A Partnership to Provide Transparency and Meet the Needs of the Research Community

October 2010

Research.gov...

- Supports the needs of institutions and researchers
  - Modernization of FastLane providing next generation grants management capabilities to meet the unique needs of the research community
  - Provides a menu of information and services for multiple Federal agencies in one place
  - Intuitive, easy-to-use environment to conduct business with the Federal Government
- Increases transparency of Federal research spending and outcomes
- Leverages government-wide standards

Research.gov: Working Together

- Partnerships with the research community
- Partnerships with other Federal agencies
- Partnerships with Federal community to leverage govenerment-wide standards
- Leading consortium of federal research agencies in support of the Government-wide Grants Management Line of Business initiative

Government-wide Grants
"FIND" Grant Opportunities
"APPLY" for Grants

NSF Community: NSF-oriented services for Institutions and researchers

Prepare and submit:

- Proposals
- Financial Transactions and Reports
- Project Reports
- Requests related to awards

Research Community-Partnership of research agencies providing research-focused services for:

- Institutions and Researchers
- Key Stakeholders
- NSF Staff/Program Staff
- General Public

Mission-focused services to:

- Plan programs
- Accept proposals
- Conduct merit review
- Manage awards
- Publish results
- Find policies, news, and events
- Leverage government-wide standards

Research.gov Services

Public Facing Services:

- SEE Innovation (New!)
- Research Spending & Results
- Research Headlines & Events
- Policy Library (Government-wide)

Research Community Services:

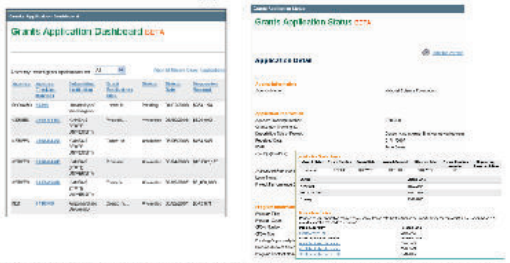
- Project Outcomes Report for the General Public (New!)
- Grants Application Status
- Federal Financial Reports
- Manage institution and user accounts
- Research Performance Progress Reports (planning stage)
- Application Submission Web Service (now in pilot)

- Manage awards
- Publish results
- Find policies, news, and events
- Leverage government-wide standards

Current Research.gov Services

Current Grantee Services Available on Research.gov

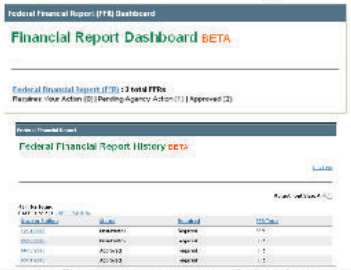
Grants Application Status



- Allows Sponsored Projects Offices (SPOs) and Principal Investigators (PIs) to check the status of grant applications submitted to:

NSF USDA/NIFA DoD/ARO

Federal Financial Report



- Online service that allows organizations to prepare and submit the new government-wide standard financial report.
- Research.gov is now the standard mechanism for submitting financial reports to NSF.

Current Public Services Available on Research.gov

Research Spending & Results

- Find detailed award information for NSF and NASA including publication citations, award abstracts, award recipient, award amount and funds obligated to date and more!
- Search specifically for NSF Recovery Act Awards.
- Use quick or advanced search to find detailed award information by institution, field of science, state, congressional district, and more!

Policy Library

- Integrated access to federal and agency-specific policies, guidelines, procedures, OMB circulars, and instructions that applicants need to conduct grants business.

Headlines

- View research headlines and articles to stay up-to-date on news and discoveries in the research community.
- Headlines and events are currently available from NSF, NASA, and USDA/NIFA.

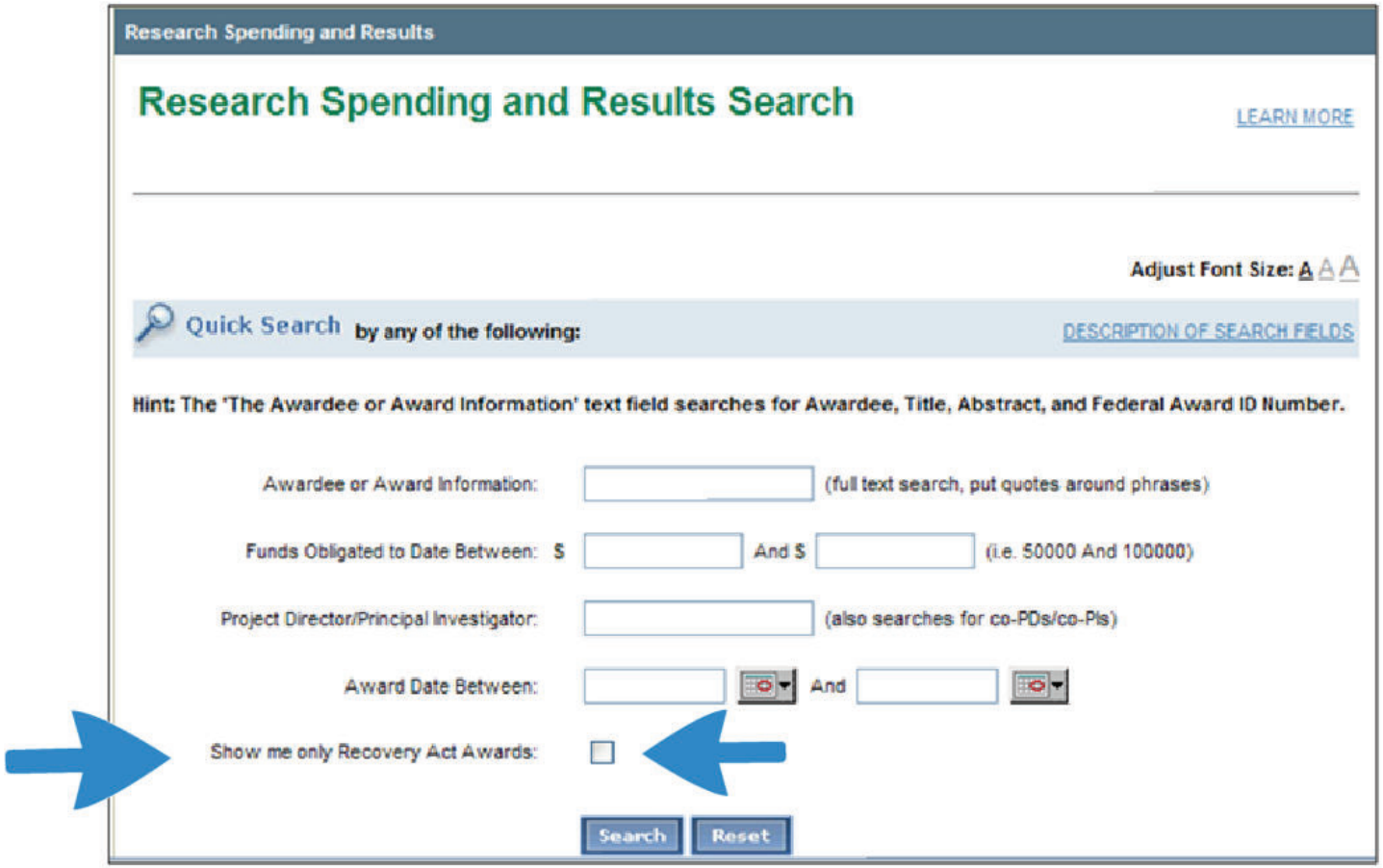
New

Research Community Feedback

Now in Pilot!

Application Submission Web Services

Research Spending & Results



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- Use quick or advanced search to find detailed award information by institution, field of science, state, congressional district, and more!

Policy Library

Research.gov Preview

POWERING KNOWLEDGE AND INNOVATION

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October 19, 2010

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POLICY SEARCH

Search

POLICY LIBRARY

- Overview
- Proposal and Award Policies and Procedures Guide
- Related Resources

- Who We Are
- Service Offerings
  - Research Spending & Results
  - Policy Library
  - About Grants Application Status
  - About Federal Financial Report
  - About Project Outcomes Reports
  - About User Management
- News
- SEE Innovation

APPLY FOR GRANTS

- Grants.gov
- NSF FastLane
- NASA Nspires

Policy Library

Research.gov's Policy Library provides a resource to explore Federal and agency-specific policies, guidelines and procedures for use by Federal agencies and the awardee community.

