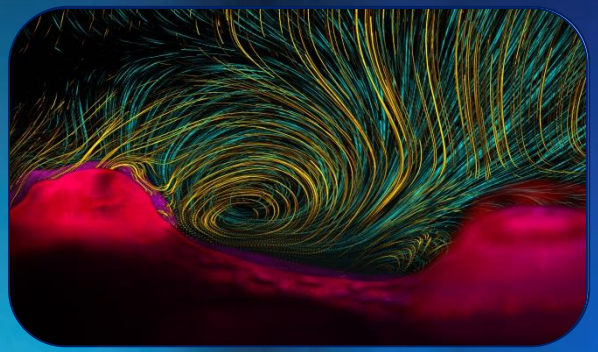
Mathematical & Physical Sciences (MPS)

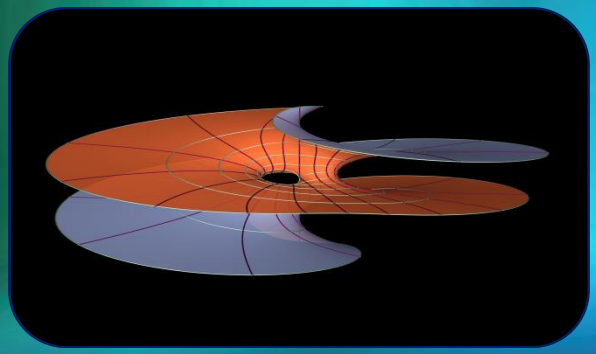


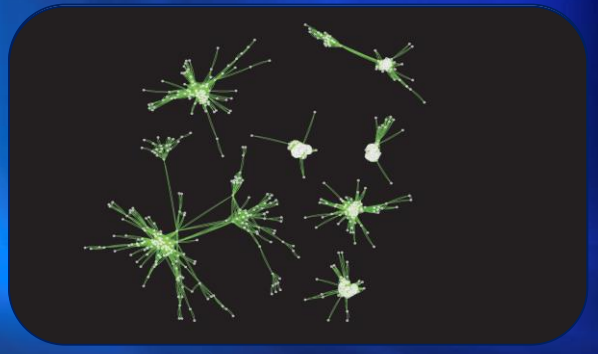
Emphasis Areas

- Physical sciences at the nanoscale
- Advances in optics and photonics
- Materials by design
- Physics of the universe
- World-class, shared-use Facilities
- Quantum information science
- Complex systems (multi-scale, emergent phenomena)
- Innovations at the Nexus of Food, Energy and Water Systems
- Sustainability (energy, environment, climate)
- Interfaces between the mathematical, physical, & life sciences

The NSF Directorates and Offices







Social, Behavioral, & Economic Science (SBE)

Laura L. Namy
Division of Developmental and Learning Sciences
lnamy@nsf.gov

NSF Representative, White House Social & Behavioral Sciences Team

Faculty member at Emory University
- -Professor in Psychology
- -Core Faculty in Linguistics
- -Associate Director, Center for Mind, Brain and Culture

Social, Behavioral & Economic Sciences

Fay Lomax Cook, Assistant Director
Kellina Craig-Henderson, Deputy Assistant Director

SBE Office of Multidisciplinary Activities (SMA)

Behavioral and Cognitive Sciences (BCS)

Howard Nusbaum, Division Director
Amber Story, Deputy Division Director

- Archeology and Archaeometry
- Biological Anthropology
- Cultural Anthropology
- Geography and Spatial Sciences
- Cognitive Neuroscience
- Developmental and Learning Sciences
- Documenting Endangered Languages
- Linguistics
- Perception, Action & Cognition
- Social Psychology

Social and Economic Sciences (SES)

Alan Tomkins, Acting Division Director
Kay Meyer, Acting Deputy Division Director

- Decision Risk and Management Sciences
- Economics
- Law and Social Sciences
- Methodology, Measurement, and Statistics
- Political Science
- Science of Organizations
- Science, Technology, and Society
- Secure and Trustworthy Cyberspace
- Sociology

National Center for Science and Engineering Statistics (NCSES)

John Gawalt, Division Director
Jeri Mulrow, Deputy Division Director

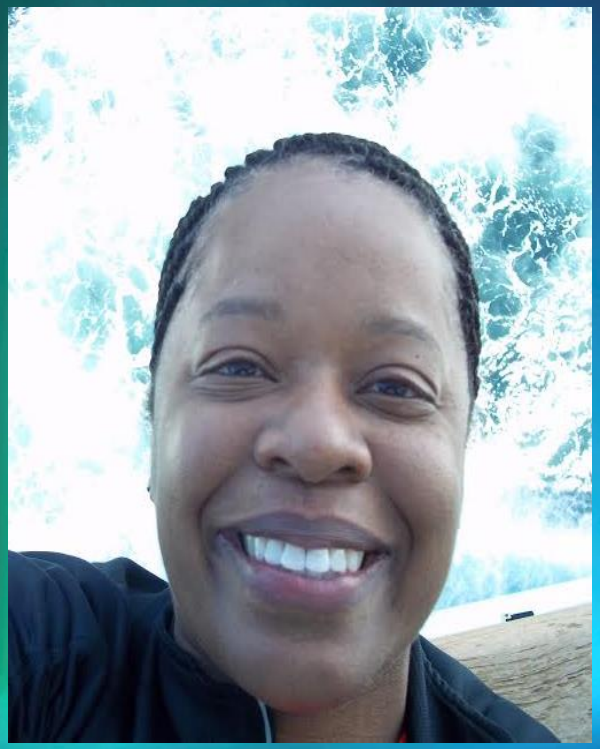
- Science of Learning
- Science of Science and innovation Policy
- Interdisciplinary Behavioral and Social Sciences
- Resource Implementation for Data Intensive Research in SBE

SBE-Related Cross-Directorate Initiatives

Science of Broadening Participation & INCLUDES
Understanding the Brain
Forensic Sciences
Big Data
Coupled Natural and Human Systems
Interdependent Infrastructure Systems and Processes
Food, Energy and Water Systems

Budget, Finance & Award Management (BFA)

Samantha Hunter
Policy Office, Institution & Award Support
shunter@nsf.gov

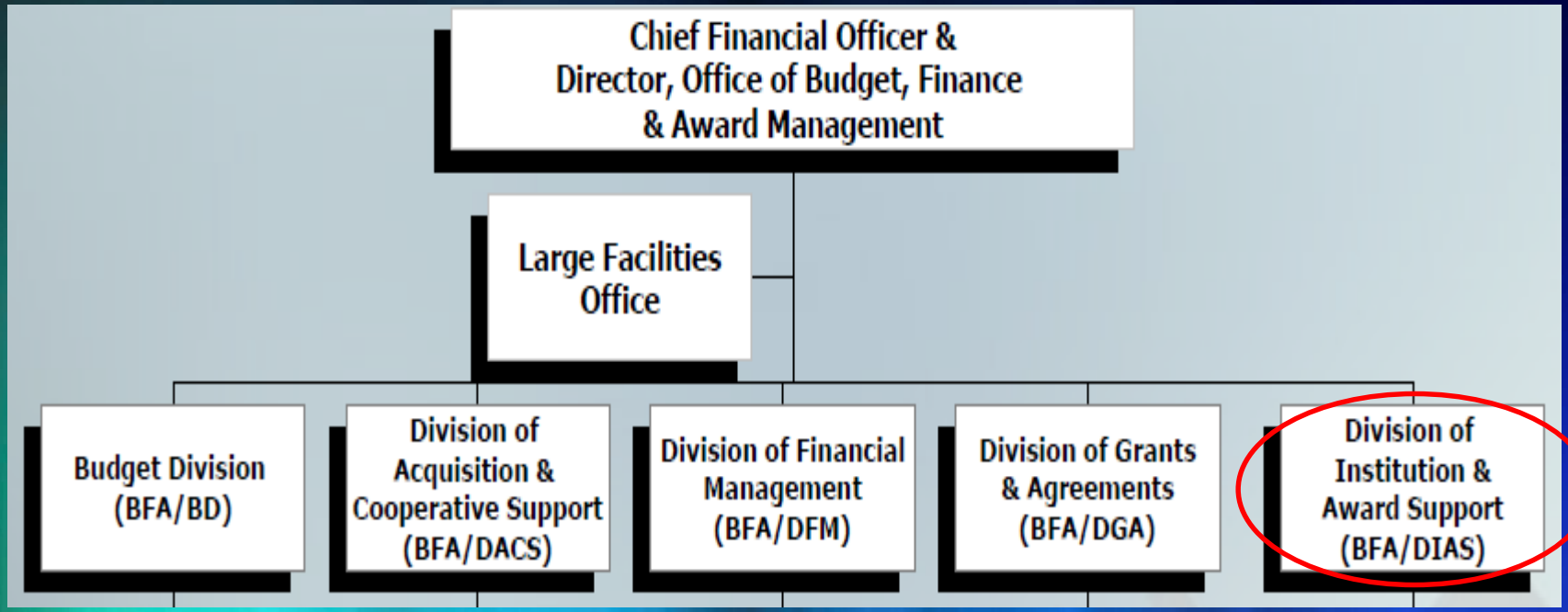


Grant Policy Specialist who interprets and communicates proposal and award policies and procedures to NSF staff and the external community

Primary responsibility for the *Award & Administration Guide* (post award section of the *Proposal & Award Policies & Procedures Guide*)

Policy Office website and sections of www.nsf.gov

Budget, Finance & Award Management (BFA)

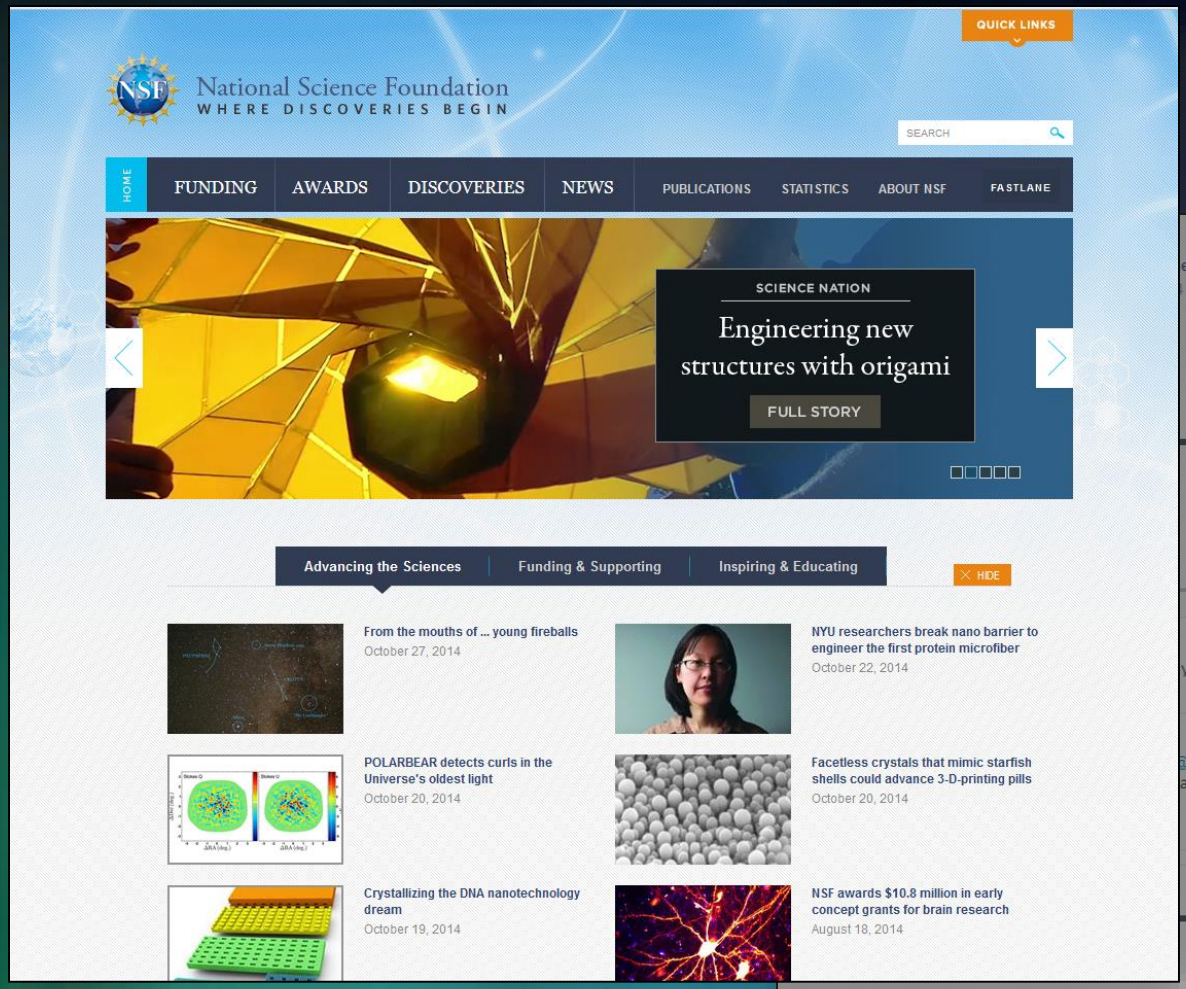


Questions?

Break

Getting Started
The Essentials

www.NSF.gov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Inspiring & Educating
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From the mouths of ... young fireballs
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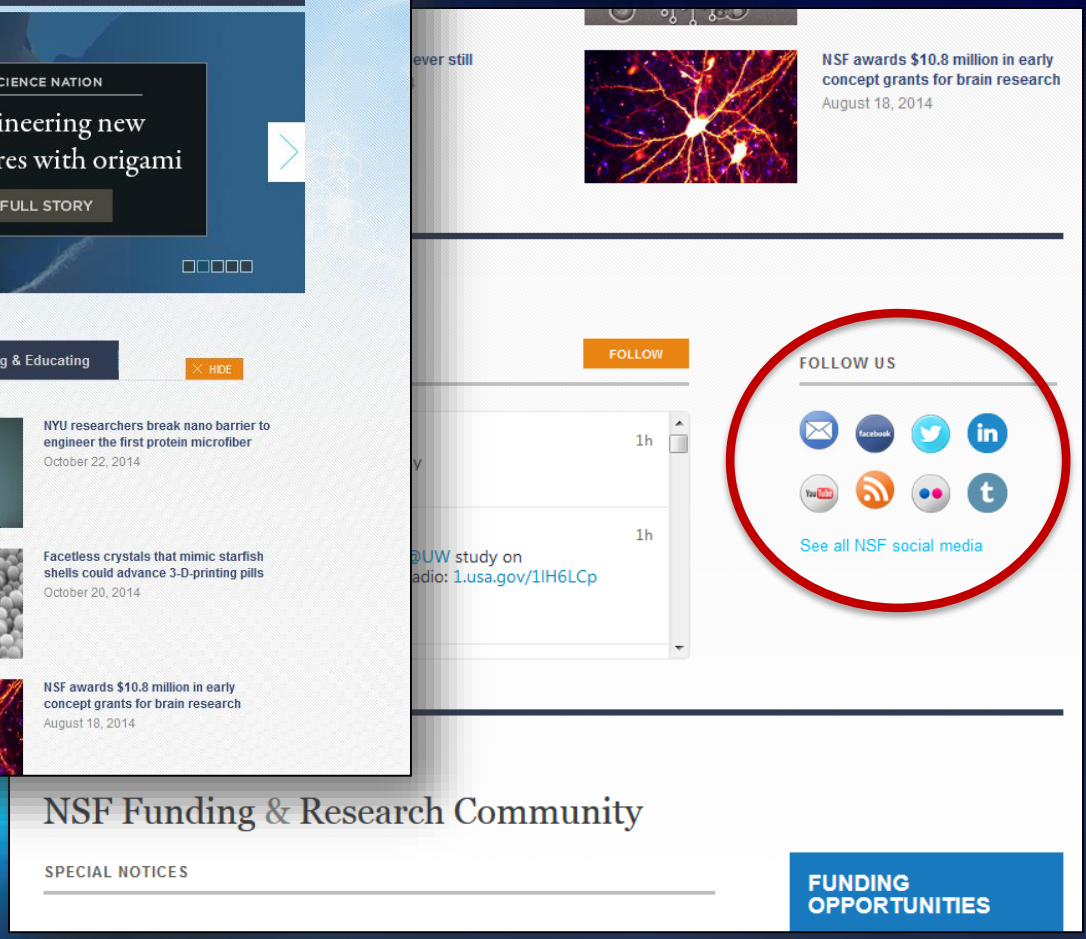
NYU researchers break nano barrier to engineer the first protein microfiber
October 22, 2014
POLARBEAR detects curls in the Universe's oldest light
October 20, 2014
Facetless crystals that mimic starfish shells could advance 3-D-printing pills
October 20, 2014
Crystallizing the DNA nanotechnology dream
October 19, 2014
NSF awards $10.8 million in early concept grants for brain research
August 18, 2014


ever still
NSF awards $10.8 million in early concept grants for brain research
August 18, 2014
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FOLLOW US
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NSF Funding & Research Community
SPECIAL NOTICES
FUNDING OPPORTUNITIES

