



EPSCoR Overview and Funding Opportunities

Vermont EPSCoR Annual State Meeting
Burlington, VT
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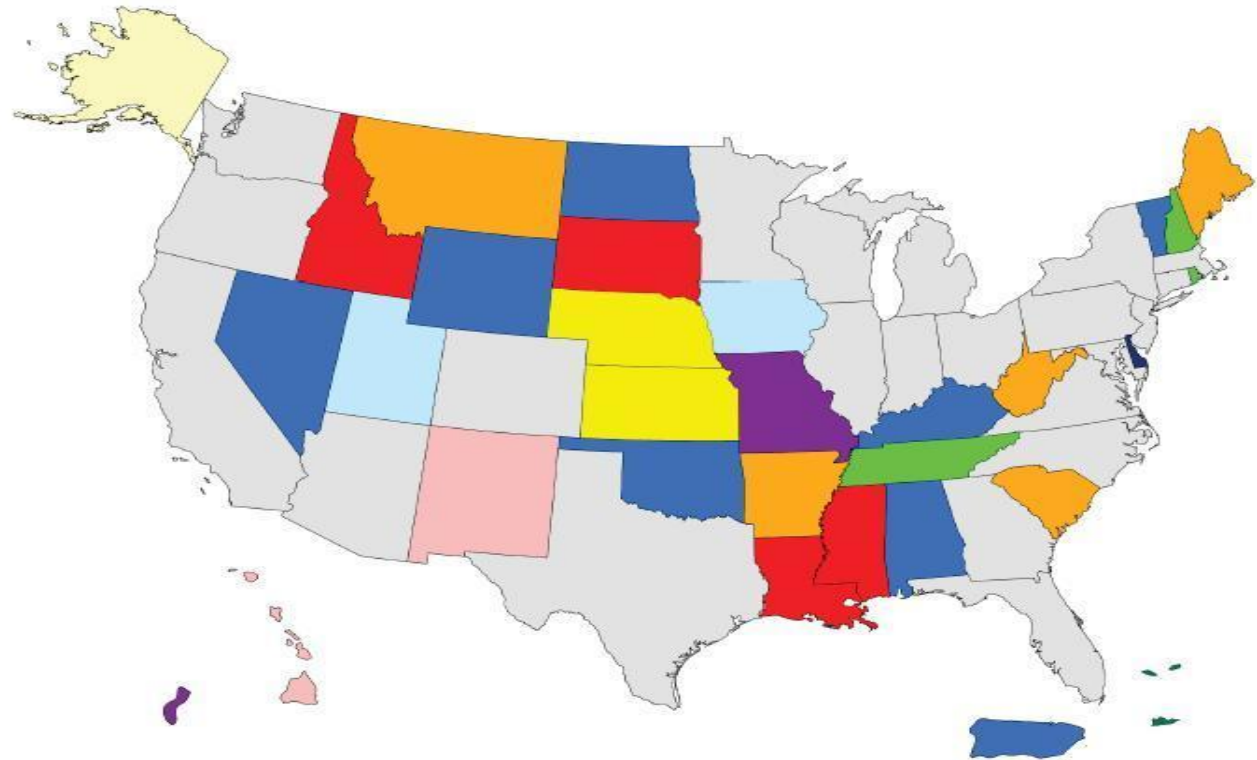
EPSCoR Aims to Increase Competitiveness by...

1. Catalyzing key research themes;
2. Promoting effective collaborations;
3. Broadening participation in STEM disciplines; and
4. Using EPSCoR as a programmatic testbed.

EPSCoR Jurisdictions



- States and Territories that are awarded less than 0.75% of NSF research support funding
- Eligibility table updated annually and posted on EPSCoR website



1980 Arkansas Maine Montana South Carolina West Virginia	1985 Alabama Kentucky Nevada North Dakota Oklahoma Puerto Rico Vermont Wyoming	1987 Idaho Louisiana Mississippi South Dakota	2000 Alaska	2003 Delaware	2009 Iowa Utah
		1992 Kansas Nebraska	2001 Hawaii New Mexico	2004 New Hampshire Rhode Island Tennessee	2012 Guam Missouri
			2002 U.S. Virgin Islands		