Learn more

Search by Topic Area

Select a topic below to begin your search:

- Nondiscrimination
- Live Organisms
- Environmental Standards
- Allegations of Misconduct
- US Flag Air Carriers
- Trafficking in Persons

Search by Policy Type

Select a type of policy below to begin your search:

- Statutes
- Regulations
- OMB Circulars
- Draft Policies
- Policies and Procedures
- Terms & Conditions

Policies and Procedures

Provides informational documents about the National Science Foundation's proposal and award process.

Proposal and Award Policies and Procedures Guide

- Part I: Grant Proposal Guide (GPG)
- Part II: Award & Administration Guide (AAG)

Grants.gov Application Guide

NSF Merit Review

Related Resources

Links to Federal Councils and organizations that provide resources and guidance for research community and federal agencies.

View Related Resources

Related Resources

For additional information, access the following sites:

- Office of Science & Technology Policy
- Science & Engineering Statistics
- Federal Demonstration Partnership

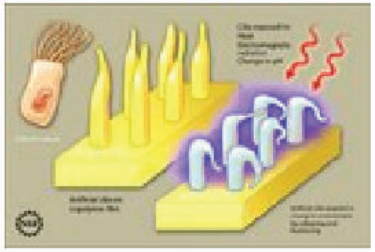
More

- Integrated access to federal and agency-specific policies, guidelines, procedures, OMB circulars, and instructions that applicants need to conduct grants business.

Headlines

Headlines

September 29, 2010 View All Headlines



Cilia Revolution

September 23, 2010 - University of Southern Mississippi scientists recently imitated Mother Nature by developing, for the first time, a new, skinny-molecule-based material that resembles cilia, the tiny, hair-like structures through which organisms derive smell, vision, hearing and fluid flow. More

Geek peek: Sailing the high seas with Dr. Josh Willis

September 23, 2010 - They're scientists. They work for NASA. They're cool. But what makes them tick? Holly Shaftel and Nicholas Derian spoke to Dr. Josh Willis, an oceanographer at NASA's Jet Propulsion Laboratory, to find out. More

NIFA Awards Help Colleges and Universities Serve Hispanic Students

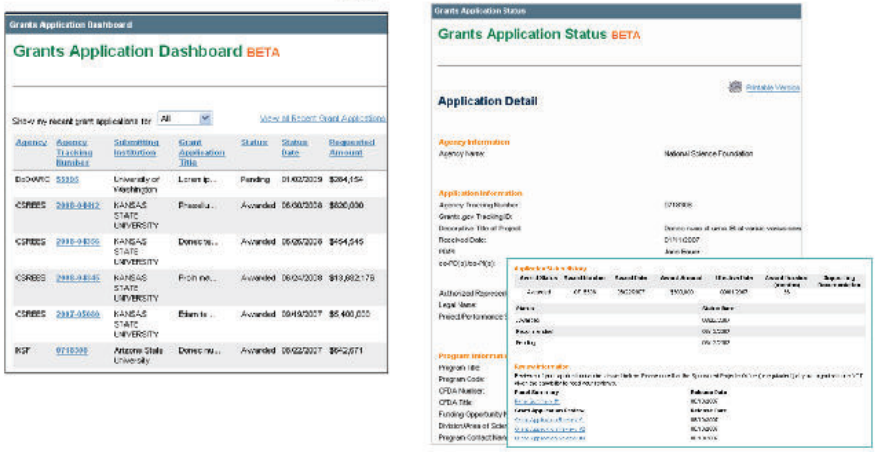
September 15, 2010 - USDA's National Institute of Food and Agriculture (NIFA) awarded 31 grants to Hispanic-serving institutions (HSI) to enhance the ability of these colleges and universities to serve underserved students and develop a skilled work force. More

- View research headlines and articles to stay up-to-date on news and discoveries in the research community,
- Headlines and events are currently available from NSF, NASA, and USDA/NIFA.

Current Researc

Current Grantee Services Available on Research.gov

Grants Application Status



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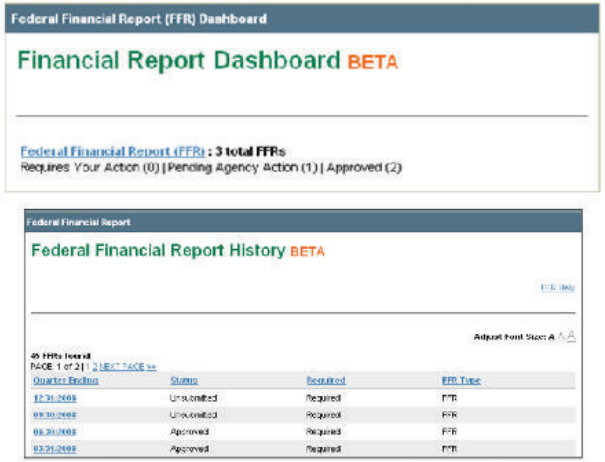
Federal Financial Report



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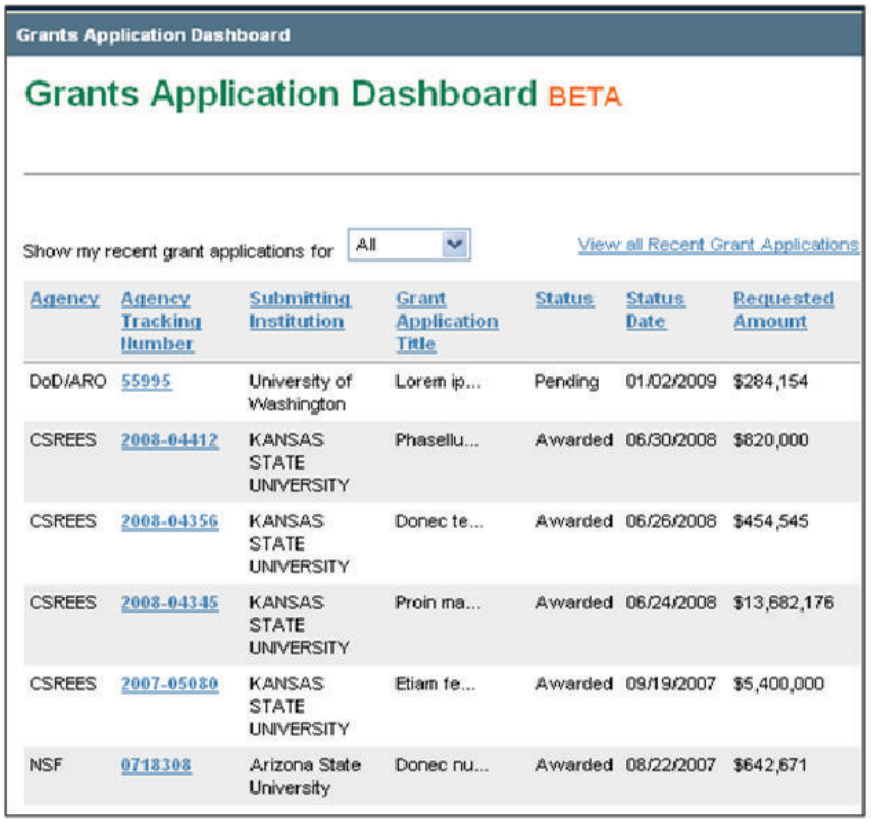
Grants Application Status



