

# *Research.gov –*

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

May 2010



## **Research.gov**

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- **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 grants management and information 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**
- **Provides the public, scientific community, and Congress with easy access to information about:**
  - How Federal research funds are being spent
  - What outcomes are being achieved
  - How those outcomes benefit society
- **Leverages government-wide standards**

# Grants Management Environment



## 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
- **Leverages government-wide standards**

# Current Research.gov Services

- **Public Facing Services:**
  - Research Spending & Results
    - Find Recovery Act Awards
  - Research Headlines & Events
  - Policy Library (Government-wide)
- **Research Community Services:**
  - Grants Application Status
    - Principal Investigator/  
Sponsored Project Office
  - Submit Federal Financial Reports
  - Manage institution and user accounts
- **Research.gov Partners:**



# Business Drivers for New Service Implementation

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- Research community feedback
  - Research Spending & Results
  - Policy Library
  - Application Submission Web Services
- Reporting Requirements
  - New government-wide format to ease burden on research community
    - Research Performance Progress Report (RPPR)
  - NSF specific reporting requirements
    - Project Outcomes Report for the General Public (POR)
- Open government (transparency, participation, and collaboration)
  - Science, Engineering & Education Innovation (SEE Innovation)

## Coming soon to Research.gov

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- 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 **more**:
  - Stay up-to-date through new notification features, such as RSS feeds and email alerts.
  - Customize your Research.gov homepage and profile

## **Application Submission Web Services**

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- NSF is working with institutions to pilot an application submission service
- Consistent with Grants.gov framework for system-to-system
- Leverages institutions' investments in system solutions
- Provides applicants with a seamless experience of submitting proposals via web services to Research.gov and Grants.gov
- Leverages Research and Related data standard grantees are familiar with (SF-424 R&R)
- Lays groundwork for future opportunities to extend these capabilities to post-award management (e.g., financial and project reporting)

## Pilot Overview

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- Currently piloting with five institutions using Cayuse
  - California Institute of Technology
  - New Mexico University
  - University of Delaware
  - University of New York
  - University of Texas at Austin
- Have experienced success with submissions and positive feedback!
- Next Steps
  - Expand pilot to other interested institutions
  - Partner with additional interested system providers including COEUS, InfoEd, and ERA Softward
- If interested in participating, contact NSF at [feedback@research.gov](mailto:feedback@research.gov)



## **Research Performance Progress Report**

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- The Research Performance Progress Report (RPPR) was approved by OMB in January 2010 for agency use
- 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
- Working on scope and high level business requirements

# **Project Outcomes Report for the General Public**

## **Project Outcomes Report for the General Public**

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- 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
- PIs and co-PIs will use Research.gov to prepare and submit this reports
- Required in addition to final project reports which will continue to go through FastLane
- Will be posted for public with other award information in Research.gov's Research Spending and Results Service

## **Project Outcomes Report— Notifications**

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- New report submission service will be available in Research.gov later this summer
- SPOs, PIs, and co-PIs will know if a report is required and due
  - FastLane Project Reports system
  - Due and Overdue email notifications
  - Research.gov Project Outcomes Report Dashboard (PIs, coPIs)
- Additional outreach and training tools are planned and being developed including:
  - Demos
  - User guides
  - Online help

# FastLane Project Reports

**The Project Outcomes Report will also appear on this page and redirect the PI/co-PI to Research.gov to prepare and submit the report**

Project Reports System | MAIN ▶

Organization: Arizona State University

Annual/Final Project Reports

Interim Project Reports

Award Number:

Award Title:

PI/Co-PI Name:

**Annual/Final Project Report Requirements:**

[What do "NSF Report Status" and "My Submission Status" mean?](#)

To view a PDF of an approved Project Report, or to Create/Edit a Project Report for this award, click a link in the "Action" column below.  
 To view a detailed history of Report Review comments, click any "View Comments" text link in the "Action" column.