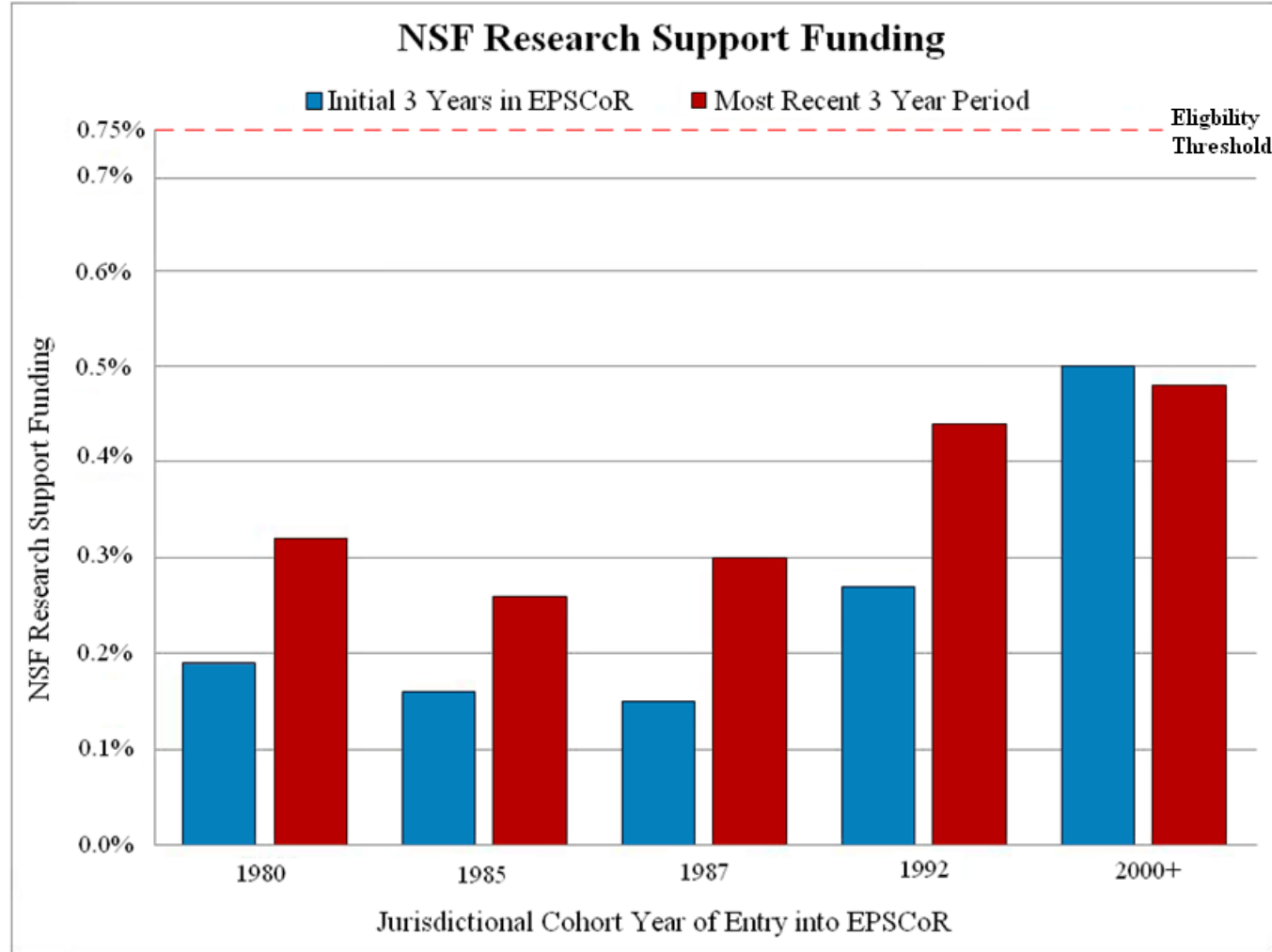
EPSCoR Funding



Activity	FY09	FY10	FY11	FY12	FY13
RII	91.3	100.2	106.2	110.6	116.3
Co-funding	41.1	45.4	39.4	38.8	30.8
Outreach & Workshops	0.5	1.5	1.2	1.5	0.5
Total	132.9	147.1	146.8	150.9	147.6