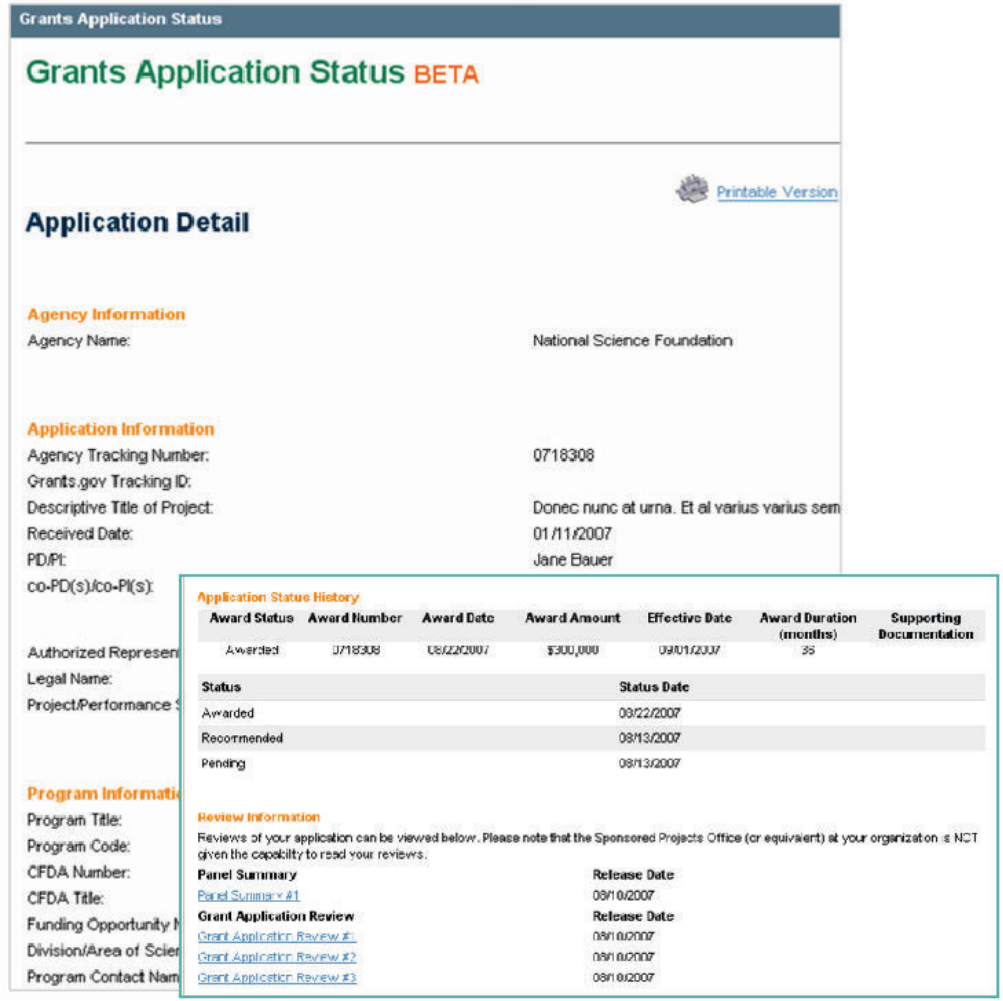
Grants Application Dashboard

Grants Application Dashboard BETA

Show my recent grant applications for All

View all Recent Grant Applications

Agency	Agency Tracking Number	Submitting Institution	Grant Application Title	Status	Status Date	Requested Amount
DoD/ARO	55995	University of Washington	Lorem ip...	Pending	01/02/2009	$284,154
CSREES	2008-04412	KANSAS STATE UNIVERSITY	Phasellu...	Awarded	06/30/2008	$820,000
CSREES	2008-04356	KANSAS STATE UNIVERSITY	Donec te...	Awarded	06/26/2008	$454,545
CSREES	2008-04345	KANSAS STATE UNIVERSITY	Proin ma...	Awarded	06/24/2008	$13,682,176
CSREES	2007-05080	KANSAS STATE UNIVERSITY	Etiam fe...	Awarded	09/19/2007	$5,400,000
NSF	0718308	Arizona State University	Donec nu...	Awarded	08/22/2007	$642,671



Grants Application Status

Grants Application Status BETA

Printable Version

Application Detail

Agency Information

Agency Name: National Science Foundation

Application Information

Agency Tracking Number: 0718308

Grants.gov Tracking ID:

Descriptive Title of Project: Donec nunc at urna. Et al varius varius sem

Received Date: 01/11/2007

PD/PI: Jane Bauer

co-PD(s)/co-PI(s):

Authorized Represen

Legal Name:

Project/Performance S

Program Informati

Program Title:

Program Code:

CFDA Number:

CFDA Title:

Funding Opportunity N

Division/Area of Scier

Program Contact Nam

Application Status History

Award Status	Award Number	Award Date	Award Amount	Effective Date	Award Duration (months)	Supporting Documentation
Awarded	0718308	08/22/2007	$300,000	09/01/2007	36	

Status	Status Date
Awarded	08/22/2007
Recommended	08/13/2007
Pending	08/13/2007

Review Information

Reviews of your application can be viewed below. Please note that the Sponsored Projects Office (or equivalent) at your organization is NOT given the capability to read your reviews.

Panel Summary	Release Date
Panel Summary #1	08/10/2007

Grant Application Review	Release Date
Grant Application Review #1	08/10/2007
Grant Application Review #2	08/10/2007
Grant Application Review #3	08/10/2007

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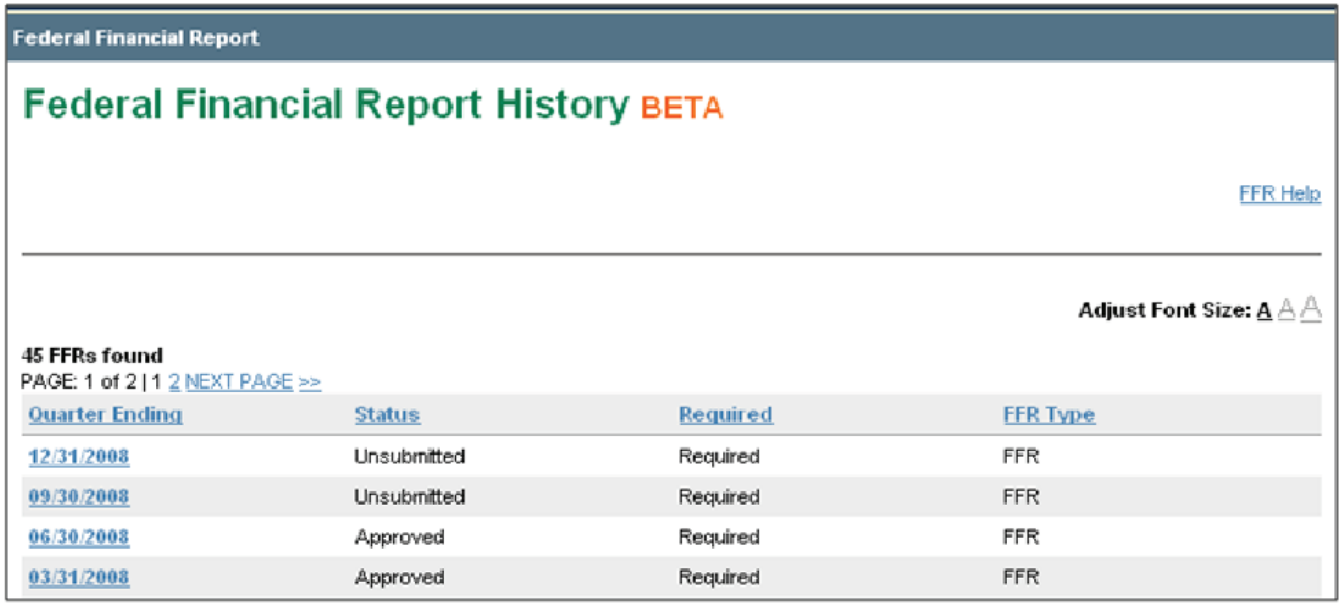
Federal Financial Report



Quarter Ending	Status	Required	FFR Type
12/31/2008	Unsubmitted	Required	FFR
09/30/2008	Unsubmitted	Required	FFR
06/30/2008	Approved	Required	FFR
03/31/2008	Approved	Required	FFR

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- Research.gov is now the standard mechanism for submitting financial reports to NSF.

New Research.gov Services

Business Drivers forNew Service Implementation

- Research community feedback
- Reporting Requirements
- Open government
(transparency, participation, and collaboration)

Research Community Feedback

Now in Pilot!

Application Submission Web Services

Coming Soon!

Enhanced Research.gov Services

Application Submission Web Service Pilot

NSF is working with institutions to pilot an application submission service providing applicants with a seamless experience of submitting proposals via web services to Research.gov and Grants.gov.