3 reporting periods found, displaying 1 to 3

Report Requirement	Report Period Start Date	Report Period End Date	Report Due Date	Report Overdue Date	NSF Report Status	My Submission Status	Last Submission Date	Action
Annual	09/01/2007	08/31/2008	06/02/2008	09/01/2008	Approved	Submitted	06/16/2008	<a href="#">View PDF</a>
Annual	09/01/2008	08/31/2009	05/31/2009	08/31/2009	Approved	Submitted	06/30/2009	<a href="#">View PDF</a>
Final	09/01/2009	08/31/2010	08/31/2010	11/30/2010	Not Yet Due	Not Submitted	--	<a href="#">Create/Edit</a>

Export options: [Excel](#)

**Select to create report**

## FastLane Project Reports – cont'd

**SPOs will be able to search for Project Outcomes Reports along with interim, annual, and final project reports in FastLane**

Project Reports | MAIN ▶
Organization: Unive

### Search for an Award's Project Report(s):

Search by any of the following criteria.

Organization Name: University of California-Irvine ▼

PI's Last Name:  (Enter at least first two characters)

Award Number:  (Enter 7 digits)

Project Report Type:

☒ ANNUAL

☒ Submitted
☐ All Annual Project Reports for this year

☐ FINAL

☐ Overdue
☐ Due within 30 days
☐ Due within 31-90 days
☒ Submitted
☐ All Final Project Reports

☐ INTERIM

Interim Reports are not required not have due dates, so they can't be searched for by due date.

Sort Results by:
☒ Award Number
☐ PI Last Name
☐ Award Expiration Date

Sort Results by:
☒ Award Number
☐ PI Last Name
☐ Award Expiration Date

Sort Results by:
☒ Award Number
☐ PI Last Name

Search

14

## **Due and Overdue email notifications**

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### **Project Outcomes Report for the General Public is Now Due!**

To: Active SROs, active PIs, and all active Co-PIs  
CC: Managing Project Officer (MPO)

Project Outcomes Report for the General Public is Now Due

Your Project Outcomes Report for the General Public is due for the following award:

Project Title:

PI:

Awardee:

Award Number:

Award Expires:

Program Officer Name:

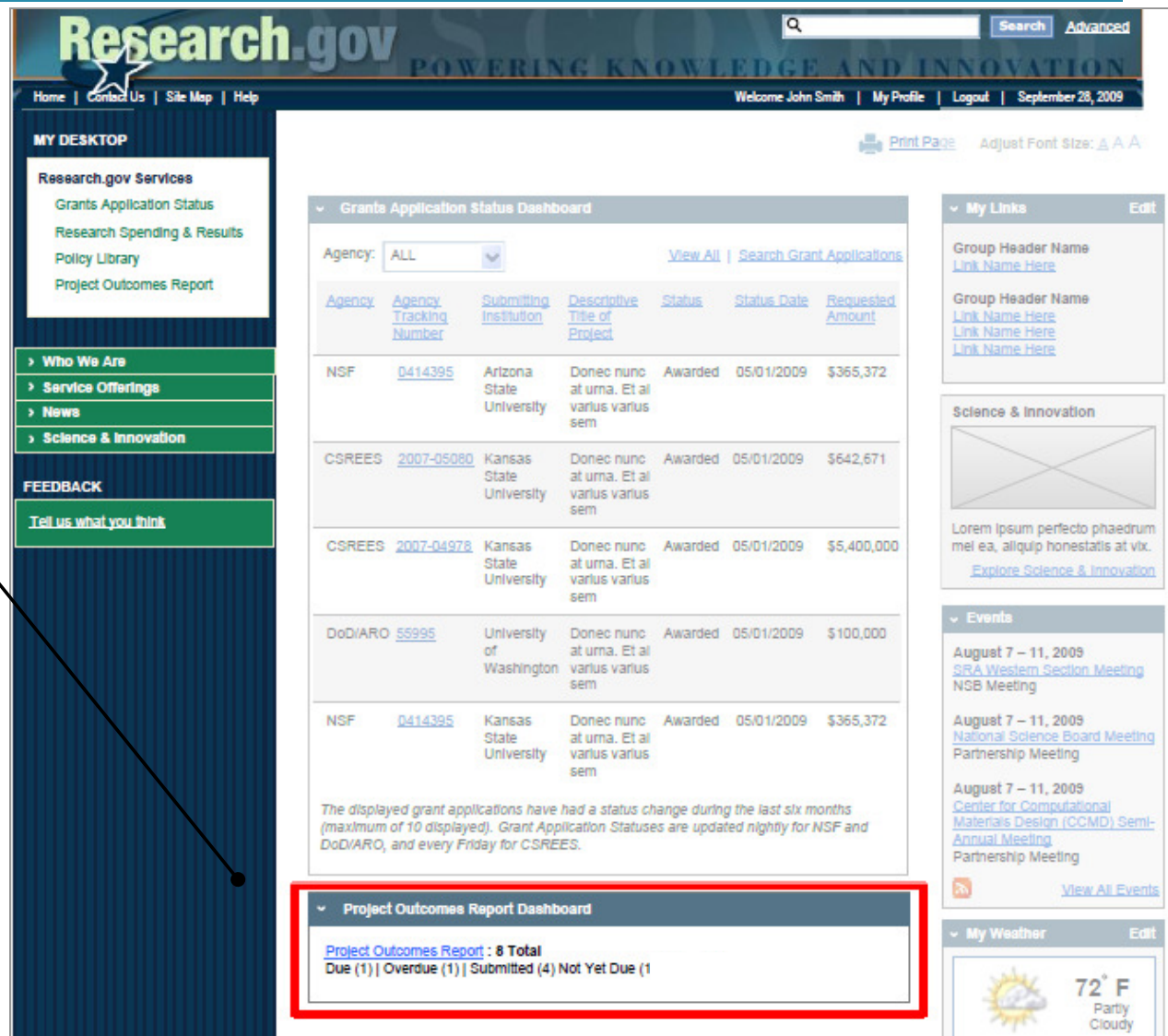
Program Officer Email Address:

Program Officer Phone Number:

# Project Outcomes Report Dashboard

PIs/Co-PIs will:

- Log into Research.gov with FastLane log in
- See the Project Outcomes Report Dashboard on home page
- See the number and status of required reports:
  - Due
  - Overdue
  - Submitted
  - Not yet due
- Click on link to view, prepare, and submit reports



The screenshot shows the Research.gov website interface. The top navigation bar includes links for Home, Contact Us, Site Map, and Help. The main header features the Research.gov logo and the tagline "POWERING KNOWLEDGE AND INNOVATION". A search bar is located in the top right corner.

The left sidebar contains a "MY DESKTOP" section with links to Research.gov Services (Grants Application Status, Research Spending & Results, Policy Library, Project Outcomes Report), Who We Are, Service Offerings, News, and Science & Innovation. Below this is a "FEEDBACK" section with a link to "Tell us what you think".

The main content area displays the "Grants Application Status Dashboard" with a table of grant applications. The table has columns for Agency, Agency Tracking Number, Submitting Institution, Descriptive Title of Project, Status, Status Date, and Requested Amount. The table lists several grant applications, including NSF, CSREES, and DoD/ARO.

Below the table, there is a section titled "Project Outcomes Report Dashboard" which is highlighted with a red box. This section displays the following information:

- Project Outcomes Report : 8 Total
- Due (1) | Overdue (1) | Submitted (4) | Not Yet Due (1)

The right sidebar contains a "My Links" section with links to Group Header Name, Science & Innovation, and Events. The Events section lists upcoming meetings, including the SRA Western Section Meeting, National Science Board Meeting, and Center for Computational Materials Design (CCMD) Semi-Annual Meeting. At the bottom, there is a "My Weather" section showing the current temperature and weather conditions.



# Project Outcomes Report—Submitting



Welcome John Smith | My Profile | Logout | September 28, 2009

## Project Outcomes Report

Print Page Adjust Font Size: A A A

Award ID: 0556755  
Report Period: 10/1/2008 to 9/30/2009

**Project Outcomes Report for the General Public:**  
The Project Outcomes Report for the General Public must be at least 200 words in length and can be up to 800 words.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque quis dignism lectus. Aliquam erat volutpat. Curabitur lobortis velit at quam volutpat auctor. Etiam adipiscing, lectus elementum lacula molestie, dolor orci hendrerit massa.

...WYSIWYG Editor

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque quis dignism lectus. Aliquam erat volutpat. Curabitur lobortis velit at quam volutpat auctor. Etiam adipiscing, lectus elementum lacula molestie, dolor orci hendrerit massa.

...Related Images

To add up to 6 supporting images, click the Add & Remove Images button below.