EPSCoR funding represents ~2.7% of NSF's overall research support (FY 2011-13)

NSF Funding by Cohort



VT in Context

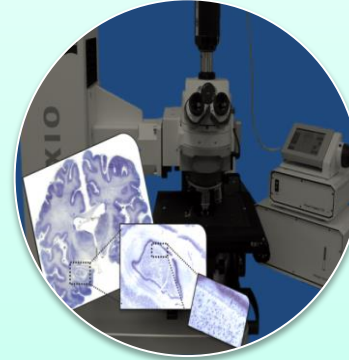
- 1985 Cohort
- Initial three years in EPSCoR: 0.08% of NSF research funding.
- Most recent three years: 0.19%.
- Relative increase of ~138%



**Discovery &
Innovation**



**Education &
Workforce**



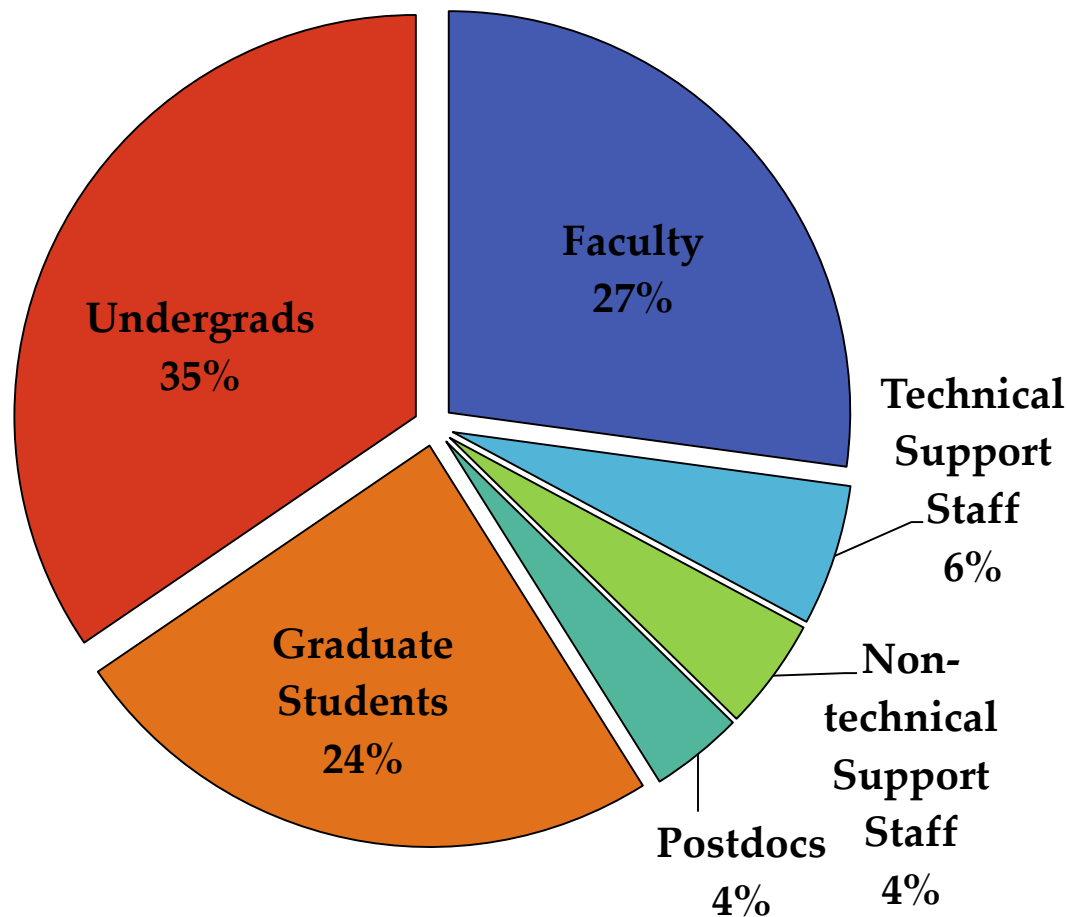
**Economic
Development**



**Quality
of Life**

Building Capacity

EPSCoR: Supporting Workforce Development



Over 5,500 people were directly supported through EPSCoR's RII Track-1 awards in FY 2013.