Currently piloting with seven institutions using Cayuse:

- California Institute of Technology
- George Washington University
- New Mexico University
- New York University
- University of Delaware
- University of New York
- University of Texas at Austin

Prepare and submit applications directly to NSF using your institutions' systems!

Consistent with Grants.gov framework for system-to-system!

Leverages institutions' investments in system solutions

9 successfully submitted proposals and positive feedback

Next Steps: Expand pilot to other interested institutions and partner with additional interested system providers including COEUS, InfoEd, and ERA Software

If interested in participating, contact NSF at feedback@research.gov

Research Community Feedback

Now in Pilot!

Application Submission Web Services

Coming Soon!

Enhanced Research.gov Services

Enhanced Research Spending & Results to allow more:

- View and download more search results (up to 6,000)
- Export more details about awards such as abstracts
- Conduct faster searches with more intuitive searches

Enhanced Policy Library to allow more:

- Find the government-wide and agency-specific policies and guidelines you need more quickly and easily:
- New robust keyword search or by intuitive categories, such as Policy Type (Statutes) or Topic Area (environmental standards)
- Offers quick links to other Policy-related websites

New enhancements to allow you to:

- Stay up-to-date through new notification features, such as RSS feeds and email alerts
- Customize your Research.gov homepage and profile
- Easily find information on Research.gov with new intuitive keyword search

Reporting Requirements

Available Now!

- Project Outcomes Report for the General Public

Planning Stage!

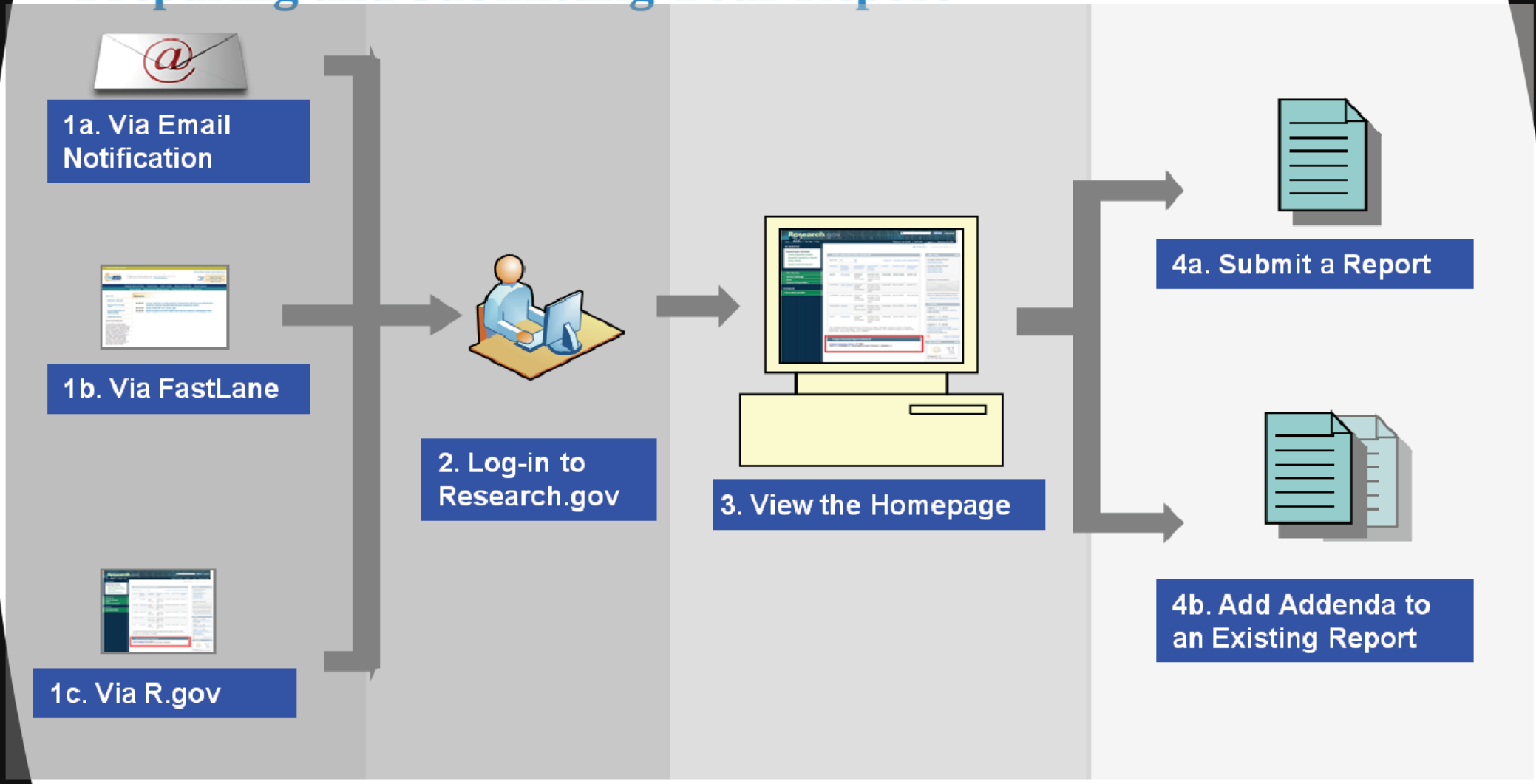
- Research Performance Progress Report

Project Outcomes Report for the General Public

- America COMPETES Act requirement specific to NSF
- Report serves as a brief summary prepared by the PI specifically for the public, describing the nature and outcomes of the project
- Effective for new awards/funding increments to existing awards made on or after January 4, 2010
- Required in addition to final project reports which will continue to go through FastLane
- Will not be reviewed or approved by NSF and will be posted for public with other award information in Research.gov's Research Spending and Results Service

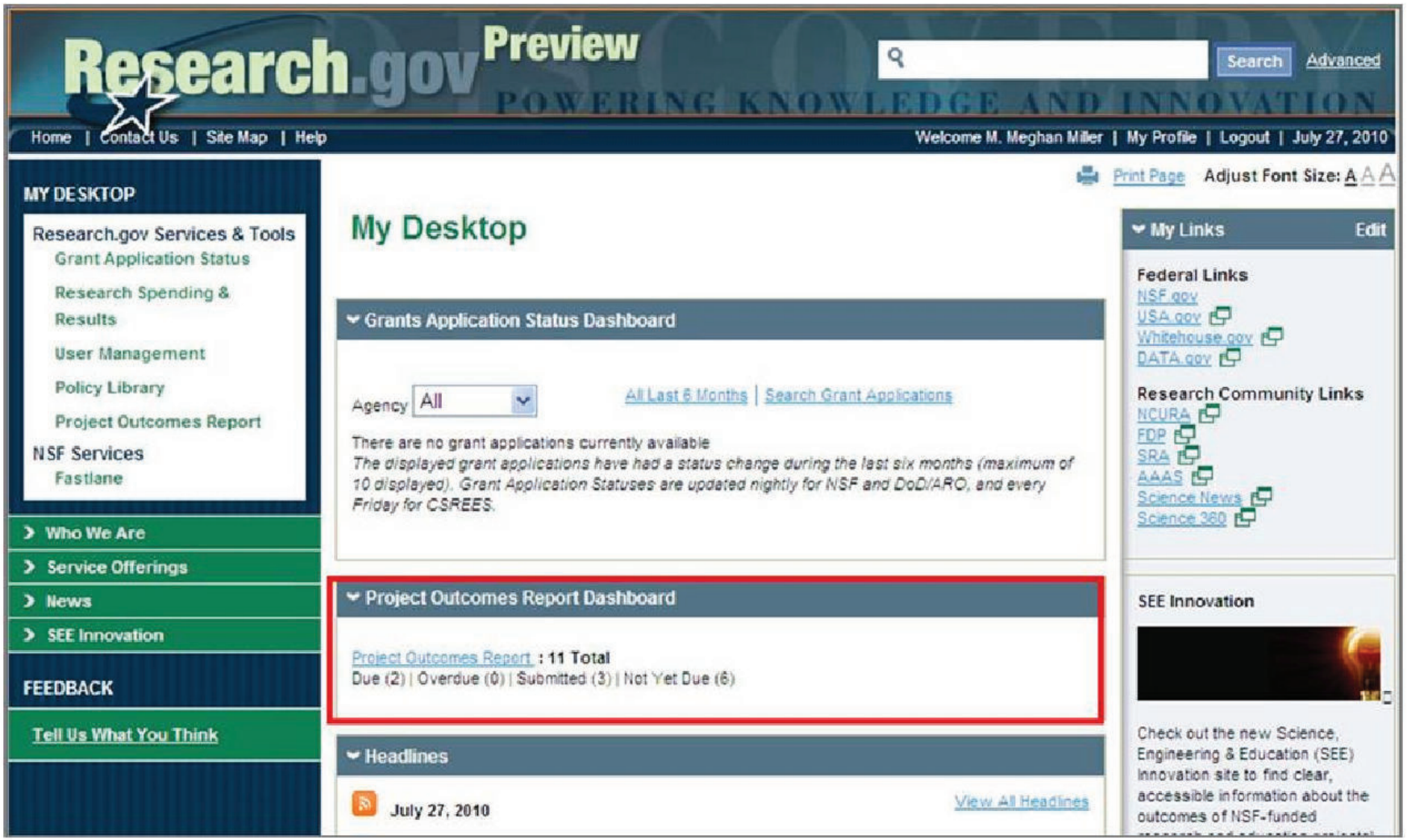
Available now! PIs and co-PIs will use Research.gov to prepare and submit reports (preview.research.gov)

