

National Science Foundation

Vermont EPSCOR Annual State Meeting
August 2012

Dr. Anita J. La Salle

Program Director

Directorate for Computer and Information

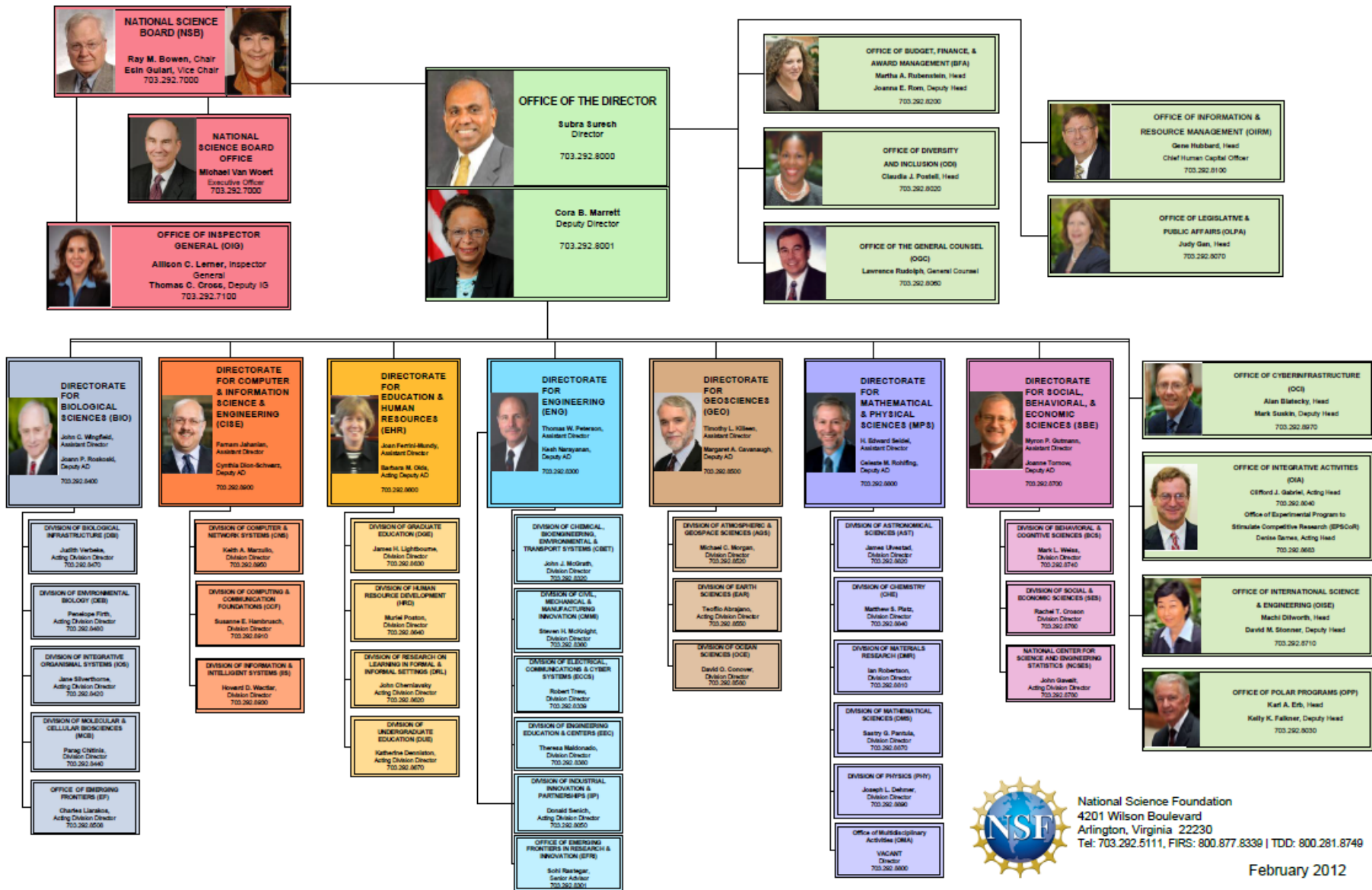
Science and Engineering



Ways to broaden NSF Support:

- Navigating the NSF “Maze”
- Knowing Who’s Who and how that helps you
- Finding what we’ve funded
- Keeping up with what’s new
- What’s actually new
- A few words about Innovation funding
- It’s up to you too

Navigating the NSF “Maze” – how we are organized & why you need to know this information



National Science Foundation
4201 Wilson Boulevard
Arlington, Virginia 22230
Tel: 703.292.5111, FIRS: 800.877.8338 | TDD: 800.281.8749

February 2012

Navigating the NSF “Maze” -- Find your research/program/division/directorate

nsf.gov - National Science Foundation - US National Science Foundation (NSF) - Microsoft Internet Explorer provided by National

http://www.nsf.gov/#1

File Edit View Favorites Tools Help

Convert Select

US NSF - CISE - CNS C... I-Corps Sol. I-Corps Home Paris Radio Google nsf.gov Electronic Jacket Login Inside NSF Welcome Inside FastLane Login

nsf.gov - National Science Foundation - US N...

SEARCH

HOME FUNDING AWARDS DISCOVERIES NEWS PUBLICATIONS STATISTICS ABOUT NSF FASTLANE

New Augmented Reality Modeling System

FULL STORY

Advancing the Sciences Funding & Supporting Inspiring & Educating HIDE

Predatory Beetles Eavesdrop on Ants' Chemical Conversations to Find Best Egg-Laying Sites
August 3, 2012

Earth Absorbing More Carbon, Even as CO₂ Emissions Rise, Says CU-Boulder-led Study
August 1, 2012

Bears, Scavengers Count on All-you-can-eat Salmon Buffet Lasting for Months
August 2, 2012

Adding a “3D Print” Button to Animation Software
July 31, 2012

Local intranet 100%

If you know your Directorate, start here.

Navigating the NSF “Maze” -- Find your research/program/division/directorate

The screenshot shows the NSF website in a Microsoft Internet Explorer browser. The address bar displays <http://www.nsf.gov/#4>. The page header includes the NSF logo and the tagline "WHERE DISCOVERIES BEGIN". A search bar is located in the top right corner. The main navigation menu is highlighted, with "FUNDING" selected. A dropdown menu is visible under "FUNDING", listing options such as "Search Funding Opportunities", "Browse Opportunities A-Z", "Recent Opportunities", "Due Dates", "Preparing Proposals", "Policies & Procedures", "Merit Review", "Interdisciplinary Research", "Transformative Research", and "About Funding". A blue arrow points from the text on the right to the "FUNDING" menu item. The main content area features a featured article titled "Microbes Flourish in Undersea Volcanoes" with a "FULL STORY" button. Below this, there are three smaller articles: "Predatory Beetles Eavesdrop on Ants' Chemical Conversations to Find Best Egg-laying Sites" (August 3, 2012), "Bears, Scavengers Count on All-you-can-eat Salmon Buffet Lasting for Months" (August 2, 2012), and "Earth Absorbing More Carbon, Even as CO₂ Emissions Rise, Says CU-Boulder-led Study" (August 1, 2012). The footer of the page includes the URL <http://www.nsf.gov/funding/> and a "Local intranet" link.

If you want to browse for specific programs, what's new and some cross-cutting activities, start here.

