

STEWARDSHIP

The NSF Strategic Plan for FY 2006-2011 defines Stewardship, the Foundation's fourth strategic goal, as supporting excellence in science and engineering research and education through a capable and responsive organization. Excellence in NSF's stewardship is essential to carrying out the Foundation's mission and accomplishing its other strategic goals: Discovery, Learning, and Research Infrastructure.

The activities that advance NSF's Stewardship goal are funded through five appropriations accounts. Additional details on each account are provided in the respective chapters.

Agency Operations and Award Management (AOAM) increases by \$29.19 million, or 9.7 percent, to \$329.19 million in FY 2011. These resources include funding for personnel compensation and benefits, information technology (IT) that supports administrative activities, staff travel, training, rent, and other operating expenses necessary for effective management of NSF's research and education activities.

Office of Inspector General (OIG) increases by \$350,000, or 2.5 percent, to \$14.35 million in FY 2011. These resources include funding for personnel compensation and benefits, contract audits, training and operational travel, office supplies, materials, and equipment.

National Science Board (NSB) increases by \$300,000, or 6.6 percent, to \$4.84 million in FY 2011. These resources include funding for personnel compensation and benefits, employment of external experts and consultants, contracts, training and operational travel, office supplies, materials, and equipment.

Program Accounts - Research and Related Activities (R&RA) and Education and Human Resources (EHR) – Stewardship funding from program accounts increases by \$9.23 million, or 8.3 percent, to \$120.44 million in FY 2011. Program funded stewardship activities include Intergovernmental Personnel Act (IPA) agreements and certain Foundation-wide activities such as major studies, evaluations, outreach efforts, information technology investments that are directly related to the mission of the Foundation, and NSF contributions to interagency e-Government activities.

Stewardship by Appropriations Account

(Dollars in Millions)

	FY 2009	FY 2009	FY 2010 Estimate	FY 2011 Request	Change over	
	Omnibus Actual	ARRA Actual			FY 2010 Estimate	FY 2011 Request
Agency Operations and Award Management	\$294.09	-	\$300.00	\$329.19	\$29.19	9.7%
Office of Inspector General	11.99	0.02	14.00	14.35	0.35	2.5%
National Science Board	4.02	-	4.54	4.84	0.30	6.6%
Research & Related Activities	88.25	-	96.47	104.32	7.85	8.1%
Education and Human Resources	13.08	-	14.74	16.12	1.38	9.4%
Subtotal, Program Support	101.34	-	111.21	120.44	9.23	8.3%
Total	\$411.44	\$0.02	\$429.75	\$468.82	\$39.07	9.1%

Totals may not add due to rounding

NSF WORKFORCE

NSF Workforce					
Full-Time Equivalents (FTE)					
	FY 2009 Actual	FY 2010 Estimate	FY 2011 Request	Change over	
				FY 2010 Estimate Amount	Percent
<i>AOAM FTE Allocation</i>					
Regular	1,295	1,310	1,350	40	3.1%
Student	40	40	40	-	-
Subtotal, AOAM FTE Allocation	1,335	1,350	1,390	40	3.0%
<i>AOAM FTE Usage (Actual/Projected)</i>					
NSF Regular	1,266	1,285	1,350	65	5.1%
NSF Student	34	40	40	-	-
Subtotal, AOAM FTE¹	1,300	1,325	1,390	65	4.9%
<i>Office of the Inspector General²</i>					
Regular	69	73	74	1	1.4%
Student	64	67	67	-	-
	5	6	7	1	16.7%
<i>National Science Board³</i>					
	17	17	18	1	5.9%
<i>Arctic Research Commission⁴</i>					
	4	4	4	-	-
Total, Federal Employees	1,390	1,419	1,486	67	4.7%
<i>IPAs</i>					
	164	211	222	11	5.2%
<i>Detailees to NSF</i>					
	3	6	6	-	-
<i>Contractors (est.)</i>					
	415	449	512	63	14.0%
Total, Workforce	1,972	2,085	2,226	141	6.8%

¹Additional information regarding FTEs funded through the AOAM appropriation are available in the AOAM chapter.

²The Office of Inspector General is described in a separate chapter and is funded through a separate appropriation.

³The National Science Board is described in a separate chapter and is funded through a separate appropriation.

⁴The U.S. Arctic Research Commission is described in the Research and Related Activities chapter and is funded through the R&RA appropriation.