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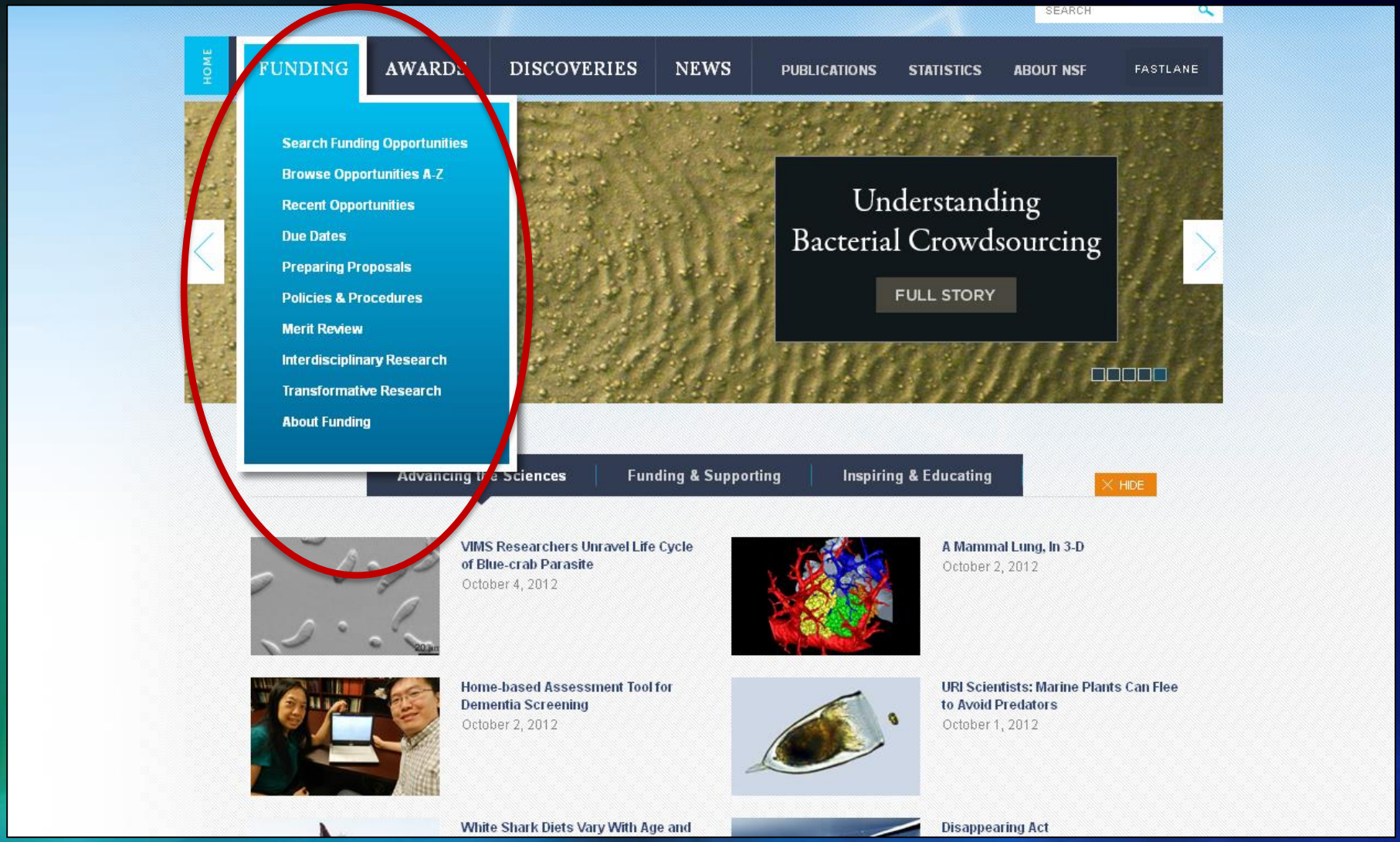

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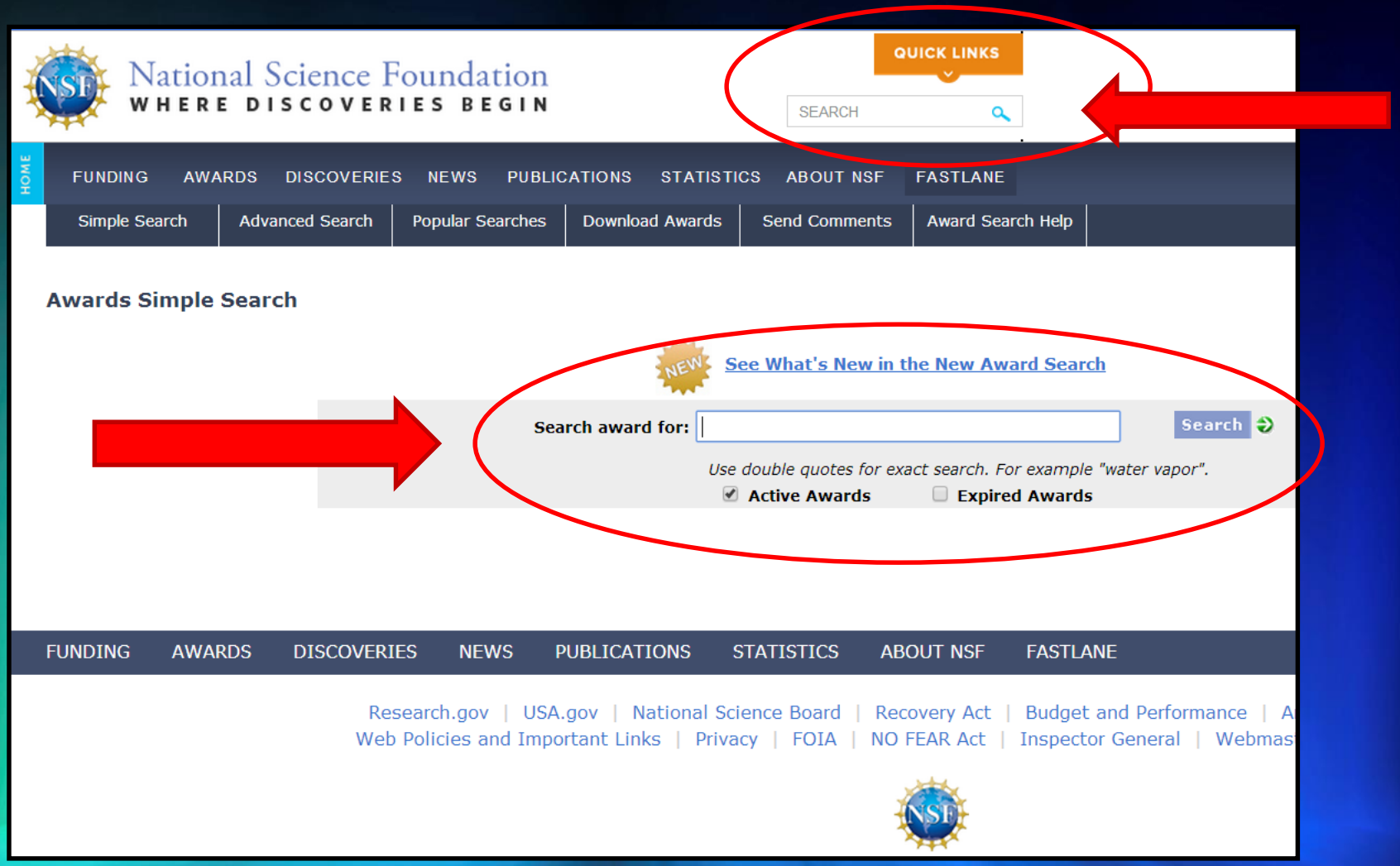

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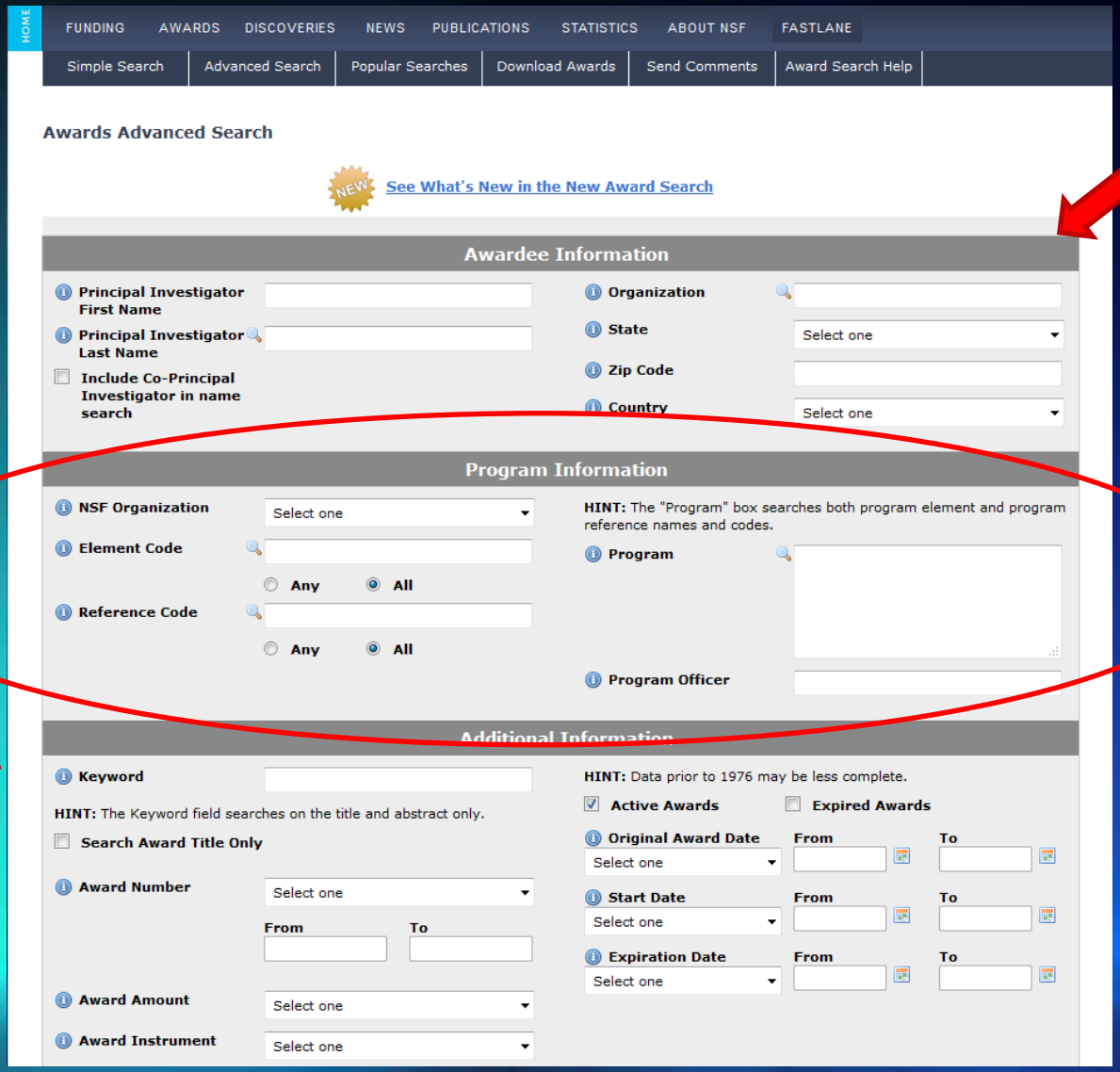


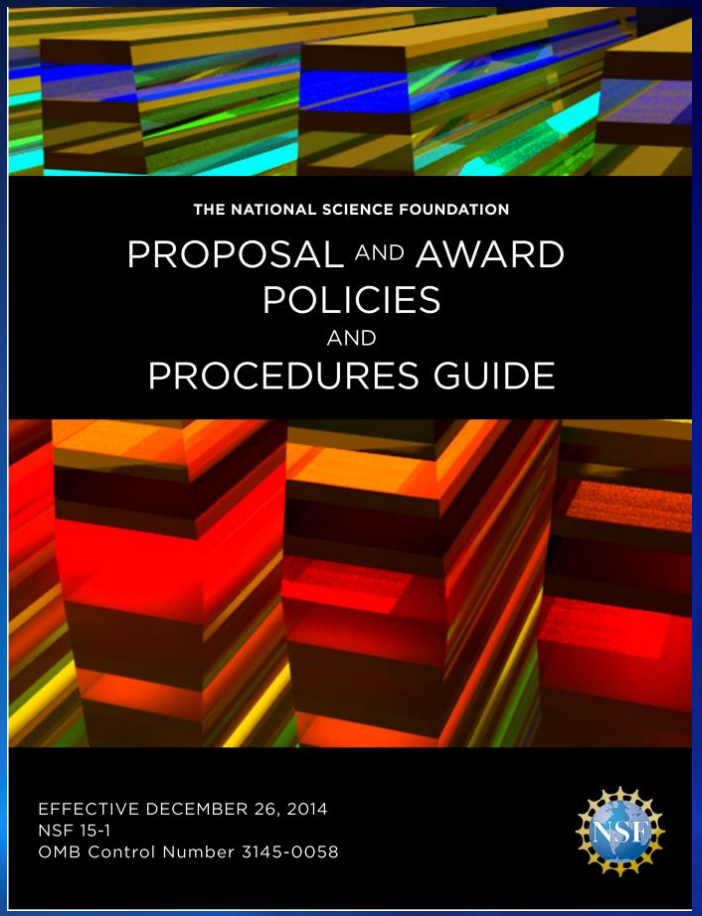
Additional Information on Resources

Join Directorate Specific Listserves!

Use Grants.gov's search feature

What is the Proposal & Award Policies & Procedures Guide?

The Proposal and Award Policies and Procedures Guide (PAPPG) contains documents relating to NSF's proposal and award process. It has been designed for use by both our customer community and NSF staff and consists of two parts:



Types of Funding Opportunities

Program Descriptions	Proposals for a **Program Description** must follow the instructions in the GPG.
Program Announcements	Proposals for a **Program Announcement** must follow the instructions in the GPG.
Program Solicitations	Proposals must follow the instructions in the **Program Solicitation**; the instructions in the GPG apply unless otherwise stated in the solicitation.
Dear Colleague Letters	**Dear Colleague Letters** are notifications of opportunities or special competitions for supplements to existing NSF awards.

Navigating a Program Description

Division of Mathematical Sciences

Algebra and Number Theory

CONTACTS

Name	Email	Phone	Room
Tie Luo	tluo@nsf.gov	(703) 292-8448	1025 N
J. Matthew Douglass	mdouglas@nsf.gov	(703) 292-2467	1025 N
Andrew Pollington	adpollin@nsf.gov	(703) 292-4878	1025 N
Victoria Powers	vpowers@nsf.gov	(703) 292-2113	1025 N

PROGRAM GUIDELINES

Apply to PD 10-1264 as follows:

For full proposals submitted via FastLane: standard *Grant Proposal Guide* proposal preparation guidelines apply.
For full proposals submitted via Grants.gov: the *NSF Grants.gov Application Guide; A Guide for the Preparation and Submission of NSF Applications via Grants.gov Guidelines* applies. (Note: The *NSF Grants.gov Application Guide* is available on the Grants.gov website and on the NSF website at: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=grantsgovguide)

Important Information for Proposers

A revised version of the *NSF Proposal & Award Policies & Procedures Guide* (PAPPG) (NSF 15-1), is effective for proposals submitted, or due, on or after December 26, 2014. The PAPPG is consistent with, and, implements the new Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance) (2 CFR § 200). Please be advised that the guidelines contained in NSF 15-1 apply to proposals submitted in response to this funding opportunity.

DUE DATES

Full Proposal Target Date: October 9, 2015
Second Friday of October
Second Friday in October, Annually Thereafter

Research proposals (as opposed to conference proposals) are expected to be submitted by the target date. An extension may be granted under unusual extenuating circumstances, provided that approval is obtained from the cognizant Program Director prior to the target date.