Knowing Who's Who and how that helps you

Office	Acronym	Phone Number
Office of the Director	OD	(703) 292-9000
Office of Cyberinfrastructure	OD/OCI	(703) 292-8970
Office of the General Counsel	OD/OGC	(703) 292-8040
Office of International Activities	OD/OIA	(703) 292-8040
Office of International Programs for Students (Competitive Research)	OIA/WPSCRA	(703) 292-8683
Office of International Science and Engineering	OD/OISE	(703) 292-8710
Office of Diversity and Inclusion (ODI)	OD/OI	(703) 292-8020
Office of Leadership & Public Affairs	OD/OIPA	(703) 292-8070
Office of Public Programs	OD/OPP	(703) 292-8030
National Science Board	NSB	(703) 292-7000
Office of the Inspector General	OIG	(703) 292-7100
Directorate for Biological Sciences	BIO/OAO	(703) 292-8400
Division of Molecular & Cellular Biochemistry	BIO/MCB	(703) 292-8440
Division of Behavioral Infrastructure	BIO/OBI	(703) 292-8470
Division of Information Systems	BIO/OIS	(703) 292-8420
Division of Environmental Biology	BIO/OEB	(703) 292-8480
Emerging Frontiers Division	BIO/EF	(703) 292-8306
Directorate for Computer & Information Science & Engineering	CSE/OAO	(703) 292-8900
Division of Computing and Communications	CSE/CCP	(703) 292-8920
Division of Computer and Network Systems	CSE/CNS	(703) 292-8930
Division of Information and Intelligent Systems	CSE/IIS	(703) 292-8930
Directorate for Education & Human Resources	EHR/OAO	(703) 292-8600
Division of Research on Learning in Formal and Informal Settings	EHR/DRL	(703) 292-8620
Division of Graduate Education	EHR/DGE	(703) 292-8630
Division of Human Resource Development	EHR/HRD	(703) 292-8640
Division of Undergraduate Education	EHR/DUE	(703) 292-8670
Directorate for Engineering	ENG/OAO	(703) 292-8300
Division of Chemical, Biomaterials, Environmental, and Transport Systems	ENG/CSET	(703) 292-8320
Division of Civil, Mechanical & Manufacturing Engineering	ENG/CME	(703) 292-8340

Finding what we've funded

The "quick and dirty" way – on NSF's home page. ...

FUNDING OPPORTUNITIES

Search Funding Opportunities

Enter search term **GO**

Search by Program Area

Select One **GO**

VIEW ALL FUNDING OPPORTUNITIES

Proposal and Award Policies and Procedures Guide
Prepare a Proposal
Upcoming Due Dates
Submit Proposal to FastLane

nsf.gov - National Science Foundation - US National Science Foundation (NSF) - Microsoft Internet Explorer provided by National

http://www.nsf.gov/#5

File Edit View Favorites Tools Help

x Convert Select

Favorites US NSF - CISE - CNS C... I-Corps Sol. I-Corps Home Paris Radio Google nsf.gov Electronic Jacket Login Inside NSF Welcome Inside FastLane Login

nsf.gov - National Science Foundation - US N...

SEARCH

HOME FUNDING AWARDS DISCOVERIES NEWS PUBLICATIONS STATISTICS ABOUT NSF FASTLANE

About Awards
Managing Awards
Policies & Procedures
Award Conditions
Search Awards
Presidential & Honorary Awards
Award Statistics (Budget Internet Info System)

Patterns in Nature:
Window to New Findings

FULL STORY

Advancing the Sciences Funding & Supporting Inspiring & Educating

Predatory Beetles Eavesdrop on Ants' Chemical Conversations to Find Best Egg-laying Sites
August 3, 2012

Earth Absorbing More Carbon, Even as CO₂ Emissions Rise, Says CU-Boulder-led Study
August 1, 2012

Bears, Scavengers Count on All-you-can-eat Salmon Buffet Lasting for Months
August 2, 2012

Adding a "3D Print" Button to Animation Software
July 31, 2012

Local intranet 100%

Or, the more detailed way ...

Find Relevant Projects, Researchers, Programs, Program Directors

Award Search

Awardee Information

Program Information

Search All

Hint: The text field below 'Search Award For' searches the title, abstract, and award number fields.

Search Award For:

Restrict to Title Only:

Awardee Information

Principal Investigator

First Name:

Last Name:

Hint: Including CO-PI will result in more results.

Include CO-PI:

Organization:

State:

ZIP Code:

Country:

Hint: Historical data is from prior to 1976. This data may not be as complete as recent data.

Active Awards Only:

Active and Expired Awards:

Expired Awards Only:

Historical Awards:

Award Search

Awardee Information

Program Information

Search All Free-Text

Search All Fields

Hint: The text field below 'Search Award For' searches the title, abstract, and award number fields.