In FY 2011, NSF's total federal workforce will increase by 42 FTE and 11 IPAs over the FY 2010 level. The staffing profile in the table above shows that a small but significant percentage of the NSF workforce included in the FY 2011 Request – 222 people or approximately 10 percent – consists of temporary employees hired through the authority provided by the Intergovernmental Personnel Act (IPA). IPAs do not count as federal FTE. A smaller number of visiting staff – roughly 40 people annually – are employed through NSF's own Visiting Scientist, Engineer, and Educator Program (VSEE). VSEEs count as federal FTE and are included in the Federal Employees total (see table above). The use of IPAs and VSEEs, commonly referred to as rotators, has been a defining characteristic of NSF since its inception in 1950, as it gives NSF a direct connection to the researchers and educators working at the frontiers of science and engineering.

INFORMATION TECHNOLOGY INVESTMENTS

Information Technology (IT) Investments by Appropriation
(Dollars in Millions)

	FY 2009 Actual	FY 2010 Estimate	FY 2011 Request	Change over FY 2010 Estimate	
				Amount	Percent
Agency Operations and Award Management	\$34.48	\$26.10	\$27.00	\$0.90	3.4%
Program Related Technology	52.00	56.00	61.50	5.50	9.8%
<i>R&RA</i>	44.72	48.72	53.50	4.78	9.8%
<i>EHR</i>	7.28	7.28	8.00	0.72	9.9%
Total	\$86.48	\$82.10	\$88.50	\$6.40	7.8%

Totals may not add due to rounding.

Information Technology (IT) Investments by Appropriation and Activity
(Dollars in Millions)

	FY 2009 Actual	FY 2010 Estimate	FY 2011 Request	Change over FY 2010 Estimate	
				Amount	Percent
Agency Operations and Award Management (AOAM)					
Applications Services and Support	\$13.37	\$11.81	\$12.75	\$0.94	8.0%
Associated IT Operations and Infrastructure	17.98	11.50	11.46	-0.04	-0.3%
Security and Privacy Services and Support	3.13	2.79	2.79	-	0.0%
Subtotal, AOAM	34.48	26.10	27.00	0.90	3.4%
Program Related Technology					
Mission-Related Applications Services	34.09	39.13	43.50	4.37	11.2%
Associated IT Operations and Infrastructure	15.29	13.91	14.80	0.89	6.4%
Related Security and Privacy Services	2.62	2.96	3.20	0.24	8.1%
Subtotal, Program Related Technology	52.00	56.00	61.50	5.50	9.8%
Total, Information Technology Investments	\$86.48	\$82.10	\$88.50	\$6.40	7.8%

Totals may not add due to rounding.

Total funding for NSF's Information Technology (IT) investments in FY 2011 is \$88.50 million, an increase of 7.8 percent over FY 2010.

- \$61.50 million is for Program Related Technology (PRT) activities that relate directly to NSF's programmatic investments, such as Research.gov, eJacket, FastLane, and Reviewer Management. PRT is funded with direct program resources from the R&RA and EHR accounts. Further information on PRT-funded IT investments begins on page five of this section.
- \$27.0 million in IT investments is funded with AOAM resources and will support routine administrative activities, such as human resources, financial statement preparation, procurement, etc. Further information on AOAM-funded IT investments can be found in the Agency Operation Award Management chapter of this Request.

PROGRAM-FUNDED STEWARDSHIP

R&RA and EHR Program Support funds account for about a quarter of the total Stewardship portfolio. There are two activities that comprise Program-Funded Stewardship – Intergovernmental Personnel Act (IPA) costs and Program Related Administration.

Summary of Program-Funded Stewardship

(Dollars in Millions)

	FY 2009 Actual	FY 2010 Estimate	FY 2011 Request	Change over FY 2010 Estimate	
				Amount	Percent
IPA Costs	\$38.71	\$47.12	\$49.44	\$2.32	4.9%
Program Related Administration	62.62	64.09	71.00	6.91	10.8%
<i>Program Related Technology</i>	<i>52.00</i>	<i>56.00</i>	<i>61.50</i>	<i>5.50</i>	<i>9.8%</i>
<i>Other Program Related Admin</i>	<i>10.62</i>	<i>8.09</i>	<i>9.50</i>	<i>1.41</i>	<i>17.4%</i>
Total, Program Funded	\$101.33	\$111.21	\$120.44	\$9.23	8.3%

Totals may not add due to rounding.

IPA Costs

The following table breaks down the IPA costs by appropriation into basic compensation, travel, and other benefits.