SYNOPSIS

The Algebra and Number Theory program supports research in algebra, algebraic and arithmetic geometry, number theory, and representation theory.

Conferences

Principal Investigators should carefully read the program solicitation "Conferences and Workshops in the Mathematical Sciences" (link below) to obtain important information regarding the substance of proposals for conferences, workshops, summer/winter schools, and similar activities.

For conference proposals with budgets not exceeding $50,000, which in accordance with NSF policy can be reviewed internally at NSF, the following target dates are in effect: For an event that will take place at some time prior to October 1 during a given year, the proposal should be submitted in October of the previous year. For an event that will occur in the period October 1 through December 31 of a given year, the proposal should be submitted in May of that year. A conference proposal with a budget request exceeding $50,000 should be submitted roughly seven months before the event is scheduled to take place, in order to allow time for external review.

RELATED PROGRAMS

Focused Research Groups in the Mathematical Sciences
Research Training Groups in the Mathematical Sciences
Faculty Early Career Development Program
Mathematical Sciences Postdoctoral Research Fellowships
NSF Graduate Research Fellowship Program

RELATED URLS

Conferences and Workshops in the Mathematical Sciences

THIS PROGRAM IS PART OF

Disciplinary Research Programs

What Has Been Funded (Recent Awards Made Through This Program, with Abstracts)

Map of Recent Awards Made Through This Program

News

Navigating a Program Solicitation

Enhancing Access to the Radio Spectrum (EARS)

PROGRAM SOLICITATION
NSF 15-550

REPLACES DOCUMENT(S):
NSF 14-529

National Science Foundation

Directorate for Mathematical & Physical Sciences
Division of Astronomical Sciences

Directorate for Engineering
Division of Electrical, Communications and Cyber Systems

Directorate for Computer & Information Science & Engineering
Division of Computer and Network Systems

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

June 02, 2015

IMPORTANT INFORMATION AND REVISION NOTES

Any proposal submitted in response to this solicitation should be submitted in accordance with the revised NSF Proposal & Award Policies & Procedures Guide (PAPPG) (NSF 15-1), which is effective for proposals submitted, or due, on or after December 26, 2014. The PAPPG is consistent with, and, implements the new Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance) (2 CFR § 200).

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:

Enhancing Access to the Radio Spectrum (EARS)
Opportunities for interdisciplinary research that increases the efficiency of the radio spectrum, expanding the access to wireless-enabled services for all Americans.

Synopsis of Program:

The National Science Foundation's Directorates for Mathematical and Physical Sciences (MPS), Engineering (ENG), and Computer and Information Science and Engineering (CISE) are coordinating efforts to identify bold new concepts with the potential to

Award Information

Anticipated Type of Award: Standard Grant

Estimated Number of Awards: 20 to 25

Each proposal may request up to $750,000 in total funding over a period of up to three years.

Anticipated Funding Amount: $15,000,000

Eligibility Information

Who May Submit Proposals:

Proposals may only be submitted by the following:

- Universities and Colleges - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in, the US acting on behalf of their faculty members. Such organizations also are referred to as academic institutions.
- Non-profit, non-academic organizations: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities.

Who May Serve as PI:

There are no restrictions or limits.

Limit on Number of Proposals per Organization:

There are no restrictions or limits.

Limit on Number of Proposals per PI or Co-PI:

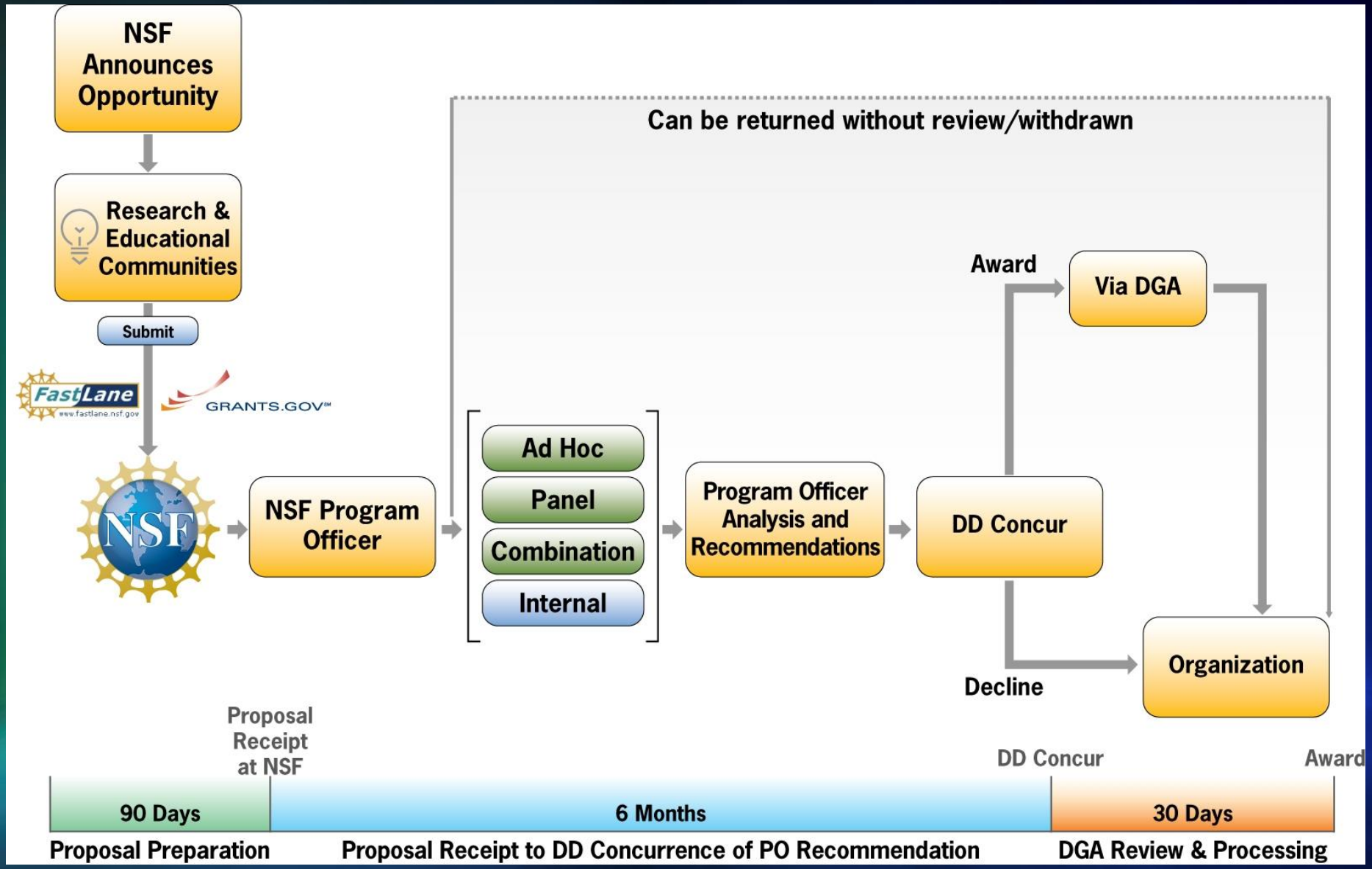
A proposer may be a Principal Investigator (PI) or co-PI on up to two proposals.

Proposal Preparation and Submission Instructions

A. Proposal Preparation Instructions

- **Letters of Intent:** Not required
- **Preliminary Proposal Submission:** Not required
- **Full Proposals:**
  - Full Proposals submitted via FastLane: NSF Proposal and Award Policies and Procedures Guide, Part I: Grant Proposal Guide (GPG) Guidelines apply. The complete

NSF Proposal & Award Process Timeline



Types of Proposal Submissions

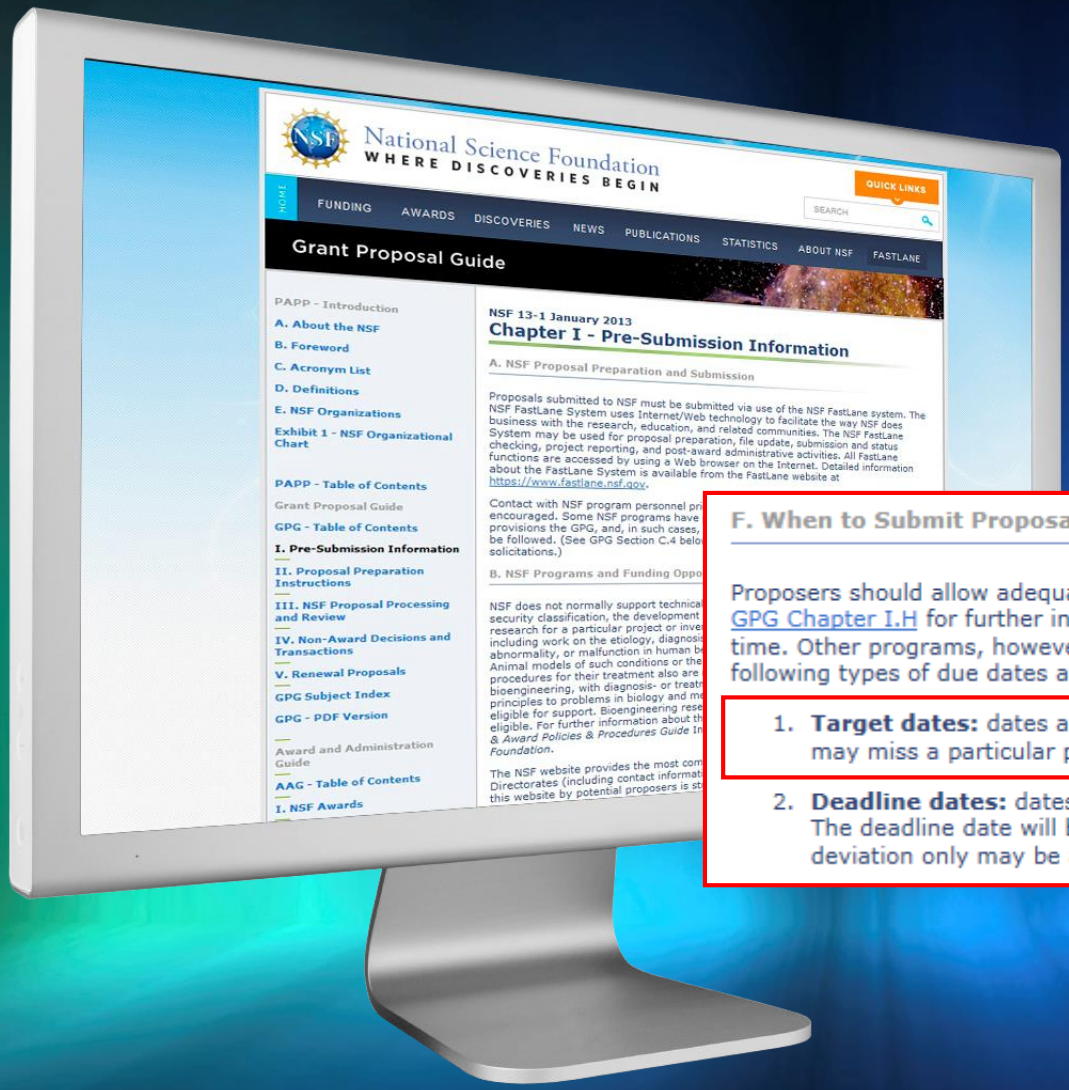
No Deadlines – Proposals may be submitted at any time

F. When to Submit Proposals

Proposers should allow adequate time for NSF review and processing of proposals (see GPG Chapter I.H for further information). Many NSF programs accept proposals at any time. Other programs, however, establish due dates for submission of proposals. The following types of due dates are utilized by NSF:

1. **Target dates:** dates after which proposals will still be accepted, although they may miss a particular panel or committee meeting.
2. **Deadline dates:** dates after which proposals be returned without review by NSF. The deadline date will be waived only in extenuating circumstances. Such a deviation only may be authorized in accordance with GPG Chapter II.A.

Types of Proposal Submissions



Target Dates –
Talk to the Program Office if you think you might miss the date

F. When to Submit Proposals

Proposers should allow adequate time for NSF review and processing of proposals (see GPG Chapter I.H for further information). Many NSF programs accept proposals at any time. Other programs, however, establish due dates for submission of proposals. The following types of due dates are utilized by NSF:

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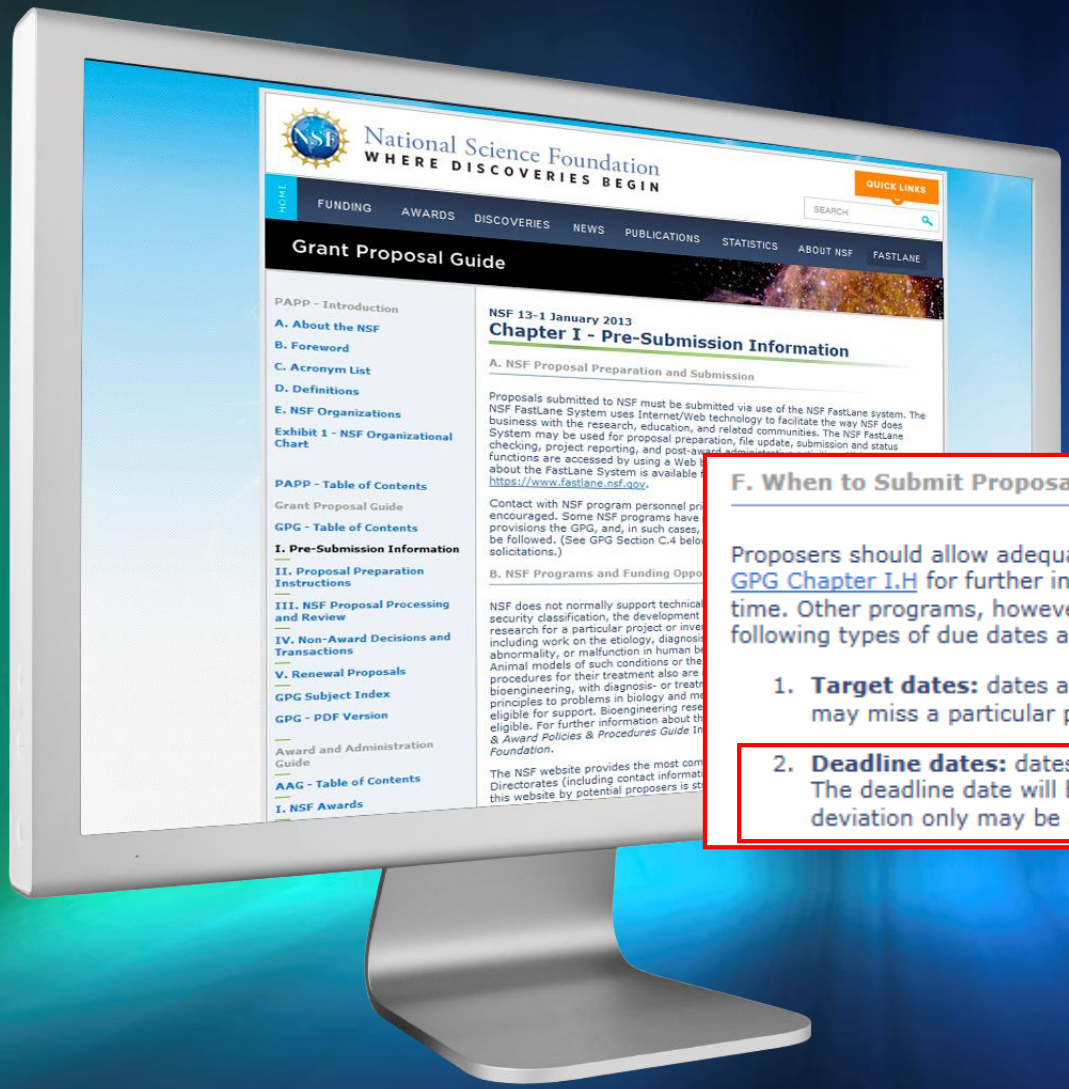
Types of Proposal Submissions



Deadline Dates – Proposals will not be accepted after this date and time (5 pm submitter's local time)

F. When to Submit Proposals

Proposers should allow adequate time for NSF review and processing of proposals (see GPG Chapter I.H for further information). Many NSF programs accept proposals at any time. Other programs, however, establish due dates for submission of proposals. The following types of due dates are utilized by NSF:

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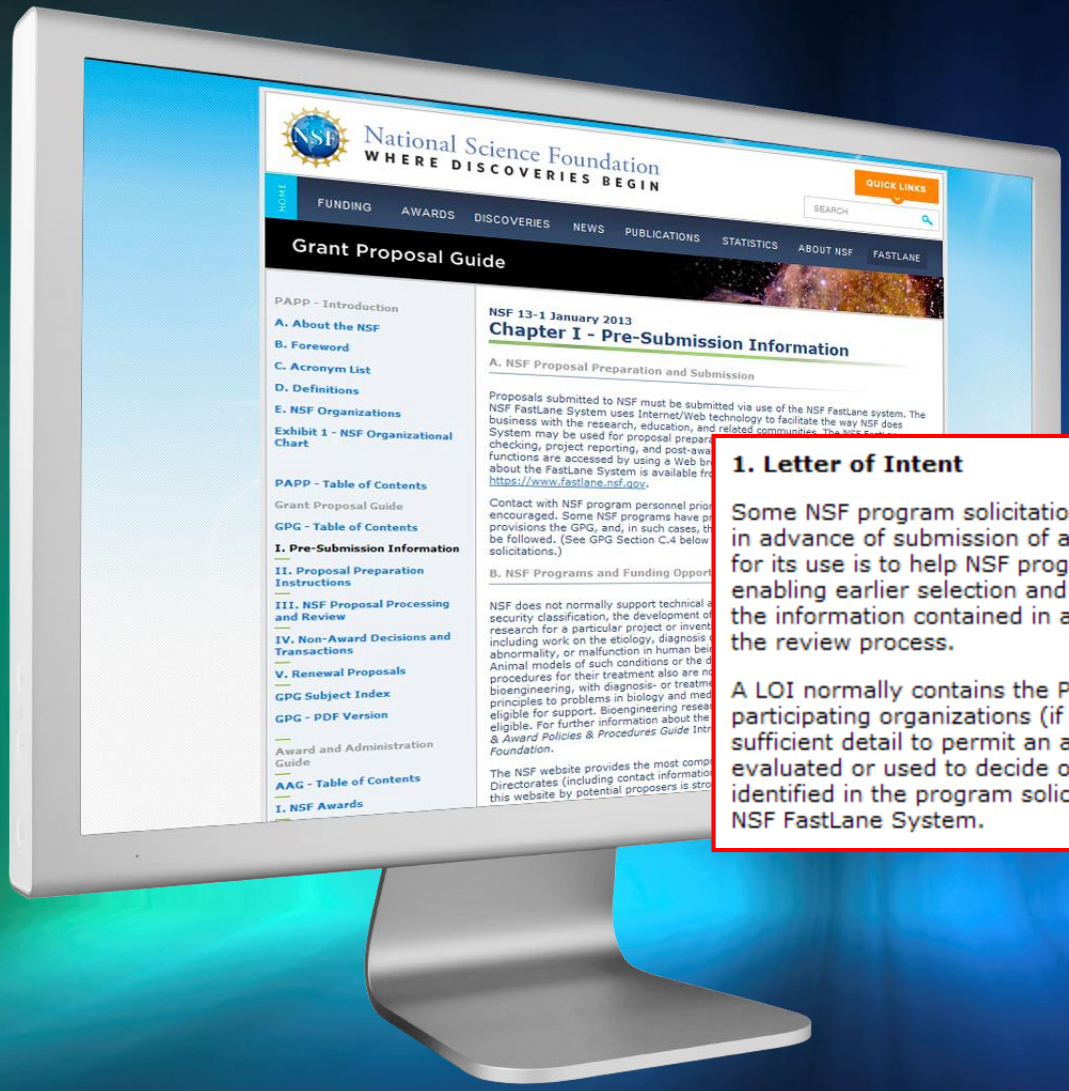
Types of Proposal Submissions

Submission Windows – Closing date converts to a deadline date

3. **Submission windows:** designated periods of time during which proposals will be accepted for review by NSF. It is NSF's policy that the end date of a submission window converts to, and is subject to, the same policies as a deadline date.

Types of Proposal Submissions



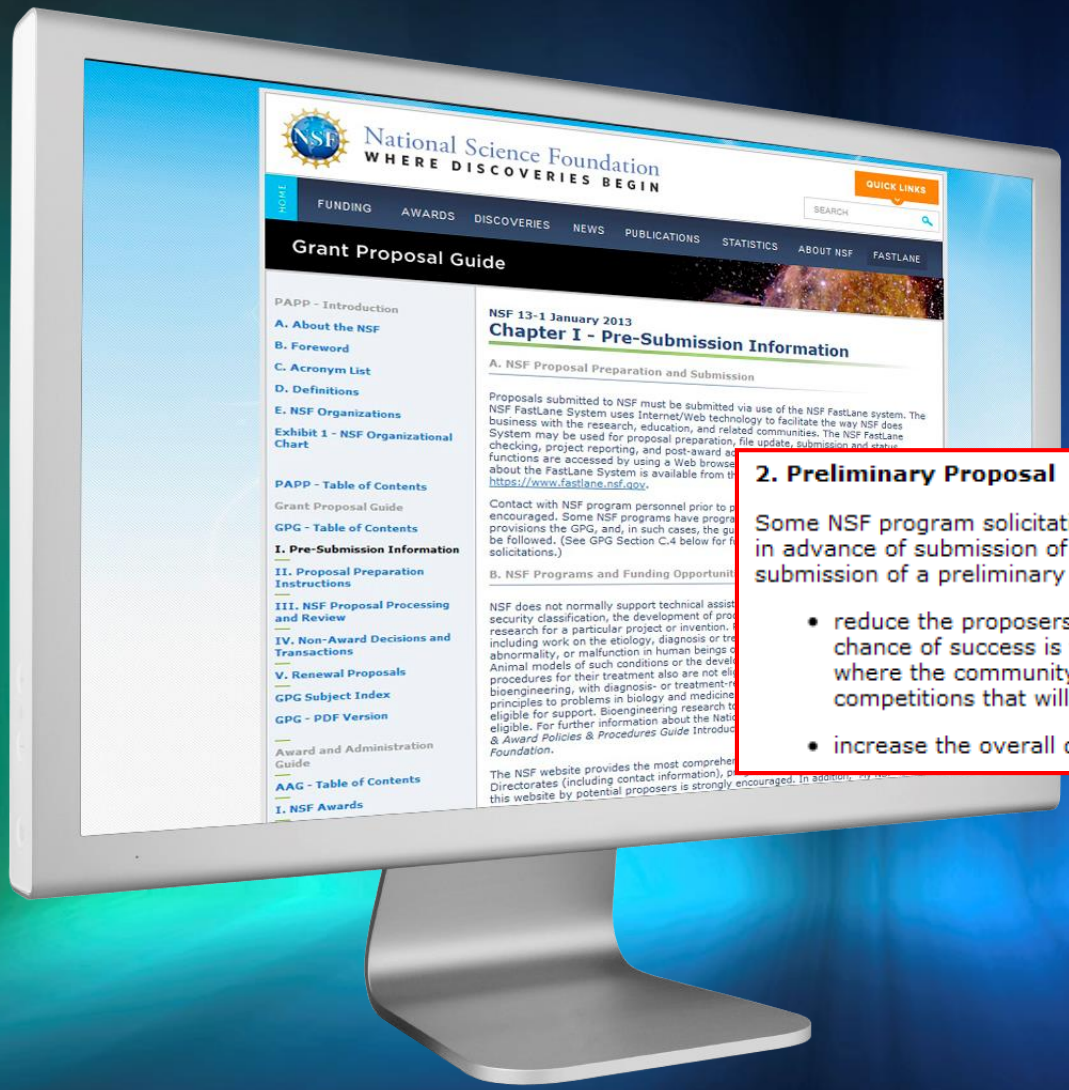
Letters of Intent –
Enables better management of reviewers and panelists

1. Letter of Intent

Some NSF program solicitations require or request submission of a letter of intent (LOI) in advance of submission of a full proposal. A LOI is not binding. The predominant reason for its use is to help NSF program staff to gauge the size and range of the competition, enabling earlier selection and better management of reviewers and panelists. In addition, the information contained in a LOI is used to help avoid potential conflicts of interest in the review process.

A LOI normally contains the PI's and co-PI's names, a proposed title, a list of possible participating organizations (if applicable), and a synopsis that describes the work in sufficient detail to permit an appropriate selection of reviewers. A LOI is not externally evaluated or used to decide on funding. The requirement to submit a LOI will be identified in the program solicitation, and such letters are submitted electronically via the NSF FastLane System.

Types of Proposal Submissions



Preliminary Proposals – Sometimes required, sometimes optional

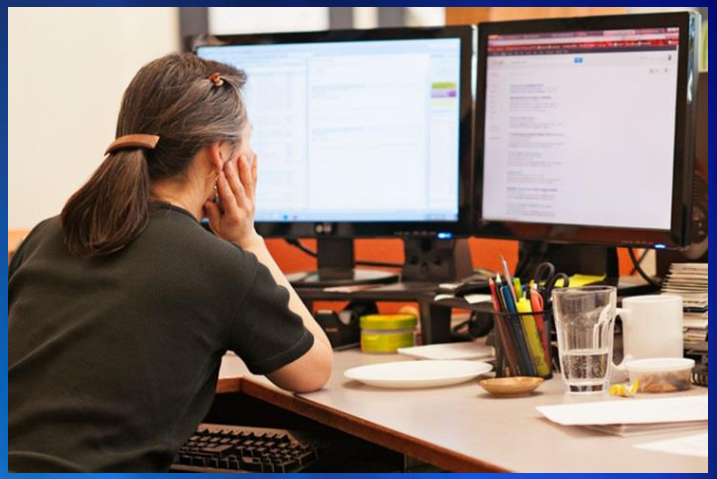
2. Preliminary Proposal

Some NSF program solicitations require or request submission of a preliminary proposal in advance of submission of a full proposal. The two predominant reasons for requiring submission of a preliminary proposal are to:

- reduce the proposers' unnecessary effort in proposal preparation when the chance of success is very small. This is particularly true of exploratory initiatives where the community senses that a major new direction is being identified, or competitions that will result in a small number of actual awards; and
- increase the overall quality of the full submission.

Questions on Funding Opportunities?

Contact your NSF Program Officer



Work with your organization's sponsored projects office

Ask Early, Ask Often

policy@nsf.gov

Things to Consider Before Applying…

Five Key Elements

1. Great idea
2. Fit with current research expertise and career development plans
3. Ability to devise a strategy including benchmarks, timelines, and metrics
4. Adequate resources to accomplish your project
5. Assessment Plan

Developing your Proposal

Key Questions for Prospective Investigators

- What has already been done?
- What do you intend to do?
- Why is the work important?
- How is the work unique or cutting edge?
- How are you going to do the work?
- Do you have the right team?

Proposal Development Strategies:

What Do You Need Besides $???

- Prepare to do the project
  - Realistically assess needs
  - Determine available resources
  - Develop preliminary data
  - Present to colleagues/mentors/students
- Determine possible funding sources (NSF may not be the right or the only one)

Proposal Development Strategies:

What details should you glean from the solicitation?

- Overall scope and mission
- Instructions (deviations from the GPG)
- How your proposed project fits with the solicitation
- Review procedures and criteria
- Deadlines

Proposal Development Strategies:

Who Should You Talk To?
How Should You Contact Them?

NSF Program Officer

- Your proposed project
- Clarifications on specific program requirements/limitations
- Current program patterns

Your organization's sponsored projects office

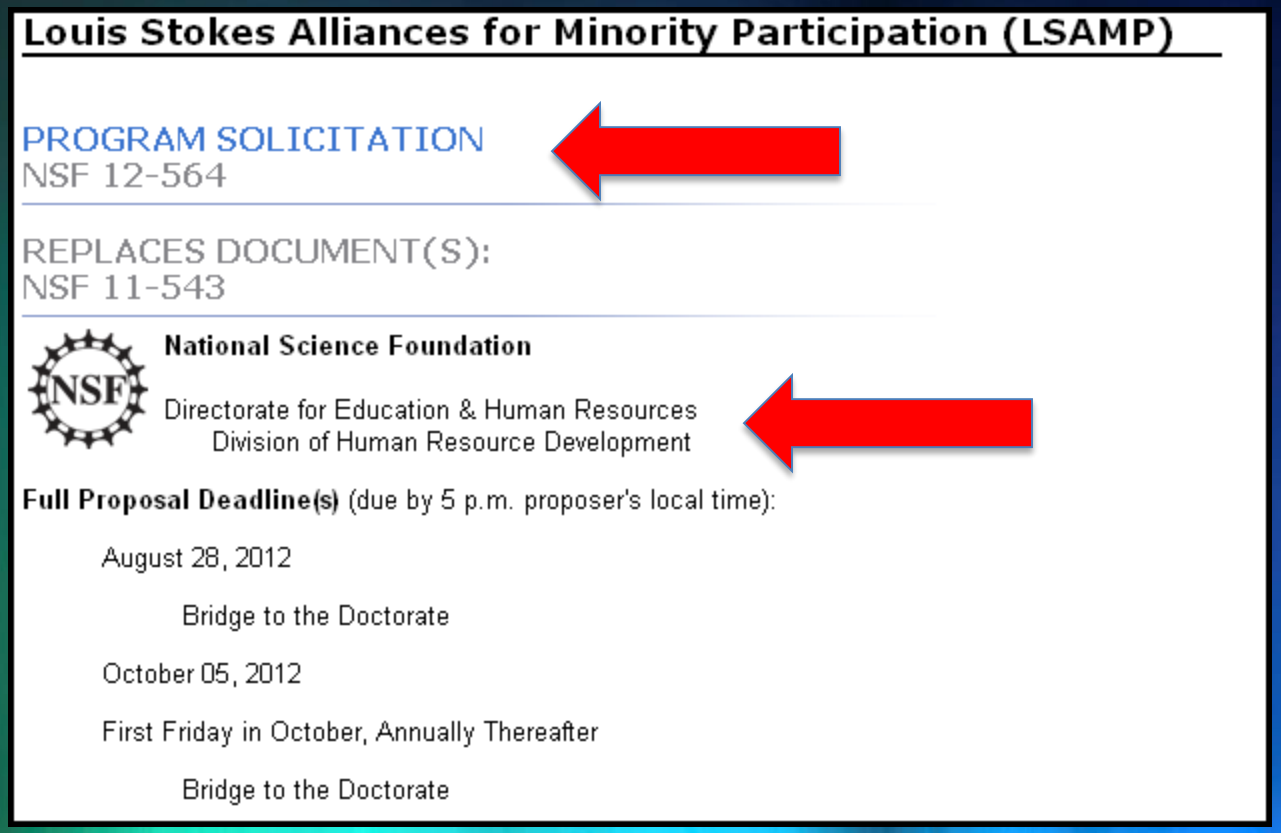
- University guidelines for applications
- Institutional Review Board "IRB" Approvals
  (IACUC approvals, etc.)