Search Award For:

Restrict to Title Only:

Program Information

NSF Organization:

Program Officer:

Element Code:

Reference Code:

Hint: This "Program" box searches the title, abstract, and award number fields. For best results, please use the full name of the program.

Program:

Field of Application:

Hint: Historical data is from prior to 1976. This data may not be as complete as recent data.

Active Awards Only:

Active and Expired Awards:

Expired Awards Only:

Historical Awards:

Award Search

Awardee Information

Program Information

Search All Free-Text

Hint: The text field below 'Search Award For' searches the title, abstract, and award number fields.

Search Award For:

Restrict to Title Only:

Hint: Historical data is from prior to 1976. This data may not be as complete as recent data.

Active Awards Only:

Active and Expired Awards:

Expired Awards Only:

Historical Awards:

Search

Reset

Careful with your query – you may get more than you bargained for ...

Search Results

[Back](#)

Results are sorted by award date, with the most recent awards at the top. Click on a column heading to re-sort the results.

The up/down arrows at the right of each column title control whether the sort is ascending or descending.

To view the abstract, click on the award number or title. Click on the data in other columns to perform a new search with that parameter.

[Refine Search](#)

18 awards found, displaying all awards.

Award Number	Title	NSF Organization	Program(s)	Start Date	Principal Investigator	State	Organization	Awarded Amount to Date
0956924	International Workshop on Connected Multimedia	IIS	ROBUST INTELLIGENCE	09/15/2009	Zhang, Zhongfei	NY	SUNY at Binghamton	\$10,250.00
0917072	DC: Small: Semantic Analysis of Large Multimedia Data Sets	IIS	DATA-INTENSIVE COMPUTING	09/01/2009	Hauptmann, Alexander	PA	Carnegie-Mellon University	\$450,000.00
0812307	III-COR-Small: Developing Novel Mosaic Generation Methods for Object-Based Multimedia Information Systems	IIS	EXP PROG TO STIM COMP RES, INFO INTEGRATION & INFORMATICS	10/01/2008	Avqun, Ramazan	AL	University of Alabama in Huntsville	\$189,441.00
0854606	III-CXT-Small: Collaborative Research: Structuring, Reasoning, and Querying in a Very Large Medical Image Database	IIS	INFO INTEGRATION & INFORMATICS	09/01/2008	Tan, Gang	PA	Lehigh University	\$54,464.00
0812601	III-COR-Small: Collaborative Research: Time Series Subsequence Matching for Content-based Access in Very Large Multimedia Databases	IIS	INFO INTEGRATION & INFORMATICS	09/01/2008	Athitsos, Vassilis	TX	University of Texas at Arlington	\$241,001.00
0812377	III-COR-Small: Similarity Criteria Issues in Similarity Retrieval	IIS	INFO INTEGRATION & INFORMATICS	09/01/2008	Samet, Hanan	MD	University of Maryland College Park	\$449,999.00
0812309	III-COR-Small: Collaborative Research: Time Series Subsequence Matching for Content-based Access in Very Large Multimedia Databases	IIS	INFO INTEGRATION & INFORMATICS	09/01/2008	Kollios, George	MA	Trustees of Boston University	\$224,998.00
0812124	III-CXT-Small: Collaborative Research: Structuring, Reasoning, and Querying	IIS	INFO INTEGRATION & INFORMATICS	09/01/2008	Naqy, George	NY	Rensselaer Polytechnic Institute	\$115,469.00
0812120	III-CXT-Small: Collaborative Research: Structuring, Reasoning, and Querying in a Very Large Medical Image Database	IIS	INFO INTEGRATION & INFORMATICS	09/01/2008	Huang, Xiaolei	PA	Lehigh University	\$229,519.00
0751185	CRI: CRD: Collaborative Research: Large Analytics Library and Scalable Concept Ontology for Multimedia Research	CNS	ROBUST INTELLIGENCE, COMPUTING RES INFRASTRUCTURE	03/15/2008	Hauptmann, Alexander	PA	Carnegie-Mellon University	\$438,000.00
0751078	CRI: CRD: Collaborative Research: Large Analytics Library and Scalable Concept	CNS	COMPUTING RES INFRASTRUCTURE	03/15/2008	Chang, Shih-Fu	NY	Columbia University	\$285,000.00

Click on those of interest and you will be able to get lots of details.