EPSCoR: Building STEM Capacity



EPSCoR-supported outreach efforts involved over 3,700 K-12 teachers and over 50,900 K-12 students across the nation in STEM activities in FY 2013.



Research Infrastructure Improvement (RII) Awards

- Supports physical, human, and cyber infrastructure at academic institutions in EPSCoR Jurisdictions

Co-Funding

- Joint support of research proposals submitted by EPSCoR-jurisdiction researchers to NSF programs
- PIs submit to NSF programs
- Meritorious proposals that require combined support due to budget limitations are reviewed by EPSCoR for possible co-funding; EPSCoR co-funds those that meet goals of increasing competitiveness and broader impacts

Outreach & Workshops

- Support of outreach activities by NSF program and professional staff; Support of strategic planning and capacity-building workshops
- “Science: Becoming the Messenger” - workshop for researchers to communicate science research

FY13 Co-Funding



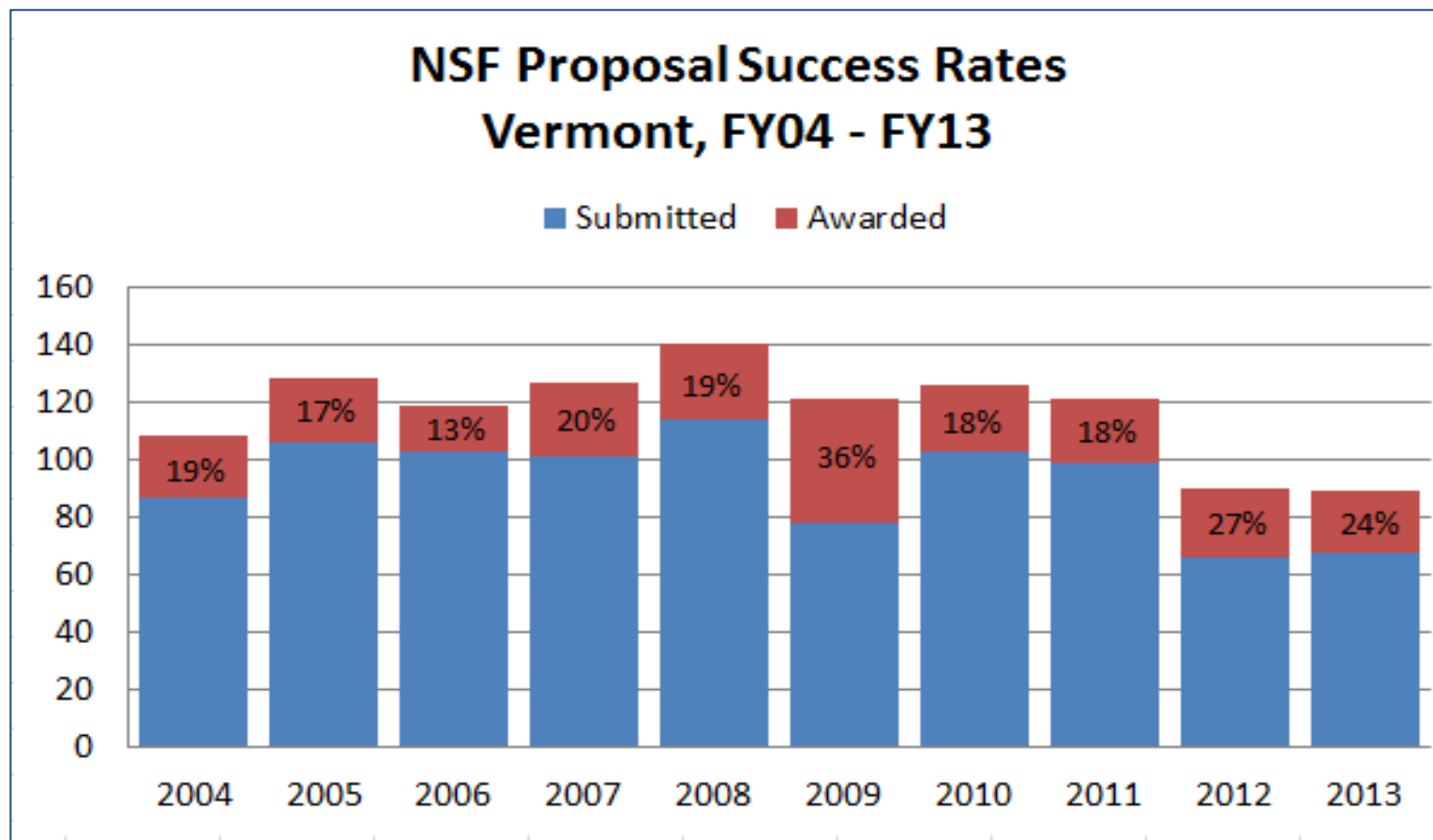
State	#	EPS \$	Total \$
AK	4	601,611	1,562,112
AL	11	1,851,399	4,280,166
AR	7	1,016,019	2,258,937
DE	6	1,113,132	2,752,763
HI	8	730,116	1,618,593
IA	9	1,365,253	2,911,967
ID	9	1,255,495	2,717,016
KS	4	508,806	1,060,582
KY	6	1,314,532	2,820,660
LA	9	1,603,520	8,317,439
ME	4	435,384	1,429,519
MO	11	1,694,546	4,310,824
MS	5	807,009	1,614,027
MT	10	1,455,902	4,853,441
ND	7	1,333,548	4,548,237