So You Want to Write a Proposal…

What to Look for in a Program Announcement or Solicitation

- Goals
- Eligibility Requirements
- Special proposal preparation and/or award requirements
- Review Criteria

Sample Cover Page of a Solicitation



Louis Stokes Alliances for Minority Participation (LSAMP)

PROGRAM SOLICITATION
NSF 12-564

REPLACES DOCUMENT(S):
NSF 11-543

National Science Foundation

Directorate for Education & Human Resources
Division of Human Resource Development

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

August 28, 2012

Bridge to the Doctorate

October 05, 2012

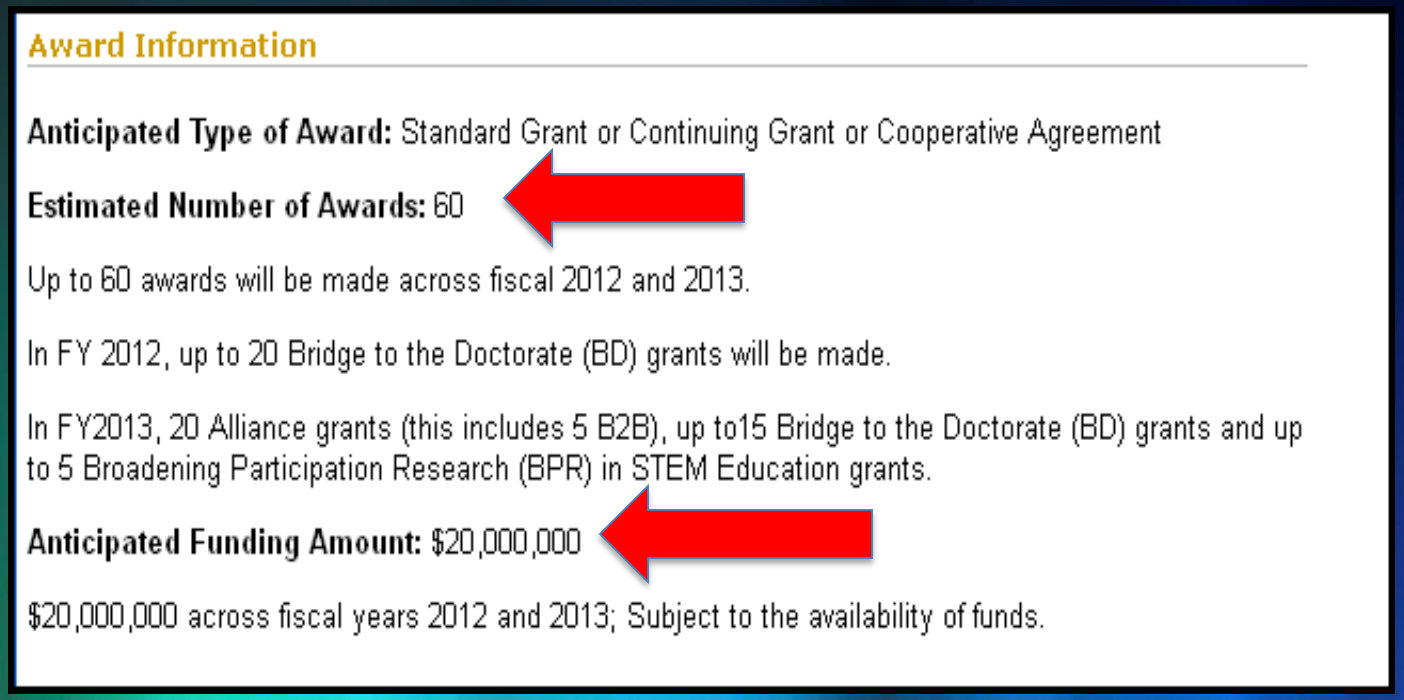
First Friday in October, Annually Thereafter

Bridge to the Doctorate

Program Solicitation Number

NSF Directorates and Offices providing funding for this opportunity

Sample Cover Page of a Solicitation



Award Information

Anticipated Type of Award: Standard Grant or Continuing Grant or Cooperative Agreement

Estimated Number of Awards: 60

Up to 60 awards will be made across fiscal 2012 and 2013.

In FY 2012, up to 20 Bridge to the Doctorate (BD) grants will be made.

In FY2013, 20 Alliance grants (this includes 5 B2B), up to15 Bridge to the Doctorate (BD) grants and up to 5 Broadening Participation Research (BPR) in STEM Education grants.

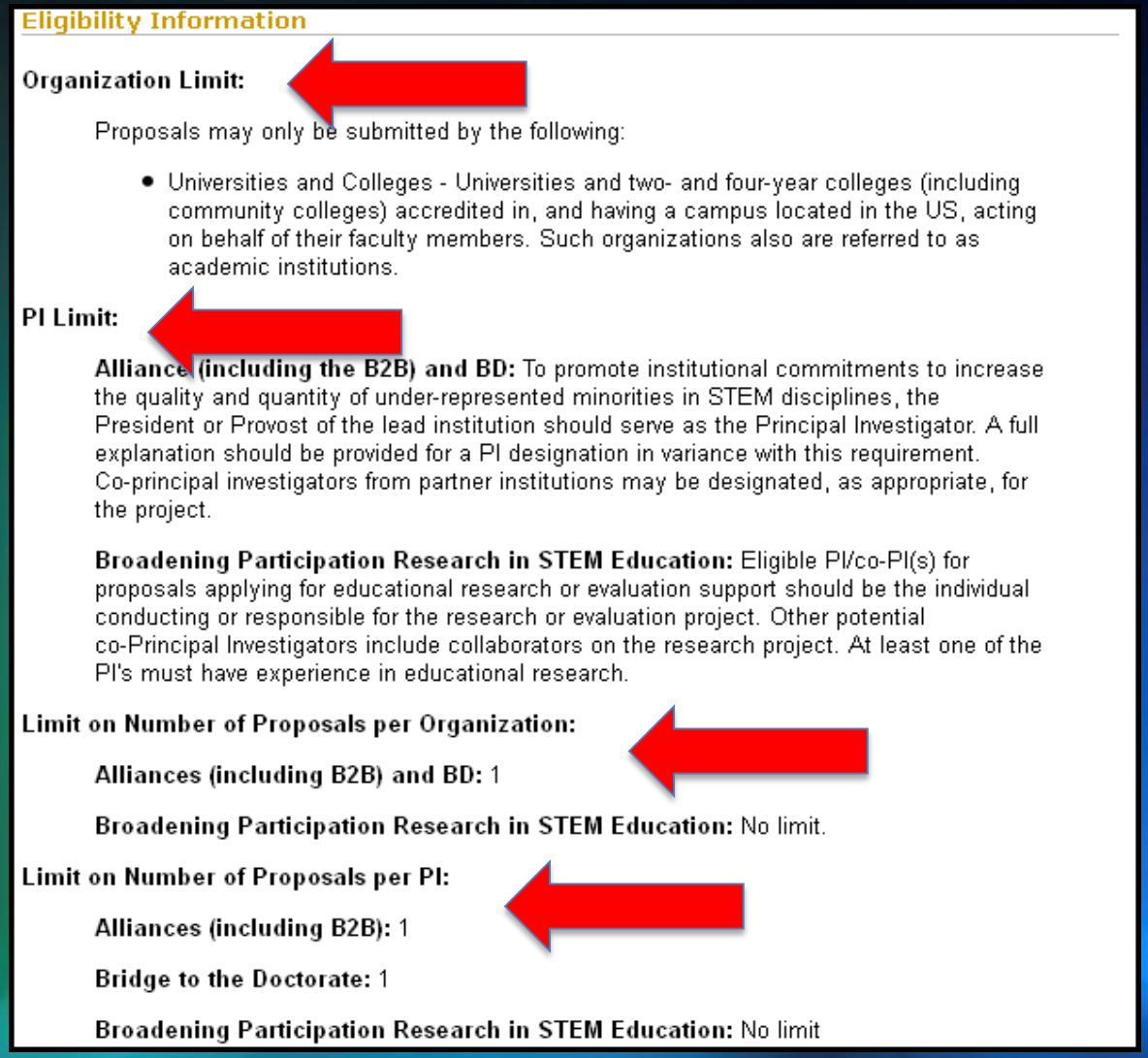
Anticipated Funding Amount: $20,000,000

$20,000,000 across fiscal years 2012 and 2013; Subject to the availability of funds.

Expected number of awards funded by the program per year

Expected funds available to the program per year

Sample Cover Page of a Solicitation



Eligibility Information

Organization Limit:

Proposals may only be submitted by the following:

- Universities and Colleges - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members. Such organizations also are referred to as academic institutions.

PI Limit:

Alliances (including the B2B) and BD: To promote institutional commitments to increase the quality and quantity of under-represented minorities in STEM disciplines, the President or Provost of the lead institution should serve as the Principal Investigator. A full explanation should be provided for a PI designation in variance with this requirement. Co-principal investigators from partner institutions may be designated, as appropriate, for the project.

Broadening Participation Research in STEM Education: Eligible PI/co-PI(s) for proposals applying for educational research or evaluation support should be the individual conducting or responsible for the research or evaluation project. Other potential co-Principal Investigators include collaborators on the research project. At least one of the PI's must have experience in educational research.

Limit on Number of Proposals per Organization:

Alliances (including B2B) and BD: 1

Broadening Participation Research in STEM Education: No limit.

Limit on Number of Proposals per PI:

Alliances (including B2B): 1

Bridge to the Doctorate: 1

Broadening Participation Research in STEM Education: No limit

Eligibility information for institutions/PIs submitting proposals

Parts of a Proposal

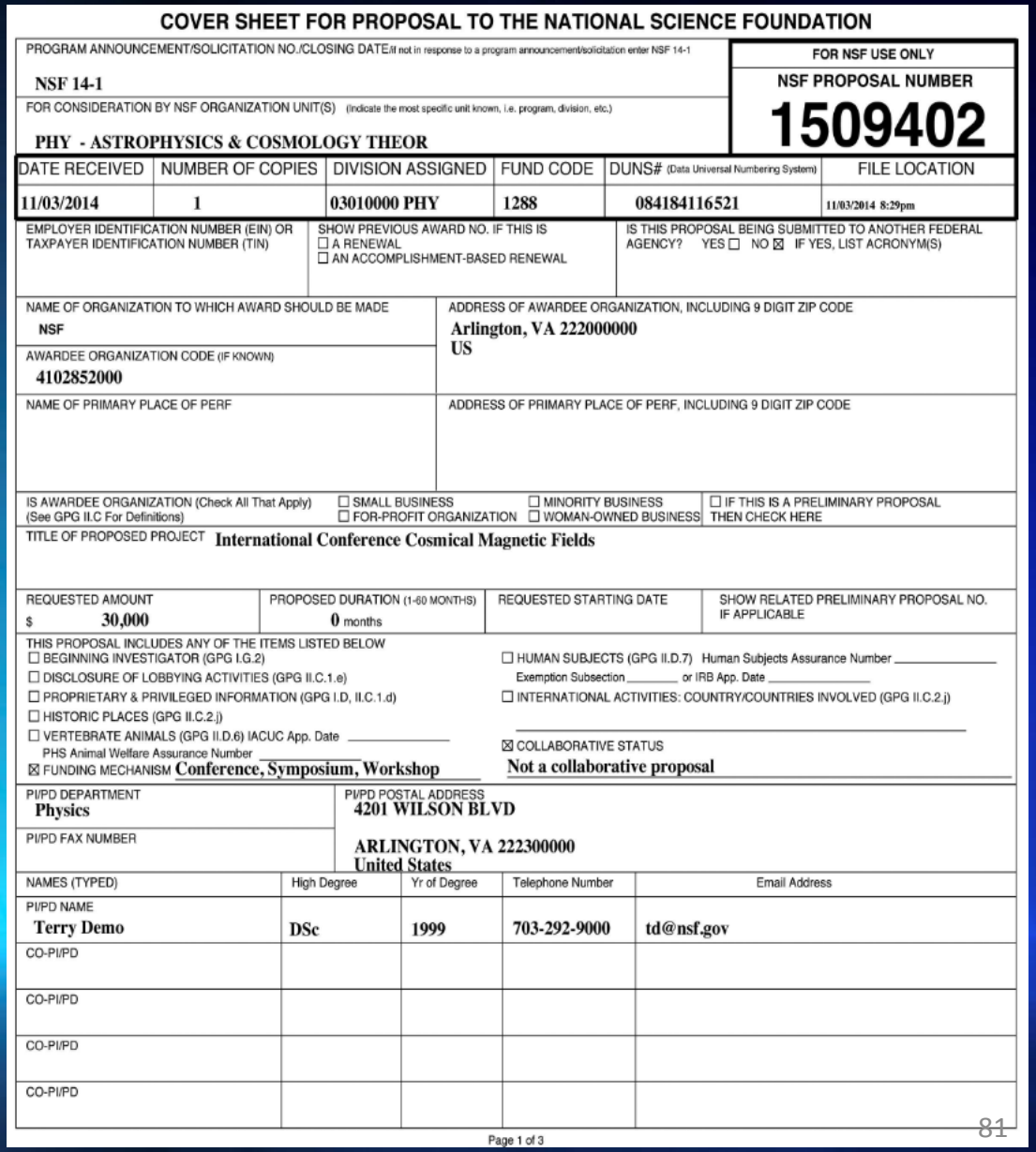
NSF PROPOSAL INGREDIENTS

- ❑ Cover Page
- ❑ Project Summary (1 page)
- ❑ Table of Contents (auto-generated)
- ❑ Project Description (15 pages)
- ❑ References Cited
- ❑ Biographical Sketches (for all senior personnel)
- ❑ Budget
- ❑ Current and Pending Support
- ❑ Facilities, Equipment, and Other Resources
- ❑ Post-doctoral mentoring plan (if applicable)
- ❑ Data management plan
- ❑ Supplementary Documentation (if applicable)

Parts of an NSF Proposal

Cover Sheet

Many of the boxes on the cover sheet are electronically prefilled as part of the FastLane login process.



COVER SHEET FOR PROPOSAL TO THE NATIONAL SCIENCE FOUNDATION

PROGRAM ANNOUNCEMENT/SOLICITATION NO./CLOSING DATE (If not in response to a program announcement/solicitation enter NSF 14-1)
NSF 14-1

FOR NSF USE ONLY
NSF PROPOSAL NUMBER
1509402

FOR CONSIDERATION BY NSF ORGANIZATION UNIT(S) (Indicate the most specific unit known, i.e. program, division, etc.)
PHY - ASTROPHYSICS & COSMOLOGY THEOR

DATE RECEIVED	NUMBER OF COPIES	DIVISION ASSIGNED	FUND CODE	DUNS# (Data Universal Numbering System)	FILE LOCATION
11/03/2014	1	03010000 PHY	1288	084184116521	11/03/2014 8:29pm

EMPLOYER IDENTIFICATION NUMBER (EIN) OR TAXPAYER IDENTIFICATION NUMBER (TIN)

SHOW PREVIOUS AWARD NO. IF THIS IS
☐ A RENEWAL
☐ AN ACCOMPLISHMENT-BASED RENEWAL

IS THIS PROPOSAL BEING SUBMITTED TO ANOTHER FEDERAL AGENCY? YES ☐ NO ☒ IF YES, LIST ACRONYM(S)

NAME OF ORGANIZATION TO WHICH AWARD SHOULD BE MADE
NSF

ADDRESS OF AWARDEE ORGANIZATION, INCLUDING 9 DIGIT ZIP CODE
Arlington, VA 222000000
US

AWARDEE ORGANIZATION CODE (IF KNOWN)
4102852000

NAME OF PRIMARY PLACE OF PERF

ADDRESS OF PRIMARY PLACE OF PERF, INCLUDING 9 DIGIT ZIP CODE

IS AWARDEE ORGANIZATION (Check All That Apply) (See GPG II.C For Definitions)
☐ SMALL BUSINESS ☐ MINORITY BUSINESS ☐ FOR-PROFIT ORGANIZATION ☐ WOMAN-OWNED BUSINESS

☐ IF THIS IS A PRELIMINARY PROPOSAL THEN CHECK HERE

TITLE OF PROPOSED PROJECT International Conference Cosmical Magnetic Fields

REQUESTED AMOUNT	PROPOSED DURATION (1-60 MONTHS)	REQUESTED STARTING DATE	SHOW RELATED PRELIMINARY PROPOSAL NO. IF APPLICABLE
$ 30,000	0 months		

THIS PROPOSAL INCLUDES ANY OF THE ITEMS LISTED BELOW
☐ BEGINNING INVESTIGATOR (GPG I.G.2)
☐ DISCLOSURE OF LOBBYING ACTIVITIES (GPG II.C.1.e)
☐ PROPRIETARY & PRIVILEGED INFORMATION (GPG I.D, II.C.1.d)
☐ HISTORIC PLACES (GPG II.C.2.j)
☐ VERTEBRATE ANIMALS (GPG II.D.6) IACUC App. Date
PHS Animal Welfare Assurance Number
☒ FUNDING MECHANISM Conference, Symposium, Workshop
☐ HUMAN SUBJECTS (GPG II.D.7) Human Subjects Assurance Number
Exemption Subsection or IRB App. Date
☐ INTERNATIONAL ACTIVITIES: COUNTRY/COUNTRIES INVOLVED (GPG II.C.2.j)
☒ COLLABORATIVE STATUS
Not a collaborative proposal

PI/PD DEPARTMENT
Physics

PI/PD POSTAL ADDRESS
4201 WILSON BLVD
ARLINGTON, VA 222300000
United States

PI/PD FAX NUMBER

NAMES (TYPED)	High Degree	Yr of Degree	Telephone Number	Email Address
PI/PD NAME Terry Demo	DSc	1999	703-292-9000	td@nsf.gov
CO-PI/PD				
CO-PI/PD				
CO-PI/PD				
CO-PI/PD				

Page 1 of 3

Parts of an NSF Proposal

Project Summary Requirements:

Overview

Statement on Intellectual Merit

Statement of Broader Impacts

Special characters (e.g., formulas) may be uploaded as a PDF

Project Description Addresses:

What you want to do

Why you want to do it

How you plan to do it

How you measure success

What are the benefits

Results from prior NSF support

Parts of an NSF Proposal

A separate section,
***Broader Impacts of the Proposal Work*,**
must be completed

Budgetary Guidelines

Amounts should be:

- **Realistic and reasonable**
- **Well-justified and should establish need**
- **Consistent w/program guidelines in solicitation, GPG, and in Award and Administration Guide (AAG)**

Eligible costs consist of:

- **Personnel**
- **Equipment**
- **Travel**
- **Participant support**
- **Other** (e.g., subawards, consultant and computer services, publications costs)
- **Indirect costs** (as appropriate)

NSF Cost Sharing Policy

Inclusion of *voluntary committed* cost sharing is prohibited in the budget of solicited & unsolicited proposals.