Photos (1 of 6) [View Full Size](#) [Close](#)

Image column grid here

Add & Remove Images

Word Count: 100

Cancel Preview Save Save & Submit

## Upload images with report:

- Must acknowledge permission granted to use image
- Maximum of 6 images

## Prepare Report, should:

- 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

Preview their report before submitting, save report and return later to finish, or submit

# Project Outcomes Report— Public Posting

[Print Page](#) [Adjust Font Size: A A A](#)

## Research Spending & Results

[Back to Results](#)

### Award Detail

Awardee: RECTOR & VISITORS OF THE UNIVERSITY OF VIRGINIA  
 Doing Business As Name: University of Virginia Main Campus  
 PDI#: B. Jill Vinton  
 434-243-2132  
 bvj2n@virginia.edu  
 Award Date: 01/12/2007  
 Estimated Total Award Amount: \$550,000  
 Funds Obligated to Date: \$550,000  
 FY 2006= \$330,300  
 FY 2008= \$110,300  
 FY 2007= \$110,300  
 Award Start Date: 02/01/2007  
 Award End Date: 01/01/2012

**Project Outcomes Reports will be available to the public through Research.gov on an award's Research Spending and Results Award Detail page**

### Project Outcomes Report for the General Public

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque quis dignissim lectus. Aliquam erat volutpat. Curabitur lobortis velit at quam volutpat euctor. Etiam adipiscing, lectus elementum iaculis molestie, dolor orci hendrerit massa, sodales sodales elit mi sit amet iaculis. Proin vehicula facilisis pellentesque. Morbi a sagittis nisl. Nunc egestas iaculis turpis, in iaculis nisl porta et. Fusce luctus purus ac tortor pretium eget sodales sapien vulputate. Ut tincidunt, tortor et aliquam porta, ligula iaculis bibendum quam, ut ultrices enim turpis in arcu. Proin tellus nisl, porta nec dignissim et, laoreet sed erat. Pellentesque porta mauris eu sem aliquam solidum non non turpis. Donec iaculis, sapien sed iaculis adipiscing, tellus tortor porta enim, non blandit lorem nisl id libero. Aliquam faucibus congue enim, id fringilla purus blandit a. Etiam venenatis, erat et cursus posuere, augue eros pulvinar eros, et consectetur leo dui nec velit. Fusce et velit et augue hendrerit viverra eu in nunc. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. In imperdiet risus ac nisl fermentum a tristique elit blandit.

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin a nunc nisl. Sed enim enim, euismod quis blandit eget, bibendum eget urna. Aliquam erat volutpat. Nulla sed justo vel erat vehicula consectetur in quis elit. Amet iaculis iaculis, blandit eu iaculis nec, solidum vel metus. Nullam eleifend, ipsum eu debibus tempus, ligula ipsum imperdiet eros, in sagittis purus ipsum a elit. Phasellus rhoncus mauris sit amet nunc luctus eget adipiscing risus gravida. Phasellus rhoncus venenatis turpis id gravida. Morbi suscipit volutpat tincidunt. Curabitur et dolor pellentesque consequat orci, ut consectetur justo adipiscing id. Maecenas sem turpis, rhoncus in interdum nec, eleifend volutpat massa. Sed nec aliquet mi.

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Last Modified: 6/30/2010  
 Submitted by: John Smith

#### Addendum # 1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque quis dignissim lectus. Aliquam erat volutpat. Curabitur lobortis velit at quam volutpat euctor. Etiam adipiscing, lectus elementum iaculis molestie, dolor orci hendrerit massa, sodales sodales elit mi sit amet iaculis. Proin vehicula facilisis pellentesque. Morbi a sagittis nisl. Nunc egestas iaculis turpis.

Added: 6/30/2011  
 Submitted by: Jane Doe

#### Disclaimer

This Public 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.

[Back to Results](#) [Returns user to Search Results page, where they can select another record.](#)

#### Related Images

Photos (1 of 6) [View Full Size](#)










Image caption goes here

If no additional images are added as part of the addendum, the Related Images section below is suppressed.

#### Related Images

Photos (1 of 6) [View Full Size](#)







Image caption goes here

# SEE Innovation

# Science, Engineering & Education Innovation (SEE Innovation)



- This summer, NSF will begin piloting SEE Innovation, a new, interactive public service providing access to robust information about the outcomes and impacts of NSF-funded research
- SEE Innovation provides key information to:
  - The research community
  - The general public
  - Federal, state, and local policy makers



# Science, Engineering & Education Innovation (SEE Innovation)

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- Using SEE Innovation, you can:
  - Learn about recent discoveries made by researchers across the country and identify potential collaborators in your area of study.
  - See how NSF investments in science & engineering and research & education foster learning, discovery, and breakthroughs that advance the frontier of knowledge and benefit society.
  - Use the interactive map to find your state's total number of awards in a given fiscal year, total amount of funds obligated in a fiscal year, and recent awards and award abstracts.
  - Access information from multiple resources in one location, eliminating the need to sift through multiple sources to find what you are looking for.