State	#	EPS \$	Total \$
NE	7	1,014,362	2,134,021
NH	5	682,500	1,559,929
NM	11	1,572,611	3,496,427
NV	5	437,287	1,129,983
OK	8	1,013,393	2,431,994
PR	2	225,291	500,310
RI	2	450,896	1,400,894
SC	13	1,661,283	4,115,422
SD	5	393,916	806,779
TN	20	1,902,405	5,210,511
UT	11	2,105,715	4,711,715
VI			
VT	2	229,186	458,373
WV	5	760,740	1,717,930
WY	6	831,132	2,594,993



- Reviewed and Recommended for Funding within NSF Directorates and Offices
- Combined leveraged support necessary for funding
- Program Officers contact NSF EPSCoR Office via their Directorate/Office coordinator
- Some characteristics that favor Co-funding:
 - New PIs
 - Multidisciplinary
 - Broaden participation
 - Research for Students/Teachers
 - Collaborative
 - Synergistic w/ NSF
 - Instrumentation
 - Integration of R&E

NSF Proposal Success Rates in Vermont



Finding Funding Opportunities



http://nsf.gov/func Award and Administration Gui... US NSF - Funding

NSF National Science Foundation WHERE DISCOVERIES BEGIN

QUICK LINKS

SEARCH

HOME FUNDING AWARDS DISCOVERIES NEWS PUBLICATIONS STATISTICS ABOUT NSF FASTLANE

Funding

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 Submission

- Grant Proposal Guide
- Grants.gov Application Guide

Award and Administration

- Award and Administration Guide

Award Conditions

Other Types of Proposals

Merit Review

NSF Outreach

Policy Office

Find Funding

Get NSF funding information by [email](#) or [RSS](#).

FUNDING OPPORTUNITY SEARCH

Keyword:*

Search: ☒ Funding Opportunities (program synopses and solicitations) ☐ Award Database (titles and abstracts of previous years' awards)

Search Reset

[Advanced Funding Search](#)

OTHER WAYS TO FIND FUNDING

[A-Z Index](#)
Index of words appearing in the titles of all funding opportunities.