Award Abstract #0917072

DC: Small: Semantic Analysis of Large Multimedia Data Sets

NSF Org:	IIS Division of Information & Intelligent Systems
Initial Amendment Date:	September 4, 2009
Latest Amendment Date:	September 4, 2009
Award Number:	0917072
Award Instrument:	Standard Grant
Program Manager:	Frank Olken IIS Division of Information & Intelligent Systems CSE Directorate for Computer & Information Science & Engineering
Start Date:	September 1, 2009
Expires:	August 31, 2012 (Estimated)
Awarded Amount to Date:	\$450000
Investigator(s):	Alexander Hauptmann alex@cs.cmu.edu (Principal Investigator)
Sponsor:	Carnegie-Mellon University 5000 Forbes Avenue PITTSBURGH, PA 15213 412/268-8746
NSF Program(s):	DATA-INTENSIVE COMPUTING
Field Application(s):	
Program Reference Code(s):	HPCC, 9216, 7923, 7793
Program Element Code(s):	7793

ABSTRACT

This research addresses interactivity and scalability in automatically analyzing large collections of video and multiple video streams processed continuously. This work is developing mechanisms to enable real-time interactive video search for user defined concepts using intelligent, active processing clusters and methods for performing high-accuracy semantic video analysis from large amounts of weakly-labeled video over distributed computing resources. The methods leverage modern cluster file systems where data is stored on the local disks of the compute servers, and the location of data is made available to the runtime system to allow co-location of computation and storage.

The specific research objectives are to allow co-location of compute and storage through a runtime for parallel stream processing that parallelizes data processing and machine learning tasks across a cluster of multi-core compute nodes. The project also extends distributed versions of graphic model algorithms to speed computation of both the basic low-level signal processing steps and for the semantic analysis based on weakly labeled video data as currently available on the web. The main outcome is to demonstrate vastly accelerated, complete processing of parallel live video streams into a retrieval database with immediate search capabilities and accessing cluster resources during interactive search. The goal of this work is to develop principles for interactive applications driven by real-time processing of high-rate streaming data. The processing architecture and modules developed in this work will enable computer vision and multimedia developers to efficiently apply and test their own methods within this framework.

Publications resulting from this research will appear here – a great information source!

And, there are other categories of information you can query.

Award Search

[Send Comments](#) | [Award Search Help](#)


[Awardee Information](#)

[Program Information](#)

[Search All Free-Text](#)

[Search All Fields](#)

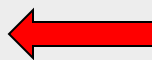
More Options

 [More Options](#)

[Recent Awards](#)

Lists of Awards made during the five preceding weeks.

[Funding Trends \(BIIS\)](#)



Lots of statistics

The Budget Internet Information System provides summaries of award amounts by state, awardee institution, and NSF Directorate.

[Presidential and Honorary Awards](#)

Information about these award programs can be found on the Presidential and Honorary Awards page.

NSF Funding Rate Statistics:

Award Search

=> More Options

=> Funding Trends

For Example: Summary Proposal and Award Information (Funding Rate) by State and Organization

Advice:

Don't spend time on trying to analyze the numbers

Don't dwell on the numbers

Don't blame the numbers

Best "game plan": submit an excellent proposal addressing program's goals

FY 2009 CISE Funding Rate for Research Grants

Overall CISE Funding Rate: 28%



Keeping up with what's new -- Subscribe to NSF's mailing list

The image shows a screenshot of the National Science Foundation (NSF) website. The browser window at the top displays the URL <http://www.nsf.gov/index.jsp#2>. The website header includes the NSF logo and the tagline "WHERE DISCOVERIES BEGIN". The main navigation menu contains links for HOME, FUNDING, AWARDS, DISCOVERIES, NEWS, PUBLICATIONS, STATISTICS, ABOUT NSF, and FASTLANE. The "NEWS" menu is expanded, showing options like News Home, For News Media, Multimedia Gallery, Special Reports, News from the Field, Research Overviews, Speeches & Lecture, NSF Current Newsletter, NSF Wide Investments, News Archive, and Search News. A blue arrow points from the "NEWS" menu to a "Get News Updates by Email" link in the "News" section of the page. The "News" section also includes a search bar, a "QUICK LINKS" button, and a list of news items with dates and release types. The bottom of the page features a grid of featured news stories with images and titles.