# Science, Engineering & Education (SEE Innovation) Home Page



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> States & Territories

> Research Assets

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[NASA Inspires](#)

FEEDBACK

[Tell Us What You Think](#)

Sandra Kellish  
2009 PASEBT Award

IceCube  
A telescope under construction at the  
Pole  
[Learn More »](#)

Satellite Test Facility  
In New Hampshire  
[Learn More »](#)

Antarctic Penguins  
in the Science of Climate Change

Ice Removal  
in Northern Alaska  
[Learn More »](#)

### Science, Engineering & Education Innovation

NSF-funded projects are advancing knowledge, transforming society, strengthening the economy, and helping to keep America secure. Learn about projects, people, and infrastructure in every state and all fields of science and engineering.  
[Learn More](#)

#### Research Areas

[View All 12](#)

Astronomy & Space

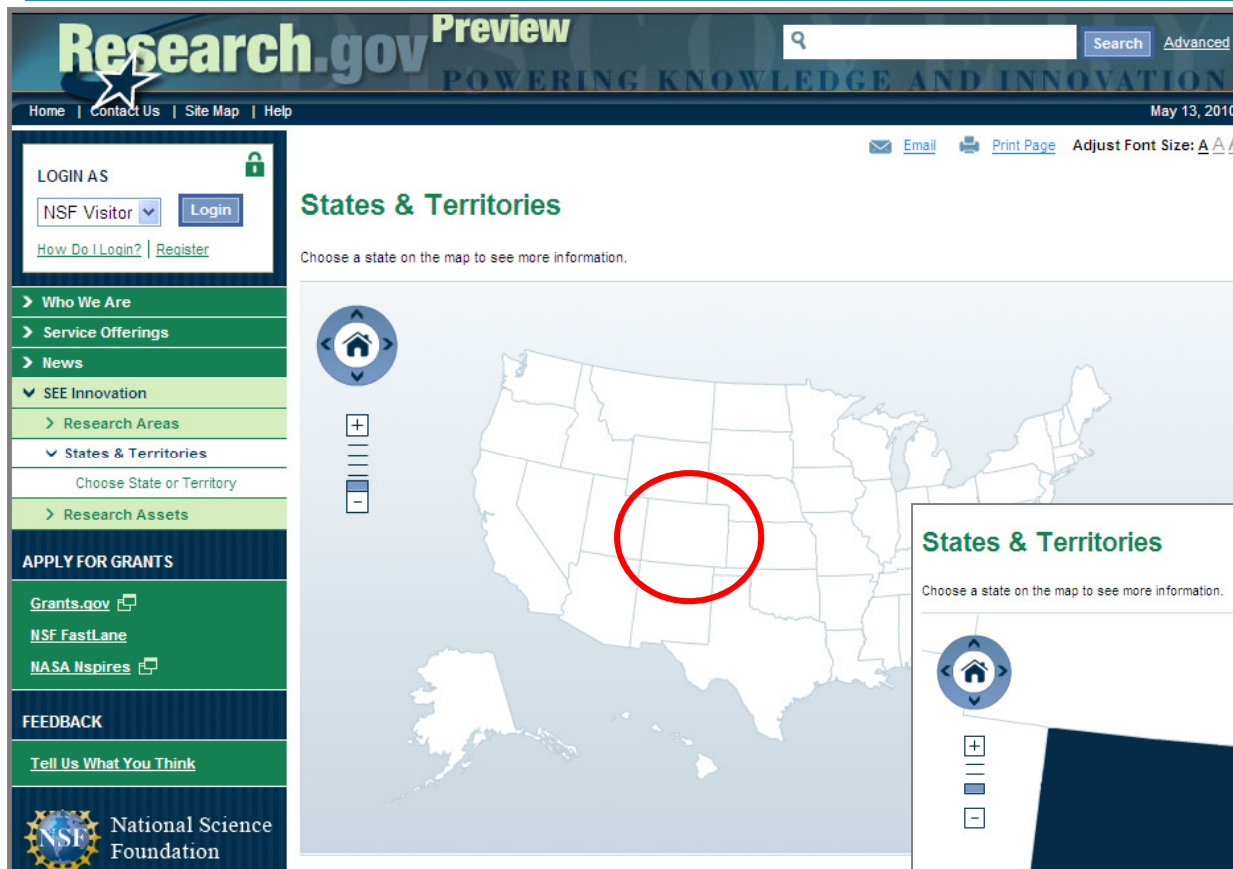
Biology

#### States & Territories

Use the interactive map to explore NSF research facilities, award highlights and topics.  
[Browse By Map](#)

<a href="#">Alabama</a>	<a href="#">International</a>	<a href="#">Nevada</a>	<a href="#">South Dakota</a>
<a href="#">Alaska</a>	<a href="#">Iowa</a>	<a href="#">New Hampshire</a>	<a href="#">Tennessee</a>
<a href="#">Arizona</a>	<a href="#">Kansas</a>	<a href="#">New Jersey</a>	<a href="#">Texas</a>