Special Programs

[For Undergraduate Students](#)

[For Graduate Students](#)

[For Postdoctoral Fellows](#)

[For K-12 Educators](#)

[Small Business Programs](#)

[For Veterans](#)

[Broadening Participation](#)

Program Areas

[Crosscutting and NSF-wide](#)

[Biological Sciences](#)

[Computer & Information Science & Engineering](#)

[Education and Human Resources](#)

[Engineering](#)

[Environmental Research & Education](#)

[Geosciences](#)

[International & Integrative Activities](#)

[Mathematical & Physical Sciences](#)

[Social, Behavioral & Economic Sciences](#)

Select

Finding Funding Opportunities



The screenshot shows the NSF website with the following elements:

- Header:** NSF logo, "National Science Foundation WHERE DISCOVERIES BEGIN", and a search bar.
- Navigation Bar:** HOME, FUNDING, AWARDS, DISCOVERIES, NEWS, PUBLICATIONS, STATISTICS, ABOUT NSF, FASTLANE.
- Left Sidebar:**
 - Funding:** 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 Submission (Grant Proposal Guide, Grants.gov Application Guide), Award and Administration (Award and Administration Guide), Award Conditions, Other Types of Proposals (Merit Review, NSF Outreach, Policy Office).
- Main Content:**
 - Crosscutting and NSF-wide Active Funding Opportunities**
 - Text: "This site provides program information for activities sponsored by more than one NSF organization. In addition, all NSF organizations accept proposals that cut across organizational and programmatic boundaries. We suggest that those seeking support for interdisciplinary work not described here consult the NSF program site(s) closest to the science, engineering or education focus of the planned work and contact relevant program officers to discuss submission of a proposal."
 - Filters: Org: Crosscutting and NSF-wide, Status: Active.
 - Checkboxes: Get Crosscutting Program Announcements & Info Updates by Email, RSS.
 - Text: Sorted by Title. Click column headings to sort.
 - Key: Crosscutting, NSF-wide, Grants.gov submission required.
 - Table:**

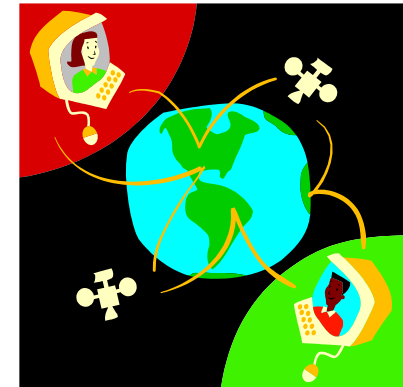
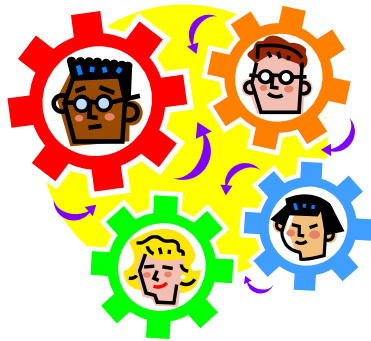
Title	Program Guidelines	Due Dates
Academic Research Infrastructure Program: Recovery and Reinvestment (ARI-R2)	09-562	Current but no longer receiving proposals
ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers	12-584	
Algorithms for Threat Detection (ATD)	12-502	Waiting for new publication
Building Community and Capacity for Data-Intensive Research in the Social, Behavioral, and Economic Sciences and in Education and Human Resources (BCC-SBE/EHR)	14-517	
Catalyzing New International Collaborations (CNIC)	13-605	Full Proposal: April 22, 2014 Full Proposal: July 22, 2014

Don't forget
about Student
and Postdoc
Opportunities!

Highlights of Current NSF Opportunities



- Innovation/Entrepreneurship
- Workforce Development
- International Science and Engineering



Emphasis on Innovation/Entrepreneurship



Small Business Innovative Research (SBIR) (NSF 14-539)

Phase I: \$150k for 6 months—proof of concept

Phase II: \$750k for 2 years—advance technology
towards commercial deployment

Small Business Technology Transfer Research (STTR) (NSF 14-540)

Phase I: \$225k for 1 year: Prove technical and
commercial merit of innovation

Phase II: \$750k for 2 years: Develop product prototype

Innovation Corps (I-Corps Teams) (NSF 12-602)

Supplemental support for NSF-funded researchers to accelerate innovation that can attract subsequent third-party funding. Public-Private partnerships

Emphasis on Workforce Development



Graduate Research Fellowship Program (GRFP) (NSF 13-584)

Up to three years of support for a research-based master's or doctoral degree.