Organizations may, at their own discretion, continue to contribute voluntary uncommitted cost sharing to NSF-sponsored projects as part of the section for Facilities, Equipment, and Other Resources.

Sections of an NSF Proposal

Facilities, Equipment, and Other Resources

Used to assess the adequacy of the organizational resources available to perform the effort proposed. Should not contain quantifiable financial information.

Current and Pending Support

This section of the proposal requires reporting on all current and pending support for ongoing projects and proposals from any funding source.

Special Information and Supplementary Documentation

Letters of support versus letters of commitment

Postdoctoral mentoring plans

Data management plans

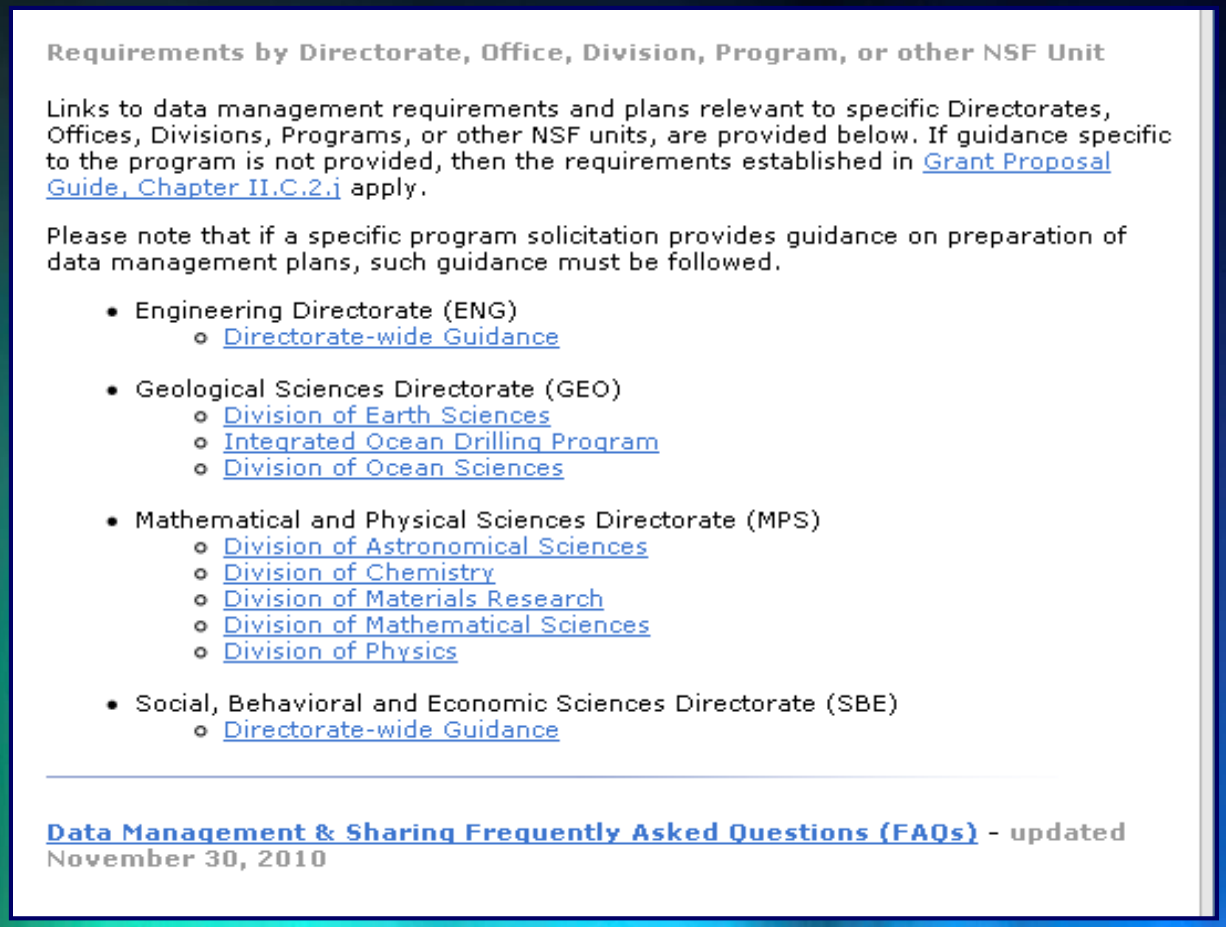
You should alert NSF officials to unusual circumstances that require special handling (i.e. proprietary information)

Solicitations may specify what is and is not allowed to be submitted

Mentoring for Postdoctoral Researchers

- **Explicit description of the mentoring activities**
- **Must include a mentoring plan as a supplementary document (maximum one-page)**
- **For collaborative proposals, lead organization must submit a single mentoring plan for all postdoctoral researchers supported under the entire project.**

Data Management Plan Requirements



Requirements by Directorate, Office, Division, Program, or other NSF Unit

Links to data management requirements and plans relevant to specific Directorates, Offices, Divisions, Programs, or other NSF units, are provided below. If guidance specific to the program is not provided, then the requirements established in Grant Proposal Guide, Chapter II.C.2.j apply.

Please note that if a specific program solicitation provides guidance on preparation of data management plans, such guidance must be followed.

- Engineering Directorate (ENG)
  - Directorate-wide Guidance
- Geological Sciences Directorate (GEO)
  - Division of Earth Sciences
  - Integrated Ocean Drilling Program
  - Division of Ocean Sciences
- Mathematical and Physical Sciences Directorate (MPS)
  - Division of Astronomical Sciences
  - Division of Chemistry
  - Division of Materials Research
  - Division of Mathematical Sciences
  - Division of Physics
- Social, Behavioral and Economic Sciences Directorate (SBE)
  - Directorate-wide Guidance

Data Management & Sharing Frequently Asked Questions (FAQs) - updated November 30, 2010

Requirements may vary by Directorate or Office

nsf.gov/bfa/dias/policy/dmp.jsp

Questions?

Crosscutting & NSF-wide Opportunities

What Is meant by crosscutting?

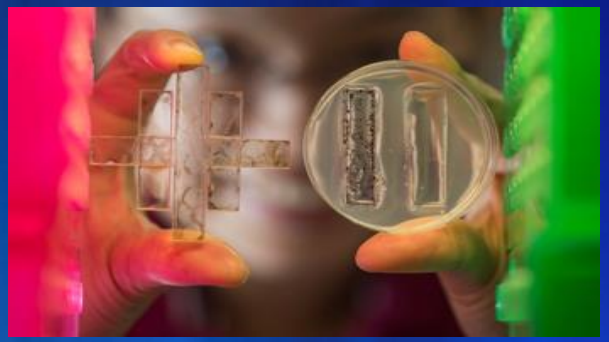
Sponsored by >1 NSF unit….

Cuts across NSF in different ways...

Collaborative with other
U.S. government agencies…

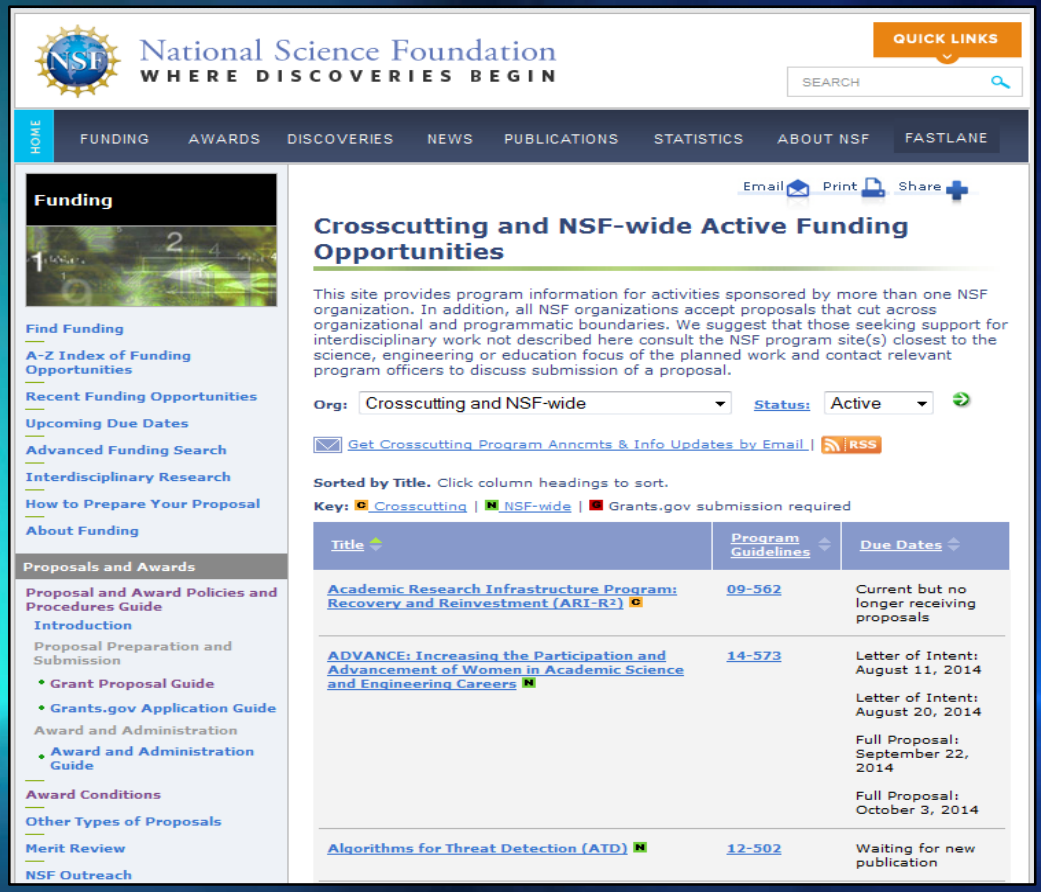
Types of Crosscutting Activities

- International
- Interdisciplinary research – theme-based (e.g., Designing Materials, Hazards and Disasters)
- People-oriented (e.g., ADVANCE, CAREER, REU, Work-Life Balance)
- Infrastructure (e.g., MRI)
- Translational (ICorps, SBIR)
- Institutional, Centers (e.g., IUCRC, STC)



Find Funding for NSFwide and Crosscutting Opportunities

Go to: www.nsf.gov/funding/pgm.list.jsp?type=xcut



Historically Black Colleges and Universities Undergraduate Program (HBCU-UP)

Committed to enhancing the quality of undergraduate STEM education and research at HBCUs in order to broaden participation in the nation's STEM workforce and STEM graduate programs

HBCU - UP

HBCU-UP makes awards in the following tracks:

Research Initiation Awards
< 3 years, < $300K

Broadening Participation Research Projects
< 3 years, < $350K

HBCU - UP

PROJECT	DURATION	AMOUNT
Targeted Infusion	≤ 3 years	≤ $400 K
Implementation Achieving Competitive Excellence (ACE) Implementation	≤ 5 years	≤ $2 million
	≤ 5 years	≤ $3 million
New: Broadening Participation Research Centers	≤ 5 years	≤ $9 million

RAPID/ EAGER

Grants for Rapid Response Research (RAPID)

Severe Urgency

Up to $200K/one year

Brief project description

Internal review

EArly-concept Grants for Exploratory Research (EAGER)

Potentially transformative

Up to $300K/one year

“High risk-high payoff"

Internal review

Rare but occasional external review

NSF Research Traineeship (NRT) Program

Encouraging the development and implementation of bold, new, potentially transformative, and scalable models for STEM graduate training

Traineeship Track

$3,000,000 for up to 5 years

Innovations in Graduate Education (IGE) Track

$300,000 - $500,000 for 2-3 years

Application Deadline : 5/6/2015

ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers

Goals:

Systemic approaches to increase the representation and advancement of women in academic STEM careers.

Contribute to and inform the general knowledge base on gender equity in the academic STEM disciplines.

ADVANCE:
Three types of awards

Institutional Transformation

Letter of Intent Date: November 5, 2015

Full Proposal Due: January , 2016

Institutional Transformation Catalyst

Partnership for Learning and Adaptation Networks

Graduate Research Fellowship Program

Goals:

- Select, recognize, and financially support early in their careers individuals with the demonstrated potential to be high achieving scientists and engineers

- Broaden participation in science and engineering of underrepresented groups, including women, minorities, persons with disabilities, and veterans

5 Year Award = $138,000

$34,000/year for 3 years +

+

$12,000 Educational allowance to institution

Professional Development Opportunities:

GROW: International Research

GRIP: Internships

Supercomputer access: XSEDE

Career Life Balance (family leave)

RESOURCES:

Solicitation and links
www.nsf.gov/grfp

NSF GRFP FastLane Website
www.fastlane.nsf.gov/grfp

Application, guides, announcements
GRFP Website, www.nsfgrfp.org

Current & former Fellows
866-NSF-GRFP, info@nsfgrfp.org

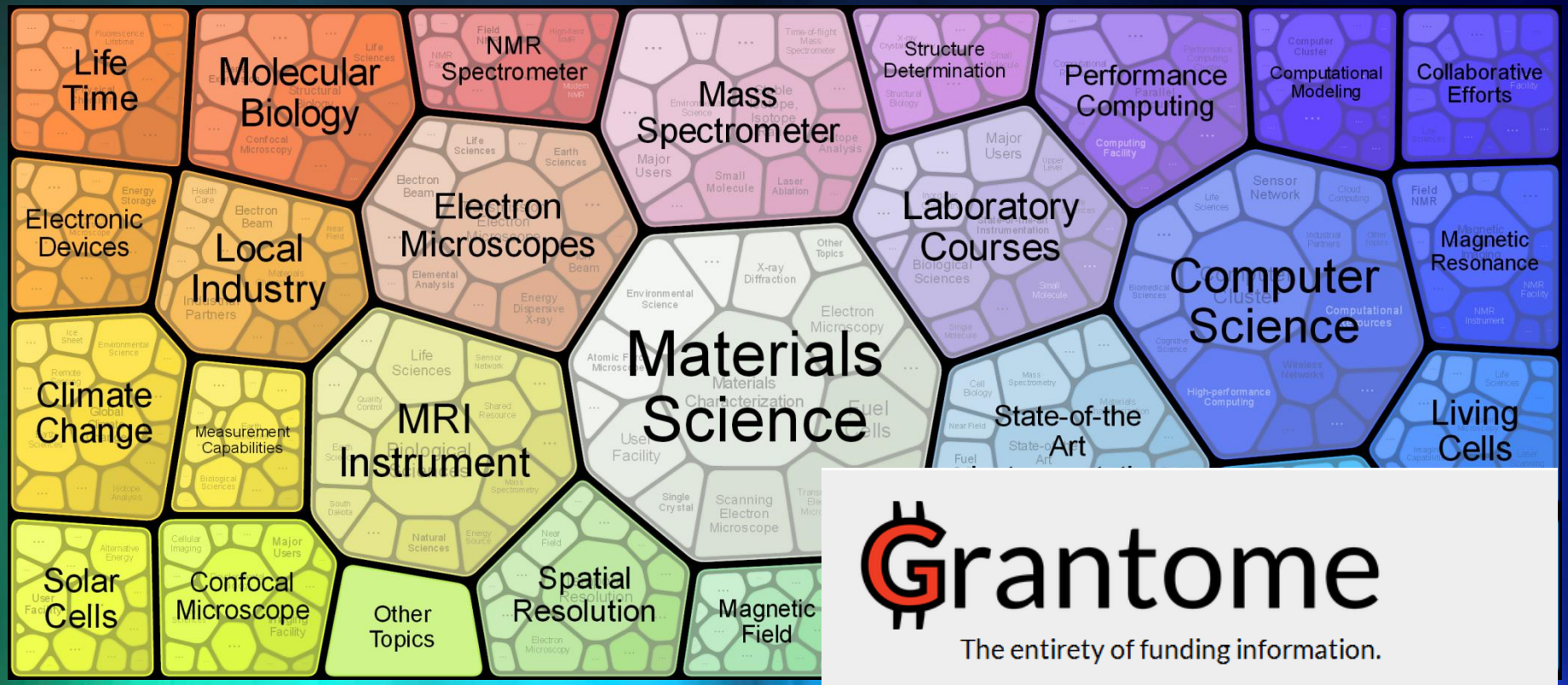
Major Research Instrumentation (MRI)

Goals:

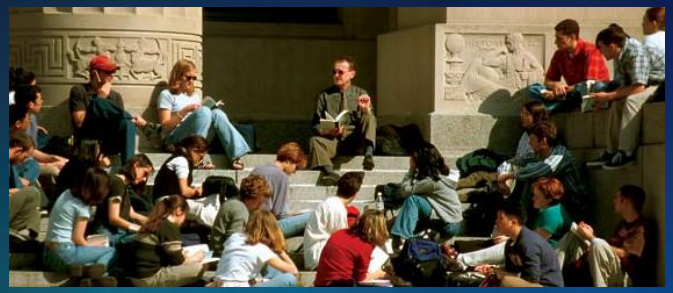
- Support acquisition of major state-of-the-art instrumentation
- Foster development of the next generation of major instrumentation
- Integrate research with education
- Use, advance, expand the nation's cyber-infrastructure and/or high performance computing capability
- Promote academic & private sector instrument development partnerships

Major Research Instrumentation (MRI)

Thematic Areas:



Support for Undergraduates
RUI, ROA for PUIs



RUIs and ROAs support research by faculty members at PUIs.