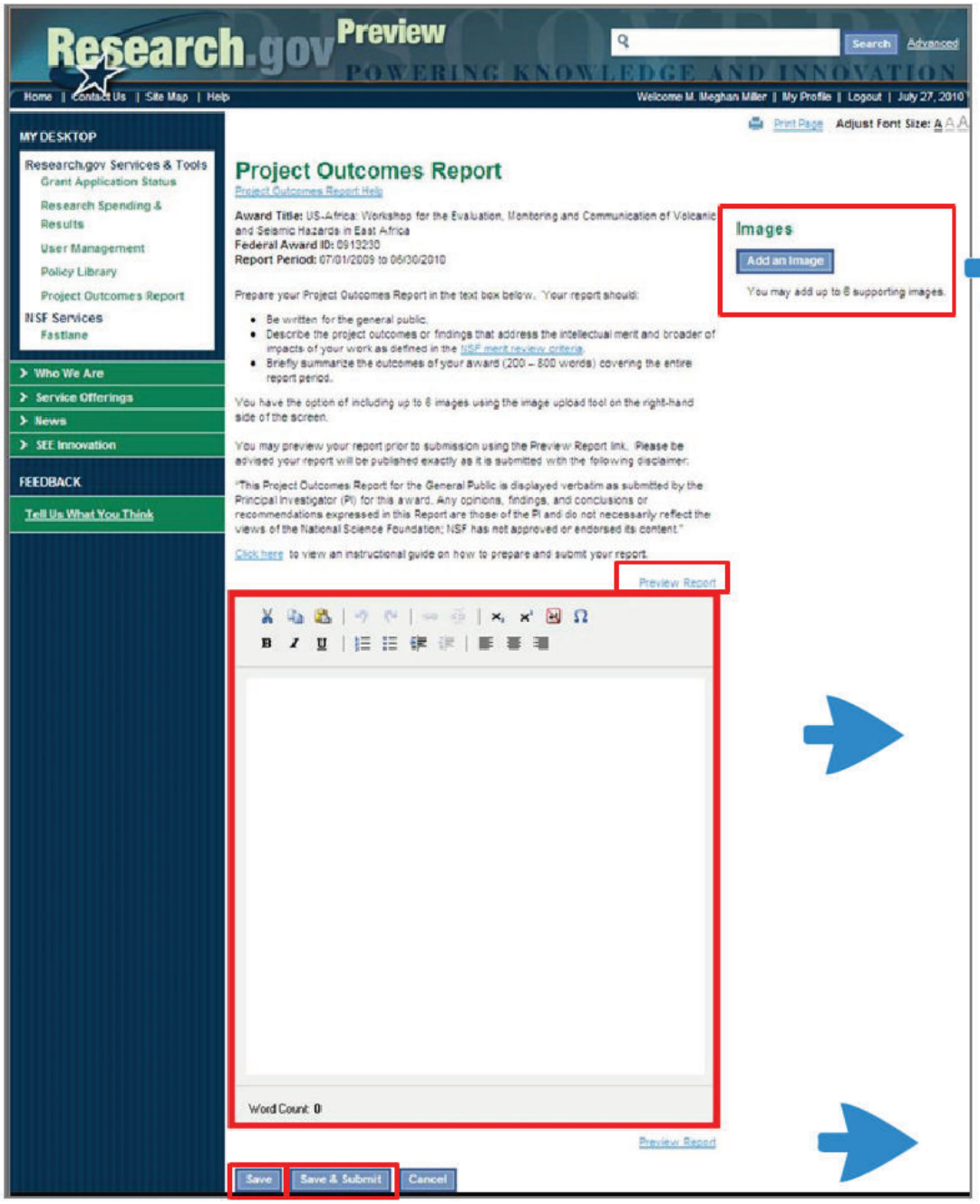
Preparing and Submitting Your Report



PI/co-PI will:

- Log into Research.gov (preview.research.gov) with FastLane log in: Last Name, NSF ID, and Password
- See the Project Outcomes Report Dashboard on homepage the number and status of required reports (Due, Overdue, Submitted, Not yet due)





Upload up to 6 images (optional)

Prepare Report:

- Address the intellectual merit and broader impacts of the work as defined in the NSF merit review criteria.
- Be brief: 200-800 words
- Be written for the lay reader
- Can include hyperlinks to PI/Co-PI website

Preview the report before submitting

Save report and return late to finish or submit

View Submitted Project Outcomes Report through Research Spending & Results

Research Spending & Results

Back to Results

Award Detail

Awardee:	UNIVERSITY O
Doing Business As Name:	University of C
PD/PI:	Trevor D Price (773) 702-517 pricet@uchica
Award Date:	01/29/2007
Funds Obligated to Date:	$ 365,400 FY 2010=$19 FY 2008=$5, FY 2007=$34
Award Start Date:	02/01/2007
Award Expiration Date:	08/31/2010
Transaction Type:	Grant
Agency:	NSF
Awarding Agency Code:	4900
Funding Agency Code:	4900
CFDA Number:	47.074
Primary Program Source:	490100 NSF RE
Award Title or Description:	Analysis of reg
Federal Award ID Number:	0640139
DUNS ID:	00 136

Cong. District: 01

Abstract at Time of Award

The goal of this project is to document the bird diversity of the Himalayas of north-east India, and to ask why more than twice as many species are present there than in the western Himalayas of India. A team of Indian scientists and students from the Wildlife Institute of India and the University of Chicago, USA, will work at several sites across the Himalayas, surveying densities and distributions of all species. In the laboratory, DNA sequencing methods will be used to evaluate the phylogenetic relationships among the species.

The study tackles a longstanding scientific problem: What are the historical and ecological causes of the difference in numbers of species between locations? It uses a novel approach to do this by studying patterns of decline in species numbers from east to west within many different genera of birds, and asking if the patterns are similar in each genus. The eastern Himalayas contain perhaps the second highest concentration of species in the world, but have been scarcely studied for various logistical reasons. Many animal and plant species remain to be discovered, including perhaps some new bird species. The work thus has broad conservation and educational significance.

Publications Produced as a Result of this Research

Cardoso, G. C.;Price, T. D.; "Community convergence in bird song" EVOLUTIONARY ECOLOGY, v.DOI 10., 2009, p.