SBE Post-doctoral Research Fellowships (SPRF) (NSF 12-591)

Directorate for Social, Behavioral and Economic Sciences (SBE)

- Broadening Participation (SPRF-BP)
- Interdisciplinary Research in Behavioral and Social Sciences (SPRF-IBSS)

Faculty Early Career Development Program (CAREER) (NSF 14-532)

Junior faculty teacher-scholars who demonstrate outstanding research, excellent education and the integration of education and research.

- Awards of \$400,000 for 5-years
- Doctoral degree awarded before proposal deadline
- Untenured until October 1 following the proposal deadline
- No previous CAREER award
- Tenure-track (or equivalent) at an accredited institution that awards degrees in a field supported by NSF or non-profit non-degree granting organization

Emphasis on International Opportunities



International Research Experiences for Students (IRES) (NSF 12-551)

Globally-engaged U.S. science and engineering students, active research participation by students

Graduate Research Opportunities Worldwide (GROW)

Graduate Research Fellowship Program (GRFP) recipients
Collaboration: NSF International Partners and USAID

Partnerships for Enhanced Engagement in Research (PEER) Science

Funding for collaborators in developing countries for joint projects.

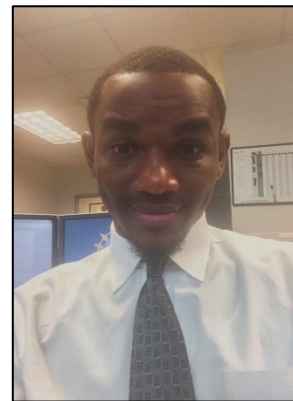
NSF researchers may receive supplements to existing awards

Funded by USAID, administered by the National Academies of Science

Partnerships for International Research and Education (PIRE)

Catalyzes a higher level of international engagement in the U.S. science and engineering community by supporting projects in which research and education advances could not occur without international collaboration.

The EPSCoR Team at NSF



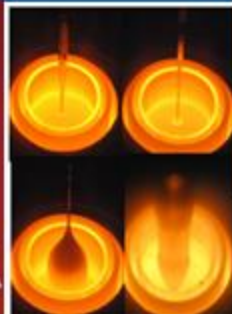


Backup Slides



- Established by NSB Resolution in 1978
- Eligibility: States receiving less than 0.75% of NSF Research and Related Activities (R & RA) funding, averaged over three years
- Purpose: To build sustainable capacity of educational institutions in those states to compete more successfully in NSF and other research programs
- Active EPSCoR or EPSCoR-like programs in FIVE federal agencies

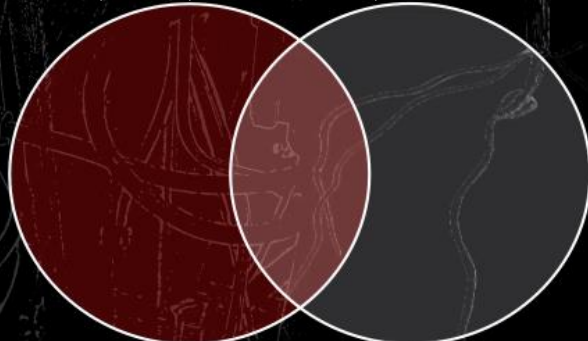
Workshops: Community Catalysis



Workshop on Germanium-Based Detectors and Technologies - 2014

14-17 September 2014
Muenster University Center (MUC),
The University of South Dakota

International Workshop on Engineered Crops
April 28-29, 2014, Des Moines, Iowa



Engineering

Plant Sciences

LIVING ON EARTH III
VIRGIN ISLANDS • 2012

A photograph of several bright orange, tube-like sponges growing on a rocky seabed.

Research Infrastructure Improvement



- State-based capacity-building research-driven program
- Governance led by State Committee, aligned with State S&T plan
- State co-investment
- Research driven; multidisciplinary
 - Multi-institutional
 - Close interaction between NSF and EPSCoR community
- Includes Education & Outreach, Economic Development, Broadening Participation
- **Managed cooperatively with NSF**
 - More reporting, more oversight
 - Annual funding increment is contingent on satisfactory performance
 - Please assist the state leadership and administrative team when they ask for information
 - YES we need it, YES it is a lot, YES we have firm deadlines