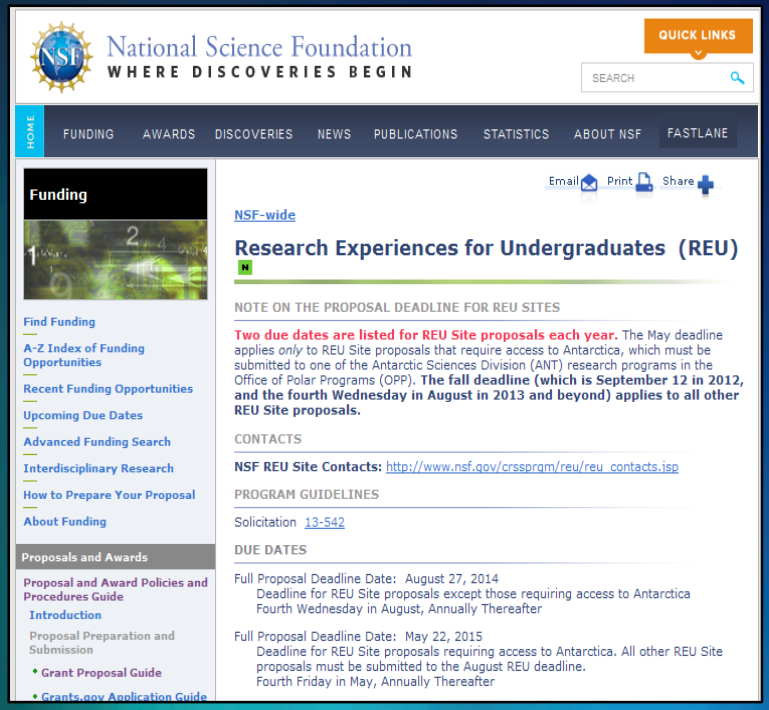
PUIs = accredited institutions that award Associate's, Bachelor's, and/or Master's degrees but have not awarded > 20 Ph.D./D.Sci. degrees in all NSF-supported fields during the combined previous two academic years.

ALL NSF directorates evaluate and fund RUIs and ROAs

They are funded within R & E program allocations

Directorate contacts found at : http://www.nsf.gov/crsspgrm/rui_roa/contacts.jsp

Research Experiences for Undergraduates



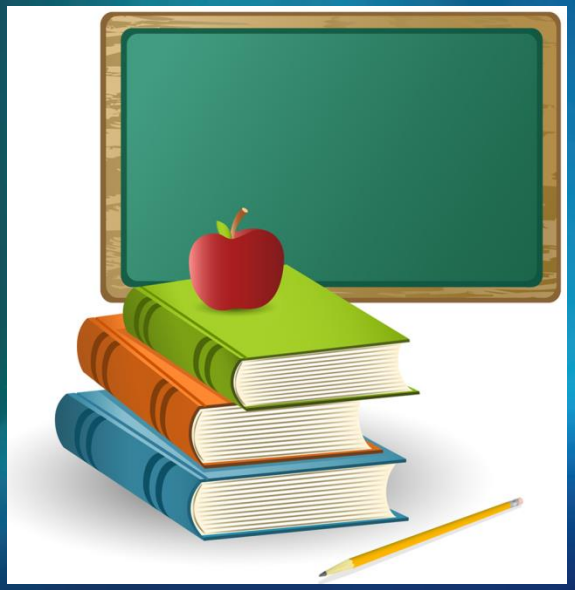
REU Goals:

- Initiate and conduct projects that engage a number of undergraduate students in research.
- Involve in research students who might not otherwise have the opportunity, particularly those from academic institutions where research programs are limited.

Research Experiences for Teachers

RET Goals:

Enable K-12 teachers and community college faculty
to engage in STEM research and then
adapt knowledge into their teaching



- RET Sites and Supplements
- May be included in REU proposals
- Check Directorates for specific mechanisms

Questions?

Lunch

The Merit Review Process

Video

http://www.nsf.gov/news/mmg/mmg_disp.jsp?med_id=76467

NSF's Proposal & Award Process Timeline

Black Box?

MERIT REVIEW CRITERIA

Intellectual Merit:

the potential to advance knowledge

Broader Impacts:

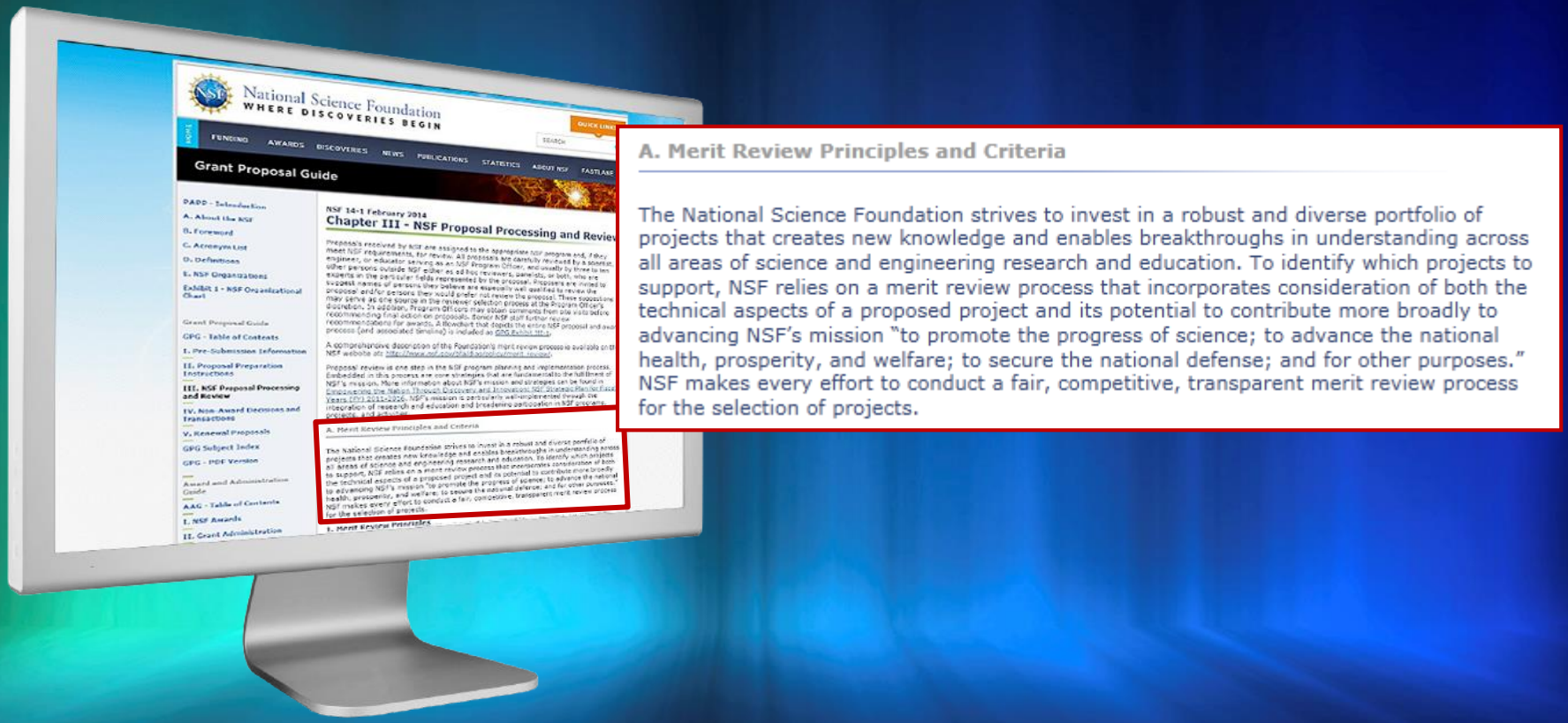
the potential to benefit society and contribute to the achievement of specific, desired societal outcomes

When Preparing Proposals

- Read the funding opportunity; ask a Program Officer for clarifications if needed
- Address all the proposal review criteria
- Understand the NSF merit review process
- Avoid omissions and mistakes
- Check your proposal to verify that it is complete!
- Double Check that the proposal NSF receives is the one you intended to send

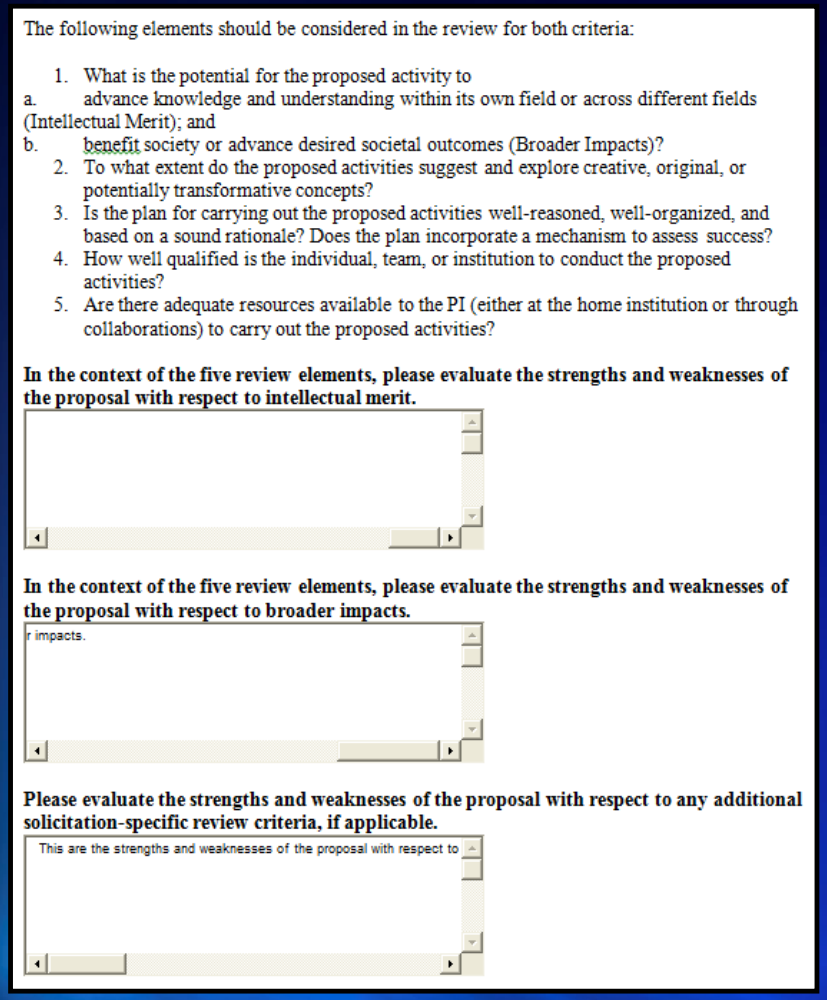
Merit Review Guiding Principles & Criteria

The Grant Proposal Guide (GPG) contains a description of the Merit Review Criteria



Review Format in FastLane

- Reviewers provide feedback to NSF based on the Review Criteria and the Review Elements
- Review Criteria and Elements are available as reviewers provide feedback



The following elements should be considered in the review for both criteria:

1. What is the potential for the proposed activity to
a. advance knowledge and understanding within its own field or across different fields (Intellectual Merit); and
b. benefit society or advance desired societal outcomes (Broader Impacts)?
2. To what extent do the proposed activities suggest and explore creative, original, or potentially transformative concepts?
3. Is the plan for carrying out the proposed activities well-reasoned, well-organized, and based on a sound rationale? Does the plan incorporate a mechanism to assess success?
4. How well qualified is the individual, team, or institution to conduct the proposed activities?
5. Are there adequate resources available to the PI (either at the home institution or through collaborations) to carry out the proposed activities?

In the context of the five review elements, please evaluate the strengths and weaknesses of the proposal with respect to intellectual merit.

In the context of the five review elements, please evaluate the strengths and weaknesses of the proposal with respect to broader impacts.

r impacts.

Please evaluate the strengths and weaknesses of the proposal with respect to any additional solicitation-specific review criteria, if applicable.

This are the strengths and weaknesses of the proposal with respect to

Over 2,000 proposals were RWR in FY 2014

6 most common reasons why

1. Not responsive to the GPG or program announcement/solicitation (960)
2. Does not meet an announced proposal deadline date and time (171)
3. It is inappropriate for NSF funding (74)
4. Duplicative or substantially similar to a proposal already under consideration (66)
5. Not substantively revised from a proposal that was previously reviewed and declined (37)
6. Duplicates another proposal that was already awarded (24)

Types of Reviews

- Ad Hoc
  - Proposals are sent out for review
- Panel
  - Face-to-Face sessions conducted with reviewers. Held at NSF, or virtually via assistive technologies such as WebEx or BlueJeans
- Combination
  - Some proposals may undergo supplemental ad hoc reviews before or after a panel review
- Internal
  - Reviewed by NSF Program Officers

How are Reviewers Selected?

- **Three or more external reviewers per proposal are selected**
- **Types of Reviewers Recruited**
  - Specific content expertise
  - General science or education expertise
- **Sources of Reviewers**
  - Former reviewers
  - Program Officer's knowledge of the research area
  - References listed in proposal
  - Recent professional society programs
  - S&E journal articles related to the proposal
  - Reviewer recommendations included in proposal

What is the Role of the Reviewer?

- **Review all proposal material and consider**
  - The two NSF merit review criteria and any program specific criteria
  - Adequacy of the proposed project plan- including the budget, resources, and timeline
  - Priorities of the scientific field and of the NSF program
  - Potential risks and benefits of the project
- **Make independent written comments on the quality of the proposal content**

What is the Role of the Review Panel?

- Discuss the merits of the proposal with the other panelists
- Write a summary based on that discussion
- Provide some indication of the relative merits of different proposals considered

Why Serve on an NSF Panel?

- Gain first-hand knowledge of the merit review process
- Learn about common problems with proposals

- Discover proposal writing strategies
- Meet colleagues and NSF Program Officers managing the programs related to your research

How Do I Become a Reviewer?

Contact the NSF Program Officer(s) of the program(s) that fit your expertise

- Introduce yourself as a strong potential reviewer based on your research experience
- Offer to send a 2-page CV with current contact information
- Stay in touch if you don't hear back right away

Conflicts of Interest (COI)

What is a COI?