IPA Costs by Appropriation

(Dollars in Millions)

	FY 2009 Actual	FY 2010 Estimate	FY 2011 Request	Change over FY 2010 Estimate	
				Amount	Percent
R&RA					
IPA Compensation	\$28.42	\$33.63	\$35.14	\$1.51	4.5%
IPA Lost Consultant & Per Diem	3.44	4.07	4.25	0.18	4.4%
IPA Travel	2.42	2.86	2.99	0.13	4.5%
Subtotal, R&RA Costs	34.28	40.56	42.38	1.82	4.5%
EHR					
IPA Compensation	3.65	5.39	5.81	0.42	7.8%
IPA Lost Consultant & Per Diem	0.58	0.86	0.92	0.06	7.0%
IPA Travel	0.21	0.31	0.33	0.02	6.5%
Subtotal, EHR Costs	4.44	6.56	7.06	0.50	7.6%
Total, IPA Costs	\$38.71	\$47.12	\$49.44	\$2.32	4.9%

Totals may not add due to rounding.

IPAs are considered federal employees for many purposes during their time at NSF, even though they remain employees of their home institutions. They are not paid directly by NSF and are not subject to federal pay benefits and limitations. NSF reimburses the home institution for the IPA's salary and benefits using the traditional grant mechanism. IPAs are also eligible to receive per diem, relocation expenses, and reimbursement for any income foregone because of their assignment at NSF (i.e., lost consulting fees). While at NSF, rotators function in a manner virtually identical to the Foundation's permanent staff – leading the merit review process, overseeing awards, and shaping future program directions.

Program Related Administration

Program Related Administration includes two components: Program Related Technology and Other Program Related Administration.

Program Related Administration

(Dollars in Millions)

	FY 2009 Actual	FY 2010 Estimate	FY 2011 Request	Change over	
				FY 2010 Estimate Amount	Percent
Program Related Technology	\$52.00	\$56.00	\$61.50	\$5.50	9.8%
Other Program Related Admin	10.62	8.09	9.50	1.41	17.4%
Total, Program Related Administration	\$62.62	\$64.09	\$71.00	\$6.91	10.8%

Totals may not add due to rounding.

Program Related Technology (PRT) (+\$5.50 million, to a total of \$61.50 million)

PRT investments support NSF program staff as they formulate and announce program opportunities; accept proposals; conduct the merit review process; make awards to fund proposals that have been judged the most promising by the rigorous and objective merit-review process; monitor program performance and results; and disseminate results of NSF funded research. Major IT systems funded through PRT include Research.gov, Reviewer Management, eJacket, and FastLane. In addition, PRT activities further enable NSF to meet the requirements of the American Recovery and Reinvestment Act of 2009 by

- improving capabilities to help manage and report on Recovery Act awards;
- enhancing operational processing capabilities to support over 45,000 proposals, 10,000 awards, and thousands of electronic reviews;
- improving access to proposal, award, and related financial and performance information NSF staff need for key decision making;
- eliminating paper by electronically archiving records; and
- improving routine IT operations leveraging virtual technologies, networking innovations, and new IT service delivery models to support these mission-related IT investments.

The PRT budget includes:

Mission-Support Applications Services (+\$4.37 million, to a total of \$43.50 million)

- Research.gov (+\$2.50 million to a total of \$17.50 million) will provide staff with new and improved capabilities to plan and manage programs and to promote scientific innovations and discoveries, including tools to support broadening participation by enabling a more diverse set of institutions, investigators, and reviewers greater access to NSF funding opportunities.

Research.gov is NSF's critical investment providing new and modern services to meet the high priority needs of NSF staff and the research community, consistent with new government-wide standards, and in concert with the broader research community. Research.gov:

- Provides NSF staff new services via an intuitive, easy to use desktop portal, providing critically needed new tools and an integrated environment for staff to work.
- Will launch "Science and Innovation," a new public service to demonstrate how NSF research and education programs benefit society, often beyond scientific discoveries, in FY 2010.
- Fulfills an America COMPETES Act requirement to make project outcome reports public.
- Will begin to implement the new government-wide Research Performance Progress Report standard in FY 2010, in partnership with other federal agencies.

- Other mission-related applications and services (+\$1.87 million, to a total of \$26.0 million) to support program staff tools such as eJacket, to manage proposal and program portfolios through such steps as eliminating paper by electronically archiving records, as well as the continued planning and pre-acquisition activities associated with the iTRAK project, which will replace NSF's current financial management system (FAS).

Associated IT Operations and Infrastructure (+\$890,000, to a total of \$14.80 million). This funding increase will ensure high quality, reliable, and secure mission-related applications and associated IT infrastructure support and services.