Phillimore, A. B.;Price, T. D.; "Ecological influences on the temporal pattern of speciation." SPECIATION AND PATTERNS OF DIVERSITY, v. , 2009, p.240-256

Rundell, R. J.;Price, T. D.; "Adaptive radiation, nonadaptive radiation, ecological speciation and nonecological speciation" TRENDS IN ECOLOGY AND EVOLUTION, v.24, 2009, p.394-399

Price, T. D.;Kirkpatrick, M.; "Evolutionarily stable range limits set by interspecific competition" PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES, v.276, 2009, p.1429-1434

Sol, D.;Price, T. D.; "Brain size and the diversification of body size in birds" AMERICAN NATURALIST, v.172, 2008, p.170-177

Phillimore, A. B.;Price, T. D.; "Density-dependent cladogenesis in birds" PLOS BIOLOGY, v.6, 2008, p.483-489

Price, T. D.;Phillimore, A. B.; "Reduced major axis regression and the island rule" JOURNAL OF BIOGEOGRAPHY, v.34, 2007, p.1998-1999

Project Outcomes Report

Disclaimer

This Project Outcomes Report for the General Public is displayed verbatim as submitted by the Principal Investigator (PI) for this award. Any opinions, findings, and conclusions or recommendations expressed in this Report are those of the PI and do not necessarily reflect the views of the National Science Foundation; NSF has not approved or endorsed its content.

One of the most basic of ecological questions asks: why are more species found in some places

Project Outcomes Report

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One of the most basic of ecological questions asks: why are more species found in some places of the world than others? Over the past decade, advances in our knowledge of (1) the present day distribution of species and climate, (2) relationships among those species (from DNA sequences) and (3) earth's history means that we can get much more rigorous answers to this question. In the work under review, we set out to collect these kinds of data to understand the cause of a more than two fold decline in the number of bird species breeding from the eastern Himalayas (where up to 600 species breeding in a 200 x 200km square) to the western Himalayas. The strength of the system is that >120 species are found in both locations, so we can study geographical variation within species, as well as assess the ecological attributes of those species with large ranges.

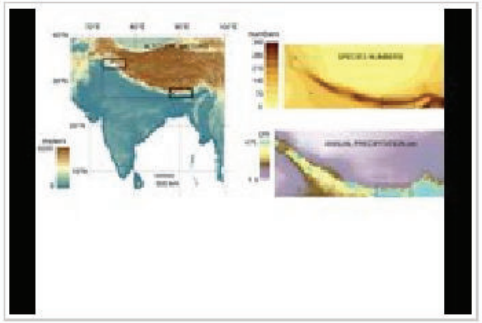
As the conceptual basis to this study (i.e., intellectual merit), we argued that any understanding of causes of differences in species numbers between locations should begin by asking: what is it that sets the range limits of many species (i.e., what is it about the conditions beyond the range limit that prevent species from establishing there). This is particularly effective for the Himalayas, because species not only have geographical range limits, but also altitudinal ones, and these kinds of limits can be compared. First, on the basis of theoretical work, we noted that understanding of range limits almost certainly requires an understanding of resources (notably food) are responding to underlying climatic variables.

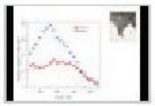
The eastern Himalayas are particularly wet, and also warmer than the western Himalayas, and the big disparity in species numbers comes because certain climates are not experienced in the west at all; forest species below 2000 m decline massively from east to west, and 'open' species show no decline at all. However, many forest species do have ranges that extend from east to west. A critical question is whether those species with ranges that fail to go west are closely related to each other (and hence share some historical 'constraint'), or whether close relatives often differ in range size. We find the latter is the case: many closely related groups contain one species that lives in higher, colder, drier climates, and another than lives lower down, and it is the higher up one that has a large geographical range.

One of the more remarkable aspects of our work is how much we are learning the basic natural history, particularly of the little-known eastern Himalayas, which may have the second highest biodiversity in the world (after the northern Andes. By incorporating DNA analyses, we are finding multiple *cryptic* species in some groups (species which are very similar, but deeply genetically divergent). In this work, we are able to integrate both undergraduate and graduate students from both the US and India into both field and lab studies. The global perspective is needed to understand conservation issues, and to have much hope of conserving diversity in a region which is (1) amenable to conservation issues but (2) under considerable land and population pressure.

Last Modified: 09/05/2010
Modified by: Trevor D Price

Images (1 of 4)





Reporting Requirements

Available Now!

- Project Outcomes Report for the General Public

Planning Stage!

- Research Performance Progress Report

Coming Soon!

- The Research Performance Progress Report (RPPR) was approved by The Office of Management and Budget and The White House Office of Science and Technology Policy (OMB/OSTP) in April 2010 for agency use.
  - Each Federal research agency must post policy or an implementation plan on the NSF and Research Business Model (RBM) websites within nine months after issuance of the policy direction on its use of the RPPR.
- NSF and NASA are partnering to jointly implement RPPR for the benefit of the research community.
- Will be implemented via use Research.gov to provide a new online service for PIs to prepare and submit reports using this new format.

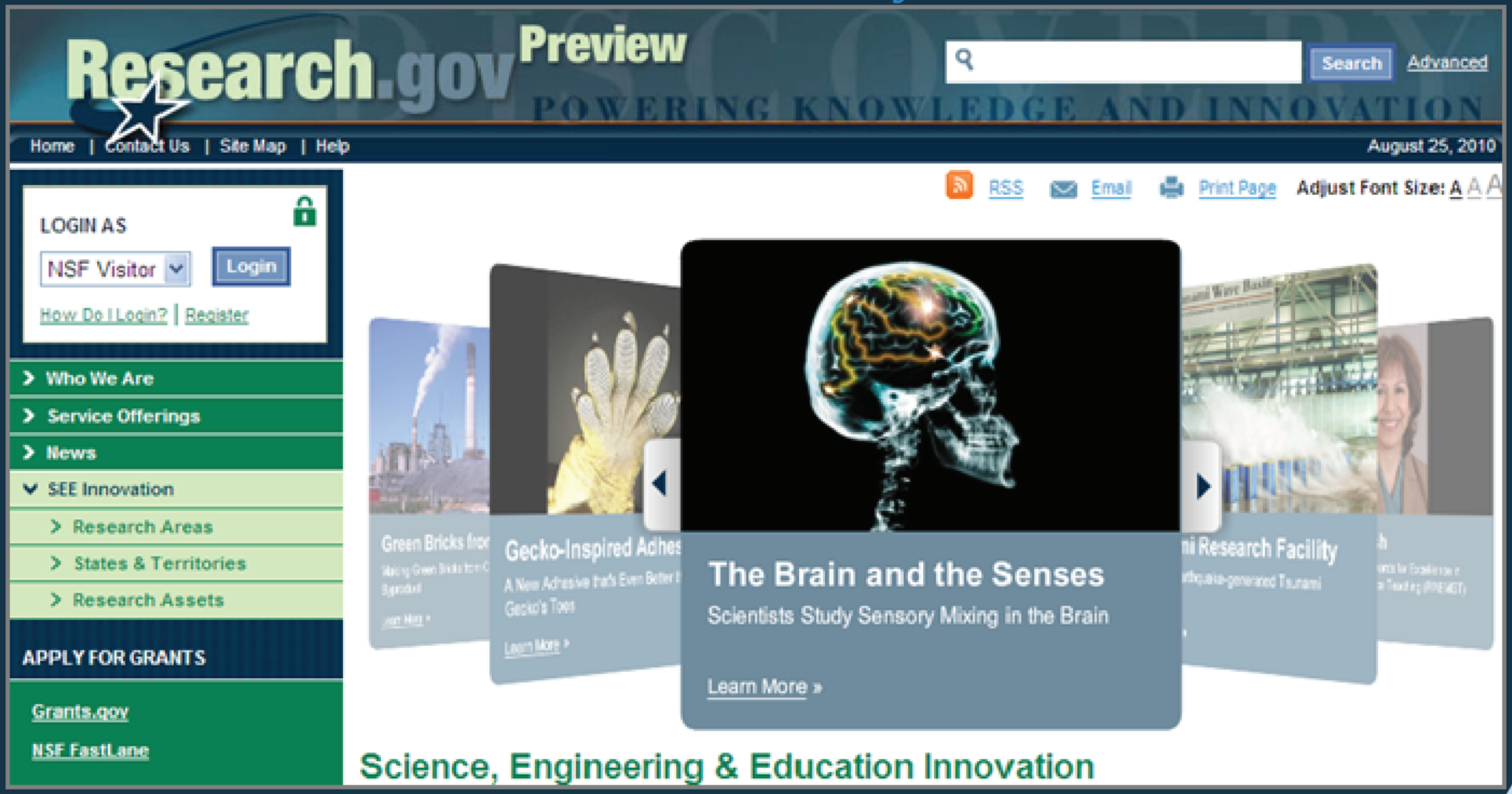
Research Performance Progress Report

Open government
(transparency, participation, and collaboration)

New!