nsf.gov - National Science Foundation - US National Science Foundation (NSF) - Microsoft Internet Explorer provided by National

http://www.nsf.gov/index.jsp#2

File Edit View Favorites Tools Help

x Convert Select

Favorites US NSF - CISE - CNS C... I-Corps Sol. I-Corps Home Paris Radio Google nsf.gov Electronic Jacket Login Inside NSF Welcome Inside FastLane Login

nsf.gov - National Science Foundation - US N...

QUICK LINKS

National Science Foundation
WHERE DISCOVERIES BEGIN

SEARCH

HOME FUNDING AWARDS DISCOVERIES NEWS PUBLICATIONS STATISTICS ABOUT NSF FASTLANE

News Home
For News Media
Multimedia Gallery
Special Reports
News from the Field
Research Overviews
Speeches & Lecture
NSF Current Newsletter
NSF Wide Investments
News Archive
Search News

Advancing the Sciences

ing & Educating

Local intranet 100%

National Science Foundation
WHERE DISCOVERIES BEGIN

SEARCH

QUICK LINKS

News

Get News Updates by Email | What is RSS?

Page: Previous | Next (Showing: 1-30 of 7495)

News

News From the Field
For News Media
Special Reports
Research Overviews
NSF-Wide Investments
Speeches & Lectures
NSF Current Newsletter
Multimedia Gallery
News Archive

News by Research Area

Arctic & Antarctic
Astronomy & Space
Biology
Chemistry & Materials
Computing
Earth & Environment
Education
Engineering
Mathematics
Nanoscience

NEH and NSF Award \$4.5 Million to Preserve Languages Threatened With Extinction
Released August 10, 2012
Press Release

Patient Successfully Evacuated From Antarctica
Released August 9, 2012
Press Release

NSF Reaches Out to the Public on Federal Government-wide Digital Strategy
Released August 9, 2012
Press Release

Antarctic Medical Evacuation
Released August 8, 2012
Press Release

WIGIT's iDAWG Communications Elements Progressing to Field Test
Released August 8, 2012
News From the Field

Paddlefish's Doubled Genome Calls Into Question Theories on Limb Evolution
Released August 7, 2012

Predatory Beetles Eavesdrop on Ants' Chemical Conversations to Find Best Egg-laying Sites
August 3, 2012

Bears, Scavengers Count on All-you-can-eat Salmon Buffet Lasting for Months
August 2, 2012

Earth Absorbing More Carbon, Even as CO₂ Emissions Rise, Says CU-Boulder Study
August 1, 2012

Adding a "3D Print" Button to Animation Software
July 31, 2012

What's actually new

The screenshot shows the NSF website's 'Active Funding Opportunities - Recently Announced' page. The page features a navigation bar with links like 'HOME', 'FUNDING', 'AWARDS', 'DISCOVERIES', 'NEWS', 'PUBLICATIONS', 'STATISTICS', 'ABOUT NSF', and 'FASTLANE'. A search bar is located in the top right. The main content area includes a sidebar with 'Find Funding' and 'Proposals and Awards' sections. The main content area displays a list of funding opportunities with columns for Title, Program Guidelines, and Due Dates. A blue arrow points to the 'Status: Active' dropdown menu.

National Science Foundation
WHERE DISCOVERIES BEGIN

QUICK LINKS

SEARCH

HOME FUNDING AWARDS DISCOVERIES NEWS PUBLICATIONS STATISTICS ABOUT NSF FASTLANE

Funding

Email Print Share

Active Funding Opportunities - Recently Announced

Org: All NSF Organizations Status: Active

Get Program Annncmts & Info Updates by Email RSS
 Get Upcoming Due Dates Updates by Email RSS What is RSS?

Sorted by Publish Dates. Click column headings to sort.