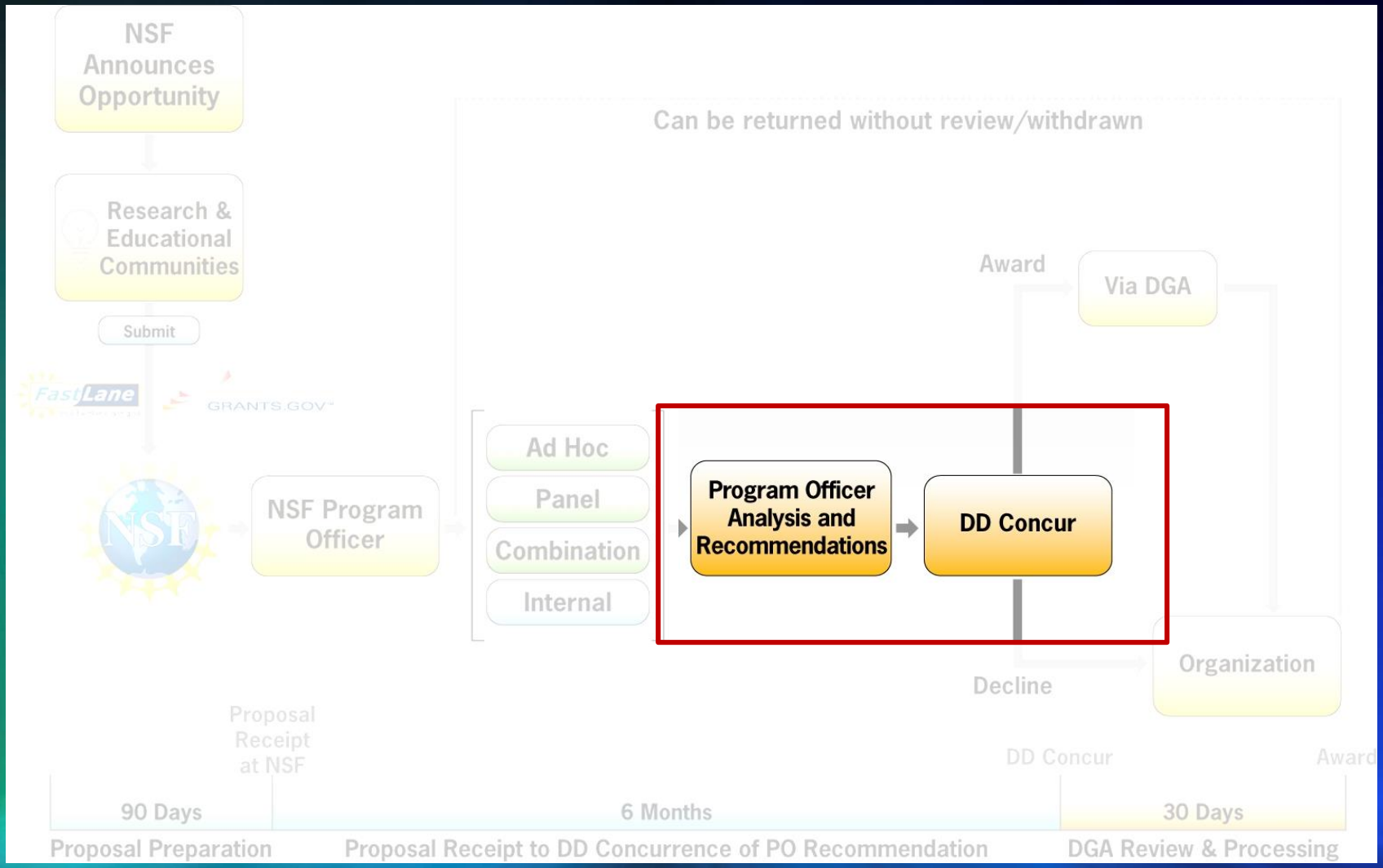
How we address conflict of interest

NSF checks and avoids COIs in the review process

Institutional COIs

Personal COIs

Proposal Review and Processing



Funding Decisions
Reviews are Advisory to NSF

- **The merit review process provides:**
  - Review of the proposal and a recommendation on funding.
  - Feedback (strengths and weaknesses) to the proposers.
- **NSF Program Officers make funding recommendations guided by program goals and portfolio considerations.**
- **NSF Division Directors either concur or reject the Program Officers' funding recommendations.**

Feedback from Merit Review

- Reviewer ratings (such as: E, V, G, F, P)
- Analysis of how well proposal addresses both review criteria: Intellectual Merit and Broader Impacts
- Proposal strengths and weaknesses
- Reasons for decline (if applicable)
- If you have any questions, contact the cognizant Program Officer.

Documentation from Merit Review

- Verbatim copies of individual reviews, excluding reviewer identities
- Panel summary or summaries (if panel review was used)
- Context statement (usually)

- Program Officer to Principal Investigator comments (formal or informal, written, email or verbal) as necessary to explain a decision

Examples of Reasons for Declines

- Not considered competitive based on merit review criteria and program office concurrence
- Flaws or issues identified by the Program Officer
- Funds were not adequate to fund all competitive proposals

Revisions and Resubmissions

- Do the reviewers and the NSF Program Officer identify significant strengths in your proposal?
- Can you address the identified weaknesses?
- Can the proposal be **significantly** revised?
- Are there other ways your colleagues or you think a resubmission can be strengthened?

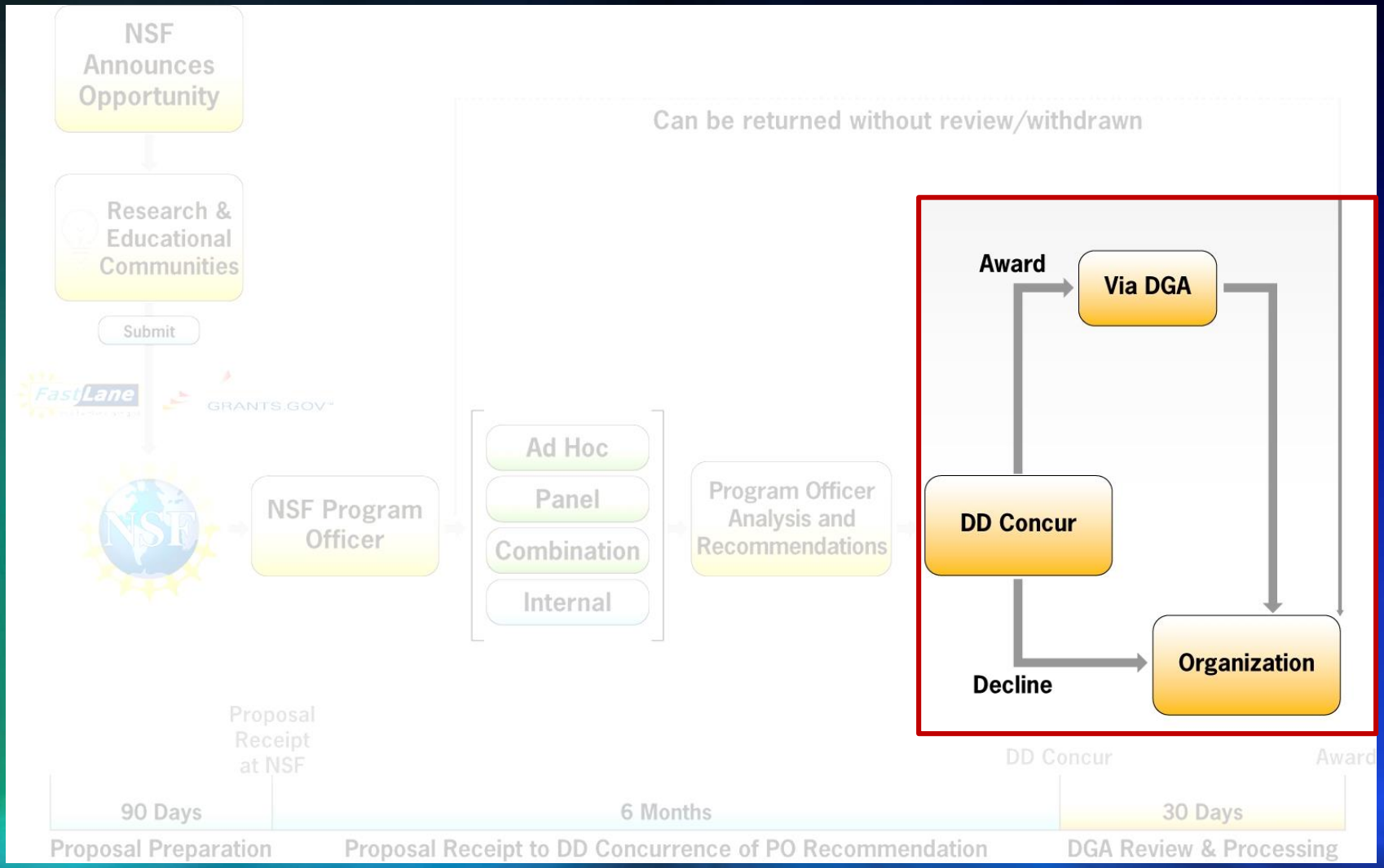
Questions?

Contact your cognizant Program Officer!

Possible Considerations for Funding a Competitive Proposal

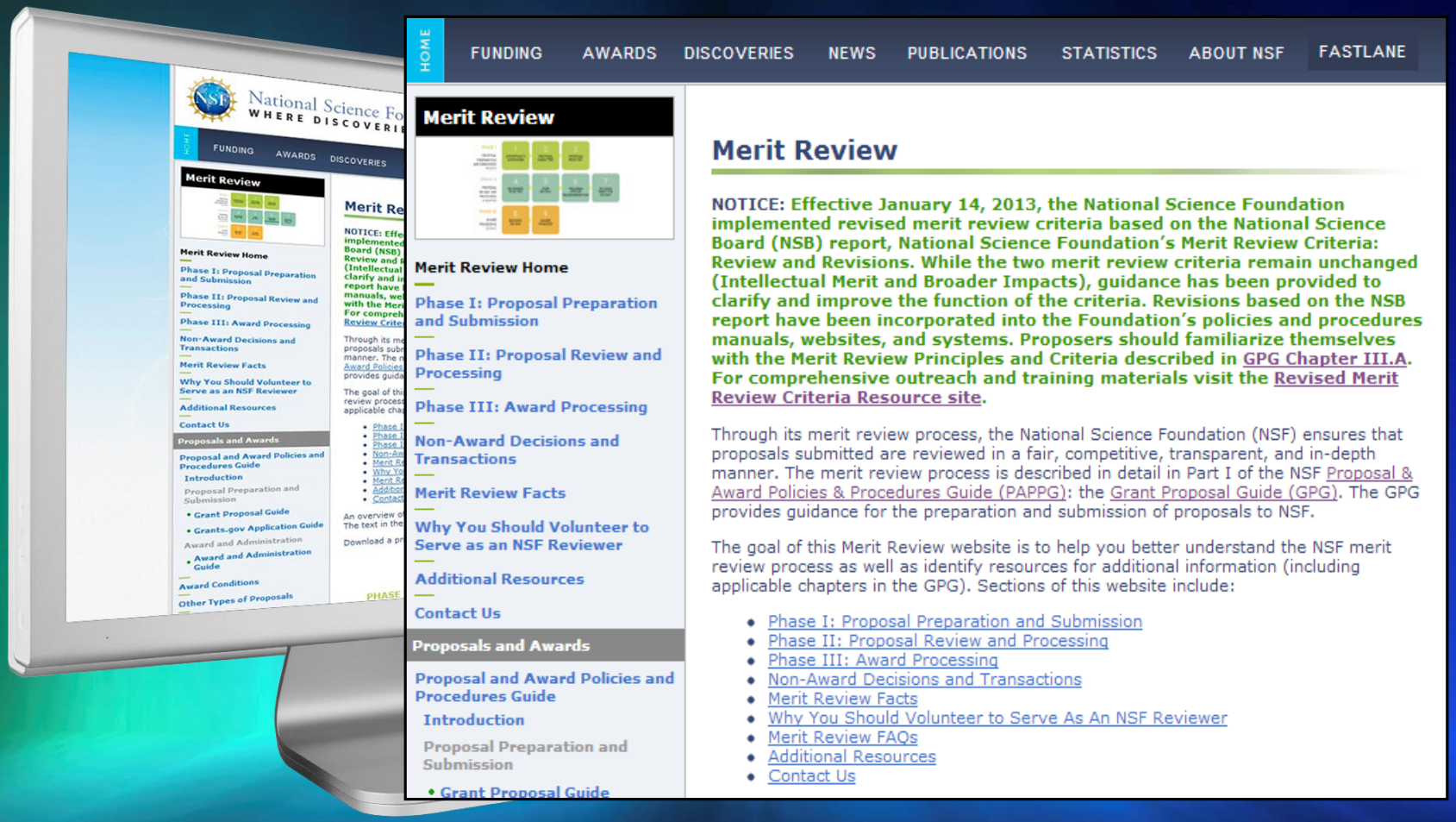
- Addresses all review criteria
- Likely high impact
- Broadening participation
- Educational impact
- Impact on institution/state
- Special programmatic considerations (e.g. CAREER/RUI/EPSCoR)
- Other support for PI
- "Launching" versus "Maintaining"
- Portfolio balance

Proposal Review and Processing



For More Information

Go to NSF's Home Page (http://www.nsf.gov)



Ask Early, Ask Often!

Contact the cognizant Program Officer

Faculty Early Career Development program (CAREER)

http://www.nsf.gov/career

CAREER Awards

Solicitation 15-555

Due Dates:

July 21, 2015	BIO, CISE, EHR
July 22, 2015	ENG
July 23, 2015	GEO, MPS, SBE

http://www.nsf.gov/career

CAREER Awards

Foundation wide

Supports junior faculty

Research and education integration

PECASE *(Presidential Early Career Award for Scientists and Engineers)*

eligibility

http://www.nsf.gov/career

CAREER Awards

Stable support for 5 years

NSF wide: 400 per year

> $400K – CISE, EHR, MPS, SBE

> $500K - ENG, BIO, GEO/PLR

CAREER Eligible Investigators Must:

Hold PhD (by proposal deadline)

Be employed in a tenure-track (or equivalent) position at an eligible institution as an Assistant Professor (until Oct 1st following deadline)

An Eligible Institution Must be:

An academic institution in the U.S., its territories or possessions, and the Commonwealth of Puerto Rico that award degrees in fields supported by NSF.

An eligible institution may also be:

Non-profit, non-degree-granting (e.g. a museum, observatory or lab) if the eligibility requirements of the PI are satisfied.

NSF encourages proposals from different institutional types, including minority serving and undergraduate institutions

CAREER Eligible Investigators May NOT:

- Receive tenure before Oct 1st following proposal deadline
- Have previously received a CAREER award
- Have had more than two CAREER proposals reviewed
- Be an untenured associate professor

CAREER Varies across NSF

- Number of submitted CAREER proposals
- Review and Funding methods
- Other Proposals with which CAREERs compete

NSF CAREER Coordinating Committee Sets NSF-wide goals

http://www.nsf.gov/career

CAREER Proposals

Contact program manager liaison* and ask about:

- **Expectations for scope of research and education**
- **Assessment of 2-page departmental letter**
- **Funding rate trend for regular proposals in the program of interest**

*** see http://www.nsf.gov/crssprgm/career/contacts.jsp**

Are CAREER Awards Right for you?

Yes, if:

Your proposed research is innovative, ambitious and within NSF's the purview of research and education supported

You have support from your department/ organization, mentors.

You are at the right stage of your career.

CAREER Personnel and Budgets

YES

Consultants, subawards, unpaid collaborators

Academic year buyouts for teaching intensive institutions

NO

Co-PI, senior personnel

CAREER Departmental 2 Page Letter

- Statement of PI CAREER program eligibility
- Support for PI's s proposed research and education activities
- Description of how the PIs career goals and responsibilities mesh with that of the organization and department
- Commitment to support professional development and mentoring of the PI
- NOT a letter of recommendation or endorsement of the PI or the research project

CAREER Awards Urban Myths

"You cannot apply because you have another NSF award. . ."

"It is an entry program, so you must first apply to CAREER. . ."

"I need to see a successful proposal to write a successful proposal. . ."

"You have no chance, if you are not from a research intensive institution. . ."

"CAREER proposals are more portable than other NSF funding."

"The education component does not matter.

"I read on the web that to succeed, I have to…."

Traits of a Successful CAREER Proposal

High quality -- This is a highly competitive program!

Matches disciplinary program expectations

Includes an appropriate scope of activities for a 5-year plan, not one's whole life!

Goes outside the education box of regular research proposals in the field

Strikes a balance between doable research activities and more risky pursuits

PECASE:
Presidential Early Career Awards for Science and Engineering
April 18, 2014

CAREER Awards Resources:

- Program Solicitation - NSF 15-555
- Frequently Asked Questions - NSF 15-057
- CAREER Directorate/Division Contacts
  - http://www.nsf.gov/crssprgm/career/contacts.jsp
- Links to recent CAREER and PECASE awards
- Deadlines for 2015
  - July , 2015 - BIO, CISE, EHR
  - July 22, 2015 - ENG
  - July 23, 2015 - GEO, MPS, SBE

Questions?

Break

Directorate Sessions

Thank you for Attending!

Please Complete Your Evaluation!