Science, Engineering & Education Innovation
(SEE Innovation)

See how NSF investments foster learning, discovery, and breakthroughs that advance the frontier of knowledge and benefit society



Available to explore at www.research.gov/seeinnovation

Research.gov Preview

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May 13, 2010

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  - Research Assets

APPLY FOR GRANTS

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- NASA Nspires

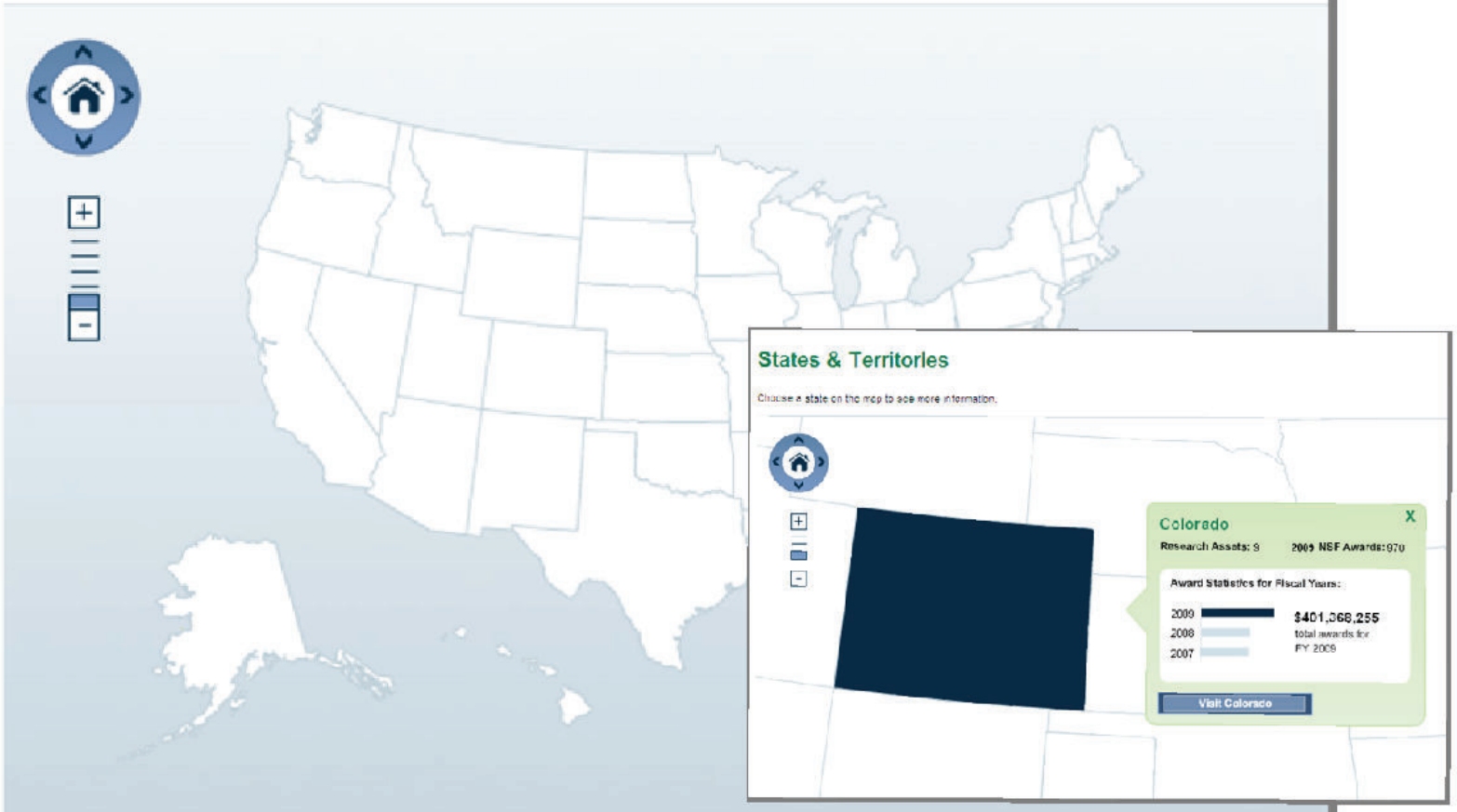
FEEDBACK

- Tell Us What You Think

National Science Foundation

States & Territories

Choose a state on the map to see more information.



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August 25, 2010

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      - Award Highlights
      - Local Research Assets
      - People of Distinction
      - Award Statistics
  - Research Assets

APPLY FOR GRANTS

Grants.gov

NASA Nspires

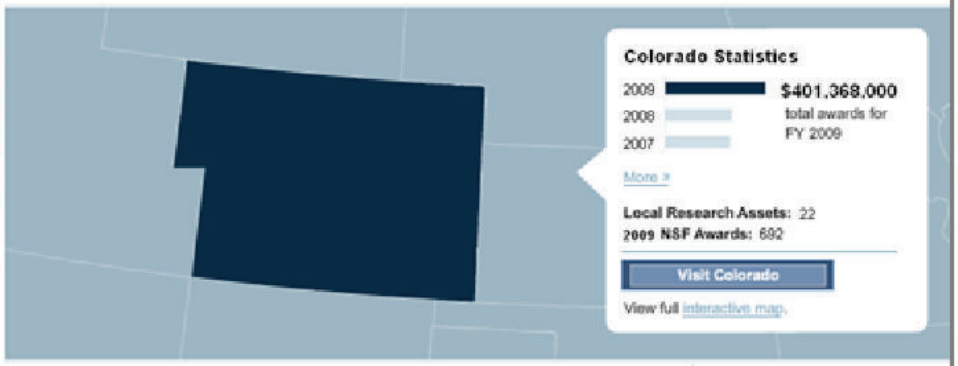
FEEDBACK

Tell Us What You Think

National Science Foundation

Colorado

Go to: Colorado



Colorado Statistics

2009 $401,368,000 total awards for FY 2009

2008

2007

More »

Local Research Assets: 22

2009 NSF Awards: 692

Visit Colorado

View full interactive map.

Award Highlights

Bedrock Ice Cores Yield Insight into Past World Climate

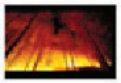
After years of concentrated effort, scientists from the North Greenland Eemian Ice Drilling (NEEM) project hit bedrock more than 8,300 feet below the ...

Research Areas: Polar, Earth & Environment

Solar Home Combined Heating and Power System

Cool Energy, Inc. has created a low temperature engine that allows a rooftop solar system to create both heat and energy for a household....

Research Areas: Engineering



Reducing Our Carbon Footprint With Fire

Controlled burns used by forest managers to reduce underbrush release less carbon dioxide than wildfires....

Research Areas: Earth & Environment

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Local Research Assets

S-Pol Radar

S-Pol radar is an advanced, transportable, ground-based weather radar....

Institution: University Corporation for Atmospheric Research (UCAR)

Type: Facilies & Networks

Electra Doppler Radar (ELDORA)

The Electra Doppler Radar (ELDORA) is an aircraft-mounted airborne, dual beam, meteorological research radar....

Institution: University Corporation for Atmospheric Research (UCAR)

Type: Facilies & Networks

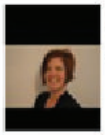
Integrated Sounding Systems (ISS)

Integrated Sounding Systems (ISS) are self-contained meteorological observation systems that combine surface, sounding, and remote sensing instruments...