<a href="#">Arkansas</a>	<a href="#">Kentucky</a>	<a href="#">New Mexico</a>	<a href="#">US Virgin Islands</a>
<a href="#">California</a>	<a href="#">Louisiana</a>	<a href="#">New York</a>	<a href="#">Utah</a>
<a href="#">Colorado</a>	<a href="#">Maine</a>	<a href="#">North Carolina</a>	<a href="#">Vermont</a>
<a href="#">Connecticut</a>	<a href="#">Maryland</a>	<a href="#">North Dakota</a>	<a href="#">Virginia</a>
<a href="#">Delaware</a>	<a href="#">Massachusetts</a>	<a href="#">Ohio</a>	<a href="#">Washington</a>
<a href="#">Florida</a>	<a href="#">Michigan</a>	<a href="#">Oklahoma</a>	<a href="#">Washington DC</a>
<a href="#">Georgia</a>	<a href="#">Minnesota</a>	<a href="#">Oregon</a>	<a href="#">West Virginia</a>
<a href="#">Hawaii</a>	<a href="#">Mississippi</a>	<a href="#">Pennsylvania</a>	<a href="#">Wisconsin</a>
<a href="#">Idaho</a>	<a href="#">Missouri</a>	<a href="#">Puerto Rico</a>	<a href="#">Wyoming</a>
<a href="#">Illinois</a>	<a href="#">Montana</a>	<a href="#">Rhode Island</a>	
<a href="#">Indiana</a>	<a href="#">Nebraska</a>	<a href="#">South Carolina</a>	

# States and Territories



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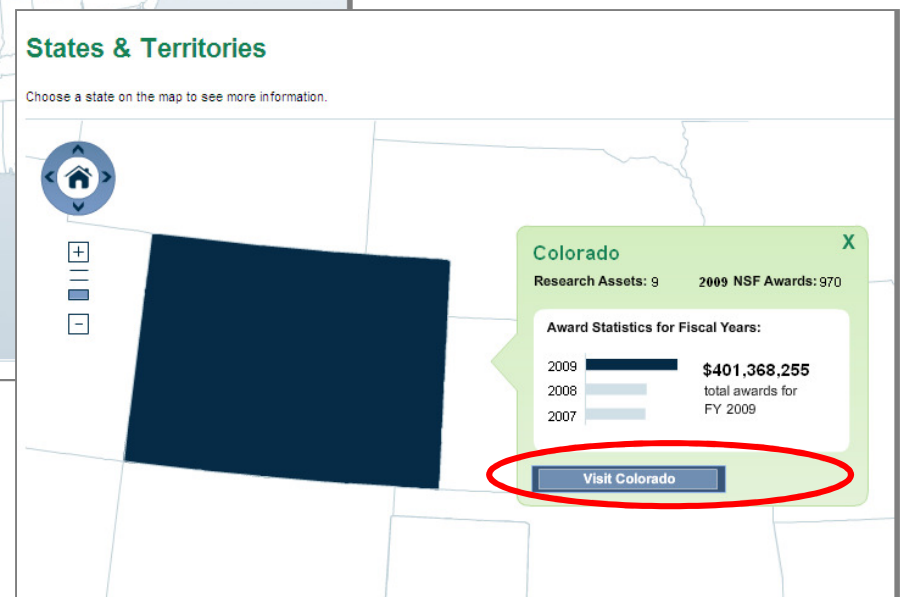
> Who We Are  
> Service Offerings  
> News  
▼ SEE Innovation  
    > Research Areas  
    ▼ States & Territories  
        Choose State or Territory  
    > Research Assets