Related Security and Privacy Services (+\$240,000, to a total of \$3.20 million).

Continued investments will secure mission-related applications and protect sensitive information.

NSF's business cases can be found at: <http://it.usaspending.gov/>

Other Program Related Administration (+\$1.41 million, to a total of \$9.50 million).

Other Program Related Administration includes funding for Foundation-wide activities such as major studies, evaluations, and NSF's costs associated with interagency e-Government activities. These activities include verification and validation of performance information; surveys of scientists, engineers, and educators who submit proposals for NSF awards; the Waterman Award which recognizes an outstanding young researcher in any field of science or engineering supported by NSF; AAAS fellowship program and internships; and external evaluations of cross-foundational programs.

E-Government Activities

NSF is providing funding in FY 2010 and FY 2011 to these E-Government Activities:

NSF FY 2010 Funding for E-Government Initiatives

Initiative	FY 2010 Agency Contributions	FY 2010 Agency Svc. Fees	NSF Total	Appropriations Account		
				AOAM	R&RA	EHR
Grants.gov	\$475,294	-	\$475,294	-	\$413,506	\$61,788
Grants Management LoB	174,360	-	174,360	-	151,693	22,667
E-Travel	-	150,038	150,038	150,038	-	-
Geospatial LoB	15,000	-	15,000	-	13,050	1,950
E-Training	-	370,000	370,000	370,000	-	-
E-Rulemaking	-	5,100	5,100	5,100	-	-
Recruitment One-Stop (USA Jobs)	-	4,871	4,871	4,871	-	-
E-HRI	-	48,724	48,724	48,724	-	-
Integrated Acquisition Environment	-	18,866	18,866	18,866	-	-
Human Resources Management LoB	65,217	-	65,217	-	56,739	8,478
Financial Management LoB	44,444	-	44,444	-	38,666	5,778
Budget Formulation/Execution LoB	95,000	-	95,000	-	82,650	12,350
E-Payroll (incl. Shared Services)	-	304,704	304,704	304,704	-	-
Total	\$869,315	\$902,303	\$1,771,618	\$902,303	\$756,304	\$113,011

Totals may not add due to rounding.

The total for all NSF FY 2010 inter-agency E-Government and Line of Business contributions for the initiative funding levels reported, and including any new development items, is not currently projected by the Federal CIO Council to change significantly from the FY 2009 aggregate level. Specific levels presented here are subject to change, as redistributions to meet changes in resource demands are assessed.

NSF FY 2011 Funding for E-Government Initiatives

Initiative	FY 2011 Agency Contributions	FY 2011 Agency Svc. Fees	NSF Total	Appropriations Account		
				AOAM	R&RA	EHR
Grants.gov	\$475,294	-	\$475,294	-	\$413,506	\$61,788
Grants Management LoB	174,360	-	174,360	-	151,693	22,667
E-Travel	-	150,038	150,038	150,038	-	-
Geospatial LoB	15,000	-	15,000	-	13,050	1,950
E-Training	-	370,000	370,000	370,000	-	-
E-Rulemaking	-	5,100	5,100	5,100	-	-
Recruitment One-Stop (USA Jobs)	-	4,871	4,871	4,871	-	-
E-HRI	-	48,724	48,724	48,724	-	-
Integrated Acquisition Environment	-	18,866	18,866	18,866	-	-
Human Resources Management LoB	65,217	-	65,217	-	56,739	8,478
Financial Management LoB	44,444	-	44,444	-	38,666	5,778
Budget Formulation/Execution LoB	95,000	-	95,000	-	82,650	12,350
E-Payroll (incl. Shared Services)	-	304,704	304,704	304,704	-	-
Total	\$869,315	\$902,303	\$1,771,618	\$902,303	\$756,304	\$113,011

Totals may not add due to rounding.

The total for all NSF FY 2011 inter-agency E-Government and Line of Business contributions for the initiative funding levels reported, and including any new development items, is not currently projected by the Federal CIO Council to change significantly from the FY 2010 aggregate level. Specific levels presented here are subject to change, as redistributions to meet changes in resource demands are assessed.

Benefits realized through the use of these activities are:

- *Grants.gov*

The Grants.gov Initiative provides grant applicants with a single source to search and apply for funding opportunities from all Federal grant-making agencies using common forms, processes, and systems. With NSF's full implementation of Grants.gov, the research community can now find and apply for NSF funding opportunities on Grants.gov as well as through NSF's FastLane web site.