Institution: University Corporation for Atmospheric Research (UCAR)

Type: Facilies & Networks

People of Distinction



Carrie Heaney
Mathematics
Aurora, Colorado

Aaron Sams
Science
Woodland Park, Colorado

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Recent Awards & Abstracts

WCRC Forward Funding Year 1-4: Collaborative Research: Center for Integrative Materials Joining Science for Energy Applications

VERY LARGE SCALE INTEGRATED MEMS FOR MASSIVELY PARALLEL SCANNING PROBE NANOLITHOGRAPHY

Electrification and Lightning in Convective and Mesoscale Precipitation

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HD Movie Guides Travelers through Wormhole

NSF Award: ESP-AST: Black Hole Visualization for the World (University of Colorado at Boulder)

State: Colorado

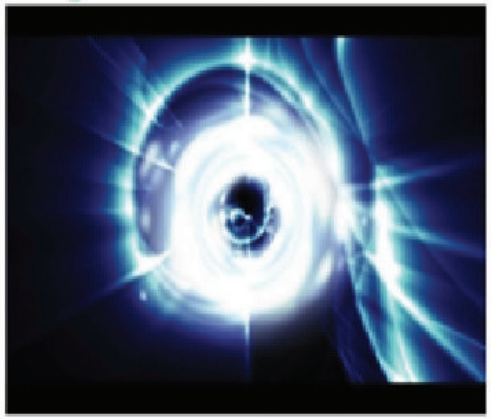
Congressional Districts: Colorado District 02

Research Areas: Education, Physics

A new high-definition movie created by University of Colorado researchers shows what it would be like to pass through a wormhole. The viewer journeys through a black-hole horizon down to the inner horizon, where some believe that a traveler would be burned up by radiation. However, in this electrically charged black hole (technically, a Reissner-Nordstrom hole), it is possible to avoid encountering the singularity directly. Steering a course through the mathematical solution into the wormhole, and linking into a time-reversed white hole, the traveler emerges into a speculative universe. Possible destinations include a distant part of our own universe and an entirely different universe. This fascinating exploration is based on a mathematical work whose reality in the real world is still debated.

This is the first realistic visualization carried out in a wormhole. In the future, such high-performance, scientifically accurate, real-time visualizations could become a central component of science education, especially for relativity physics, where everyday experiences are a poor guide.

Image



Colorado : People Of Distinction

Kathryn Eyolfson

Science
Aurora, Colorado

2008 Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST)

Kathryn Eyolfson has taught fifth-grade mathematics and science at Coyote Hills Elementary School since it opened in 2006. She also serves as the school's science and mathematics liaison. During her 18-year tenure at the Cherry Creek School District in Aurora, CO, she has also taught at Village East Elementary School and Thunder Ridge Middle School.

To capture the interests of students and ignite a lifelong passion for science, mathematics, and technology, Mrs. Eyolfson uses multiple sources and encourages students to apply their education to real-world experience. Her use of classroom technology allows students to learn at their own pace. She pairs fifth grade students with students from lower grades to get the younger students interested in these concepts at an early age. She has also encouraged literature and history teachers to include mathematics principles in their classes.

Parents attest to Mrs. Eyolfson's ability to apply technology to all aspects of their children's education and even show the parents new things. According to colleagues, entering her classroom is like walking into the future.

Mrs. Eyolfson regularly participates in continuing professional development programs, maintains professional affiliations, and receives grants to continue student development programs and opportunities. She and her teammate, Leigh Curnett, were responsible for the SciTech Lab, where students learn science using inquiry and technology. Students at Coyote Hills enjoy a library of animals. There are presently 12 reptiles that Mrs. Eyolfson cares for with the assistance of the 5th grade reptile club. Students can observe and measure the resident bearded dragon, Drizzle; take notes on the current stage of the lifecycle of butterflies, chicken eggs, and tadpoles; and observe a chameleon adapting to its new environment.

Coyote Hills was awarded the John Irwin School of Excellence Award. In 2007 Mrs. Eyolfson was awarded both the Coyote Hills Distinguished Teacher of the Year award and the Southlands Wal-Mart Teacher of the Year award.

Mrs. Eyolfson has a B.A. in elementary education from Metropolitan State College of Denver and an M.A. in curriculum development from the University of Colorado Denver.

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Compact and Efficient Fluid Power Engineering Resource Center

Institution: University of Minnesota, Minneapolis, MN

Type: Program Centers

SubType: Engineering Research

Research Areas: Program Centers

State: Georgia Illinois Indiana Minnesota North Carolina Tennessee

Research Focus & Anticipated Benefits

Transforming and fully exploiting fluid power into a compact, efficient and effective source of energy transmission-this is the vision of the Engineering Research Center for Compact and Efficient Fluid Power (CCEFP). The Center's work in achieving this vision is and will continue to make transformational societal impacts, reducing polluting petroleum usage and increasing the ways in which fluid power-through human-scale applications-will improve the quality of life, spawning entirely new industries in the process.

While the CCEFP strategy has evolved and matured, the vision has remained constant. The needs that inspired it and the accuracy of the course in pursuing it are affirmed by the international fluid power research community and by industry.

As it completes its third year, the CCEFP is already transforming fluid power. The Center has become a catalyst in energizing the fluid power industry and the technology's research community. For the first time in decades, the fluid power industry in the U.S. is thinking seriously about university-industry collaboration on research. U.S. universities are emerging as international leaders in that research, as evidenced by best paper awards presented to Center researchers and their students at recent prominent international conferences. CCEFP connections are leading to a serious discussion of a proposed national fluid power energy policy involving industry, universities and national labs. And, as a direct consequence of CCEFP activities, the fluid power industry is now developing a research-technology roadmap.

Education & Outreach

The CCEFP's Education and Outreach Program is intentionally ambitious. It is designed for many audiences -- pre-college and collect students, fluid power industry stakeholders and customers, and the general public -- in the recognition that hydraulics and pneumatics is neither well-understood nor often taught. The CCEFP, working through its networks of strong partners, places an emphasis on developing new understandings of fluid power and related STEM topics as it reaches out to diverse audiences.

The mission of the Education and Outreach Program of the NSF Center for Compact and Efficient Fluid Power (CCEFP) is to develop research inspired, industry practice directed education for pre-college, university and practitioner students; to integrate research findings into education; to broaden the general public's awareness of fluid power; and through active recruiting and retention, to increase the diversity of students and practitioners in fluid power research and industry.

The vision of the Education and Outreach Program is a general public that is aware of the importance of fluid power and the impact of fluid power on their lives; students of all ages who are motivated to understand fluid power and who can create new knowledge and innovate; industry that capitalizes on new knowledge to lead the world in fluid power innovation; and participants in all aspects of fluid power who reflect the gender, racial and ethnic composition of this co

The strategy of the Education and Ou
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other educators and program leaders f
projects to facilitate the progress and s

Organization: The EO program is divid
education with examples drawn from f

Diversity: The CCEFP is striving to cha
power. Every research, education and
and minority students to participate in t
Others are realized through the work o

NSF Award: 0540834

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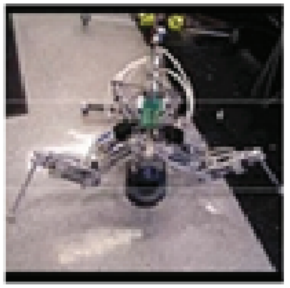

Institution: University of Minnesota, Minneapolis, MN

Type: Program Centers

SubType: Engineering Research

Research Areas: Program Centers

State: Georgia Illinois Indiana Minnesota North Carolina Tennessee

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Earth's environments range from polar ice caps to hot, dry deserts, from dark ocean depths to high mountaintops.

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Since its establishment in 1950, NSF has supported student education -- from the early introduction to mathematics and science, through the college and postgraduate experiences.

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Engineers bridge the gap between what the mind can imagine and what the laws of nature allow.

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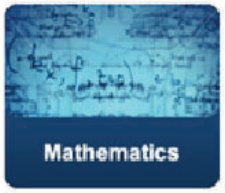

Mathematics

Mathematics is the natural language of science and engineering. It is about numbers, shapes, symmetry, chance, change and much more.

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Nanoscience

Nanoscience is the ability to manipulate atoms and molecules.

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People & Society

Out of fascination and need, people have always studied other people.

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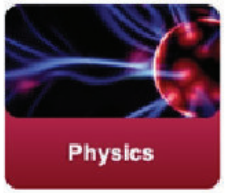

Physics

Physics begins with the everyday physical world around us: the blue of the sky, the colors of the rainbow, the fall of an apple, the motion of the moon.

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Polar

Polar Research focuses on the unique natural laboratories in the Arctic and Antarctic regions.

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Award Highlights | Research Assets

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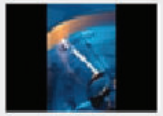

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