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 National Science Foundation

**States & Territories**  
Choose a state on the map to see more information.



**States & Territories**  
Choose a state on the map to see more information.

**Colorado** X

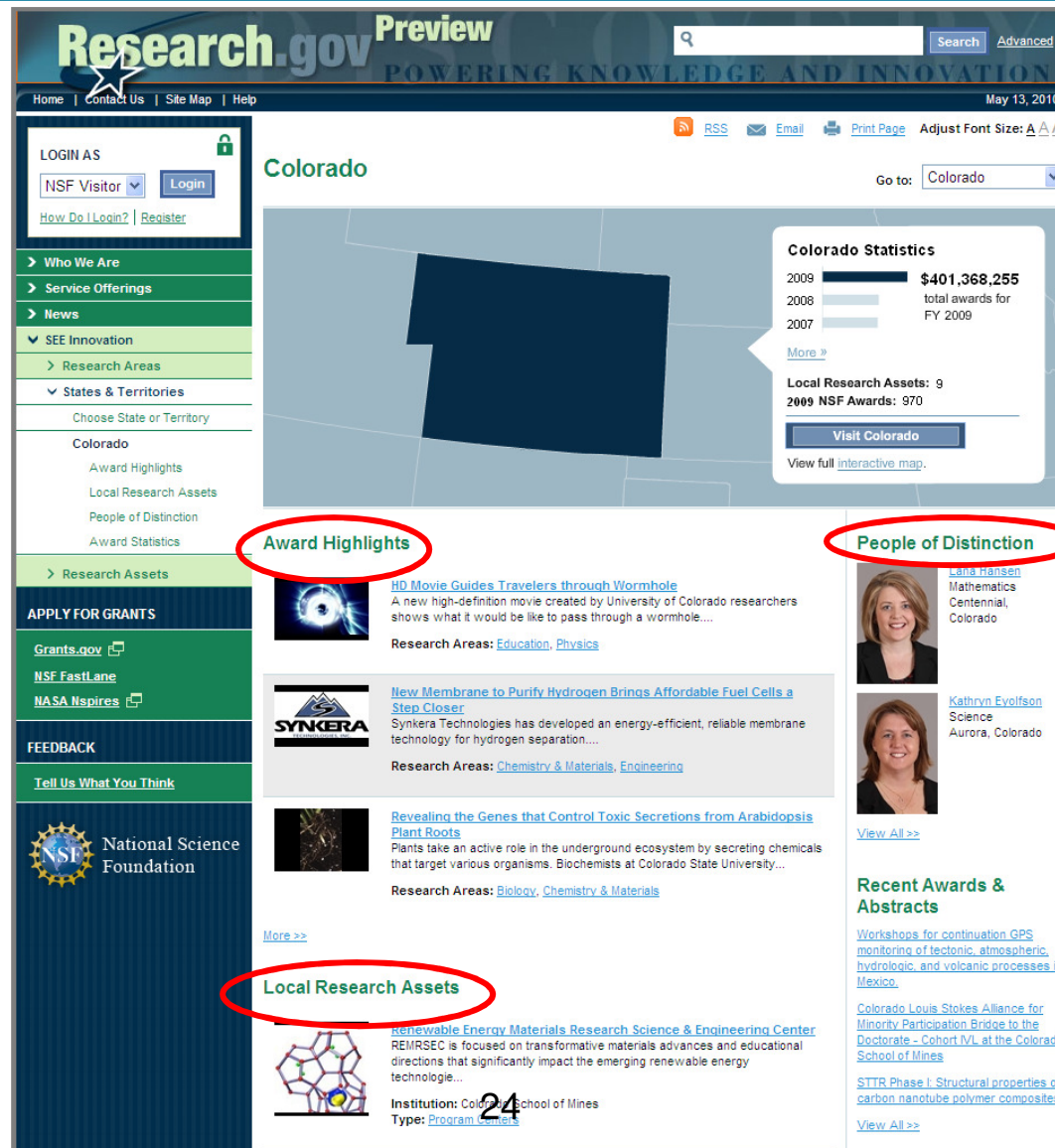
Research Assets: 9    2009 NSF Awards: 970