NSF recognizes the benefits that Grants.gov provides to the research community through use of standardized terminology, application forms and electronic submission processes. NSF has leveraged Grants.gov in the development of five agency specific forms (of which only 2 are required) and has used them 100 percent of the time; NSF uses government-wide forms 100 percent of the time for its application packages. In FY 2009, NSF published 36 funding opportunities on Grants.gov and published associated application packages for 32 of those opportunities. NSF received 640 electronic applications through Grants.gov in FY 2009.

- *Grants Management Line of Business (GM LoB)*

NSF anticipates the key benefit of the GM LoB will be having a common place for grantees to track the status of applications, find award information, and submit grant progress and financial reports. Automated business processes available through Consortia will decrease agency reliance on manual and paper-based processing. The GM LoB will lead to a reduction in the number of systems of record for grants data across NSF and the government and will foster the development of common reporting standards, improving NSF's ability to provide agency- and government-wide reports on grant activities and results.

As a GM LoB Consortium lead, NSF has developed Research.gov, in partnership with NASA, the Defense Research Agencies, and USDA National Institute of Food and Agriculture. Research.gov is a web portal containing government-wide resources and tools for research institutions to conduct grants business with Federal research agencies.

By leading the GM LoB Consortium, NSF will receive the following benefits:

- Avoiding costs related to developing and implementing online grants management services;
- Supporting federal agencies' efforts to promote their common research mission;
- Fulfilling federal mandates (Public Law 106-107, President's Management Agenda, E-Government Act, and the Federal Funding Accountability and Transparency Act); and
- Organizing information into a single access point throughout the grants management business process.

Service to constituents will be improved through the standardization and streamlining of government-wide grants business processes. The public will receive time savings as a result of quicker notification and faster payments due to an automated system for grants processing. Furthermore, GM LoB will minimize complex and varying agency-specific requirements and increase grantee ease of use on Federal grants management systems. Constituents will benefit from having fewer unique agency systems and processes to learn; grantees' will benefit from ease in learning how to use the system and reduced need to rely on call center technical support.

- *Geospatial Line of Business*

NSF supports basic research at the frontiers of discovery across all fields of (non-medical) science through competitive proposals that are evaluated using merit-based peer review. To advance its mission, NSF actively participates in activities that shape and enhance the scientific enterprise. Although NSF is not currently a provider of a geospatial data, it does consider proposals for support of fundamental research that utilizes or enhances the value of geospatial information. NSF recognizes the importance of the LoB in establishing a more collaborative and performance-oriented culture within the Federal geospatial arena that should optimize investments in data and technology and yield many long-term benefits to the nation.

- *Human Resources Management Line of Business (HR LoB)*

NSF benefits through its use of best-in-class HR services and systems provided by one of the approved service providers, the Department of Interior's National Business Center. Through its adoption of an approved service provider, NSF achieves the benefits of "best-in-class" HR solutions and offers employees across the agency improved HR services without the costs of developing and maintaining their own HR systems. Participation in HR LoB allows NSF to participate in the implementation of modern HR solutions and benefit from best practices and government-wide strategic HR management.

- *Financial Management Line of Business (FM LoB)*

NSF will realize the following benefits through participation in FM LoB and usage of a FM Shared Service Provider (SSP):

- Cost Savings;
- Minimizing Risk: SSP customers will be able to minimize risk by implementing and using financial systems that are already operating with standard operating procedures;

- **Avoiding Duplicate Operational Costs:** Reducing redundant costs by using standard business processes and a common system software certified by the Financial System Integration Office in the General Services Administration; and
 - **Facilitating Best Practices/Standardization:** Key tools such as a Request for Proposal framework and Service Level Agreement guides will be provided to NSF to help in the development of agency agreements with SSPs.
- *Budget Formulation and Execution Line of Business (BFE LoB)*

BFE LoB provides significant benefits to partner agencies by encouraging best practices crossing all aspects of Federal budgeting -- from budget formulation and execution to performance to collaboration to human capital needs. To benefit all agencies, BFE LoB continues to support idea of shared service budget systems. NSF has not yet chosen a budget system; however, a shared service budget system is an option.

BFE LoB's "MAX Federal Community", a secure government-only collaborative website, provides significant benefits for collaboration across and within agencies, as well as knowledge management. NSF currently has 223 users registered for the MAX Federal Community. The Community site is commonly used for sharing information, collaboratively drafting documents (including the direct-editing of documents posted on the site), supporting workgroups, submitting central reports, and much more. NSF also has the option to use BFE LoB's online meeting tool for NSF budget meetings.