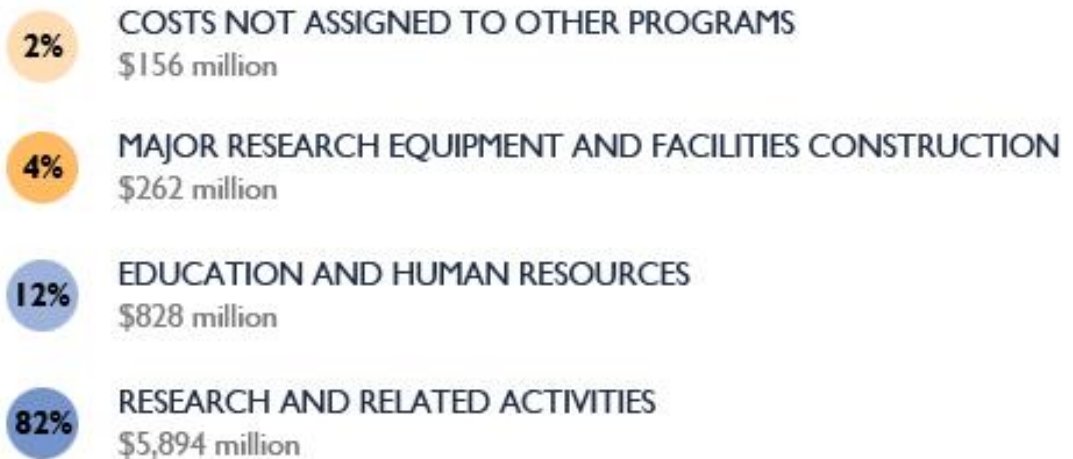
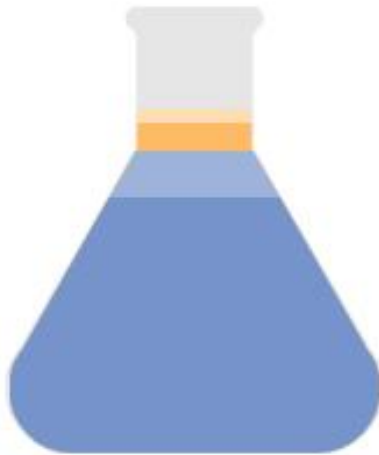
Key: Crosscutting | NSF-wide | Grants.gov submission required

Title	Program Guidelines	Due Dates
East Asia and Pacific Summer Institutes for U.S. Graduate Students (EAPSI) <input checked="" type="checkbox"/>	12-498	Full Proposal: November 8, 2012
Secure and Trustworthy Cyberspace (SaTC)	12-596	Full Proposal: November 30, 2012
		Full Proposal: December 14, 2012
		Full Proposal: January 30, 2013
Critical Zone Observatory National Office (CZO-NO)	12-595	Full Proposal: July 16, 2013
Coastal SEES (Coastal SEES) <input checked="" type="checkbox"/>	12-594	Full Proposal: January 17, 2013
Materials World Network: Cooperative Activity in Materials Research between US Investigators and their Counterparts Abroad (MWN)	12-593	Full Proposal: November 14, 2012
Small Business Technology Transfer Program Phase I Solicitation FY-2013 (STTR)	12-592	Letter of Intent: November 20, 2012
		Full Proposal:

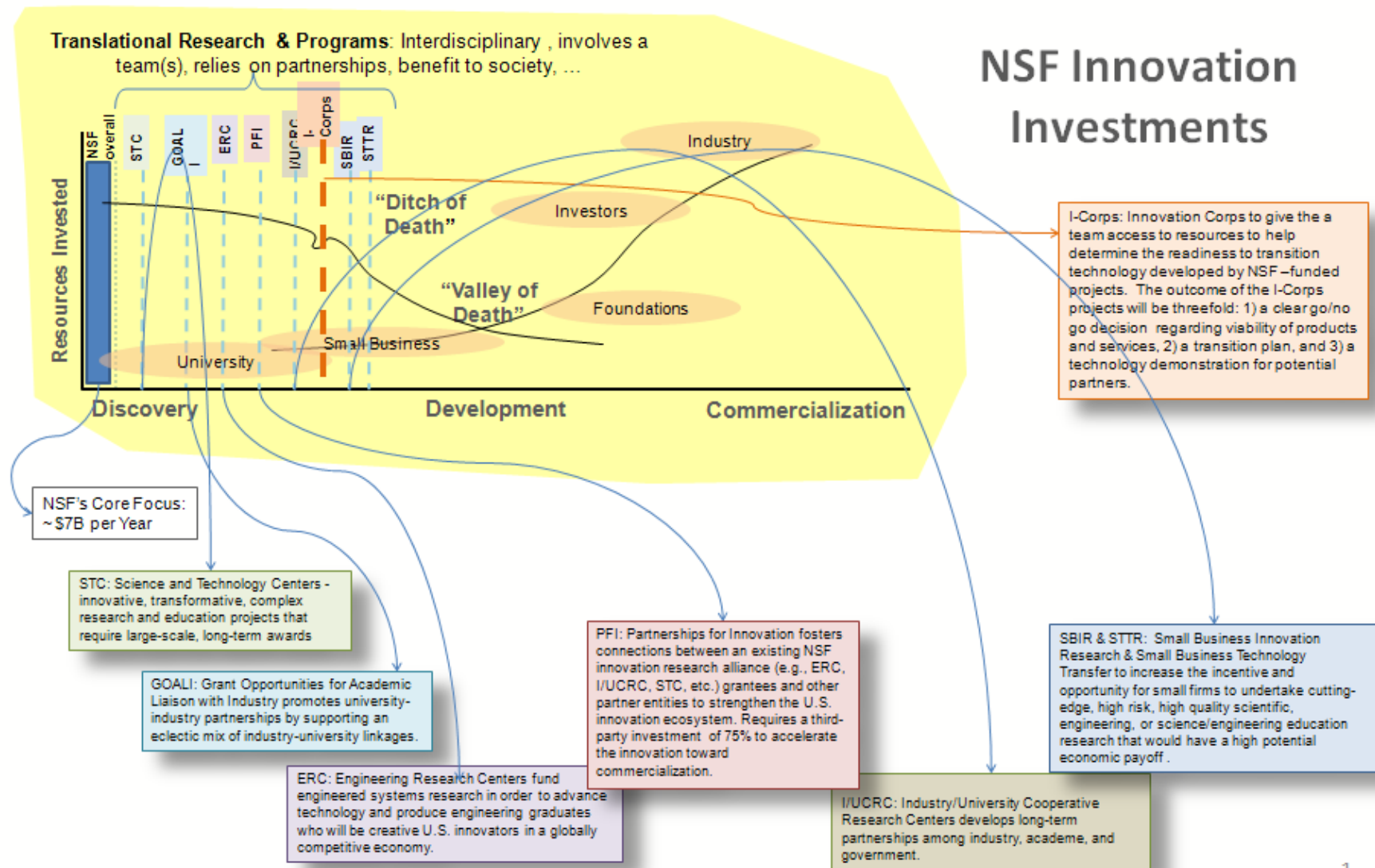
Speaking of Funding – of NSF’s roughly \$ 7 B Budget in 2011

HOW IT'S SPENT

FY 2011 Net Cost



A few words about Innovation funding .. more to follow at break-out sessions



The “bottom line” – achieving funding is more complicated than just responding to an NSF Solicitation

- Keep informed about what is going on at NSF and National priorities.
- Of course, send your best ideas to NSF: BUT -- consistent with program focus and goals – read those solicitations carefully
- Collaborate – the world is becoming intra-, inter-, trans-, -multi-disciplinary ... this is reflected in many NSF new foci
- Get to know your Program Director(s)
- **Volunteer to be a reviewer and panelist**
- Call our attention to things that need improvement
- Think about transition strategies from basic research to prototyping and production
- Participate in NSF-funded events, workshops, etc.
- Organize research directions planning workshops
- Mentor your new faculty – send them to NSF (Arlington, VA) to speak with PDs
- Plan to serve as a program officer (“rotator”) or division director



Questions?