Award Statistics for Fiscal Years:

Fiscal Year	Awards	Total Awards for FY 2009
2009	\$401,368,255	
2008		
2007		


[Visit Colorado](#)

# Colorado State Page





# Award Highlight Example


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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 the traveler emerges into a part of our own universe and an on a mathematical work whose

In the future, such high-ld become a central component everyday experiences are a poor


### Image



### View Full Award Information

[ESP-AST: Black Hole Visualization for the World](#) (University of Colorado at Boulder)


### Recent Award Highlights



[Colorado Program Introduces Students to Computer Science](#)  
Michelle Strout and her collaborators at Colorado State University are working with two high-school chemistry teachers to increase the visibility of computer science at the high-school level.

Research Areas: [Computing](#), [Chemistry & Materials](#), [Education](#)

States & Territories: [Colorado](#)



[National Center for Atmospheric Research Shares 2007 Nobel Peace Prize](#)  
Researchers and staff at the National Center for Atmospheric Research (NCAR) played a pivotal role, providing scientific expertise, as well as climate data generated from the Community Climate System Model (CCSM3).

Research Areas: [Education](#), [Earth & Environment](#)

States & Territories: [Colorado](#)

## People of Distinction Example

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Choose State or Territory

**Colorado**

Award Highlights  
 Local Research Assets  

- People of Distinction**

 Award Statistics

**> Research Assets**

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## 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.

## Research Asset Example

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- FEEDBACK**
- [Tell Us What You Think](#)

## 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](#)

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### 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.

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### Education & Outreach

The CCEFP's Education and Outreach Program is intentionally ambitious. It is designed for many audiences -- pre-college and college 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 is to inspire, industry practice directed education for pre-co broaden the general public's awareness of fluid power; practitioners in fluid power research and industry.

**The vision** of the Education and Outreach Program is to have on their lives; students of all ages who are motivated to capitalize on new knowledge to lead the world in fluid power and ethnic composition of this country.

**The strategy** of the Education and Outreach Program is to broadly distributed education and outreach networks to other educators and program leaders for new audience projects to facilitate the progress and successes of others.

**Organization:** The EO program is divided into six thrust education with examples drawn from fluid power when

**Diversity:** The CCEFP is striving to change the face of fluid power. Every research, education and outreach project and minority students to participate in these projects. So Others are realized through the work of the Center's aff

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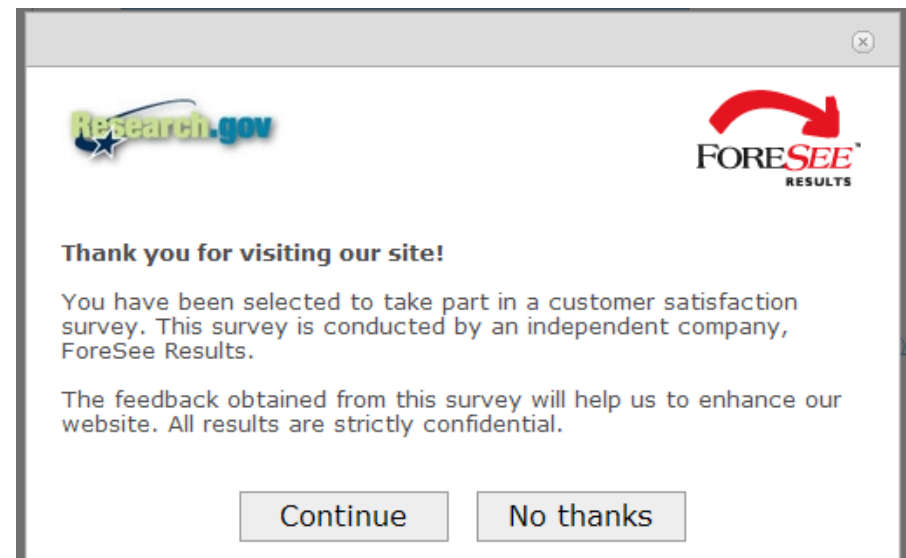
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