

**PROGRAM ACCOUNTS:  
R&RA and EHR**

**\$124,770,000  
+\$15,260,000/ 13.9%**

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

**Summary of R&RA and EHR-Funded Model Organization**

(Dollars in Millions)

	FY 2012		FY 2014 Request	Change Over	
	FY 2012 Actual	Enacted/ Annualized FY 2013 CR		FY 2012 Enacted Amount	Percent
IPA Costs	\$42.63	\$44.51	\$47.67	\$3.16	7.1%
Program Related Administration	62.05	65.00	77.10	12.10	18.6%
<i>Program Related Technology</i>	<i>58.12</i>	<i>58.00</i>	<i>61.21</i>	<i>3.21</i>	<i>5.5%</i>
<i>Other Program Related Administration</i>	<i>3.93</i>	<i>7.00</i>	<i>15.89</i>	<i>8.89</i>	<i>127.0%</i>
<b>Total, R&amp;RA and EHR Funded Model Organization</b>	<b>\$104.68</b>	<b>\$109.51</b>	<b>\$124.77</b>	<b>\$15.26</b>	<b>13.9%</b>

Totals may not add due to rounding.

**IPA Costs**

**IPA Costs by Appropriation**

(Dollars in Millions)

	FY 2012		FY 2014 Request	Change Over	
	FY 2012 Actual	Enacted/ Annualized FY 2013 CR		FY 2012 Enacted Amount	Percent
Number of IPAs <sup>1</sup>	184	183	195	12	6.6%
<b>R&amp;RA</b>					
IPA Compensation	\$30.35	\$32.54	\$34.68	\$2.14	6.6%
IPA Lost Consultant & Per Diem	3.35	3.54	3.58	0.04	1.1%
IPA Travel	3.06	2.14	2.87	0.73	34.1%
Subtotal, R&RA Costs	36.76	38.22	41.13	2.91	7.6%
<b>EHR</b>					
IPA Compensation	4.80	5.36	5.53	0.17	3.2%
IPA Lost Consultant & Per Diem	0.65	0.75	0.78	0.03	4.0%
IPA Travel	0.43	0.18	0.23	0.05	27.8%
Subtotal, EHR Costs	5.87	6.29	6.54	0.25	4.0%
<b>Total, IPA Costs<sup>2</sup></b>	<b>\$42.63</b>	<b>\$44.51</b>	<b>\$47.67</b>	<b>\$3.16</b>	<b>7.1%</b>

Totals may not add due to rounding.

<sup>1</sup>Includes five IPAs in staff offices (BFA, OIRM and OLPA) funded by Other Program Related Administration and included in General Program and Evaluation (P&E) activities.

<sup>2</sup>The costs associated with the five IPAs in staff offices are included in Other Program Related Administration.

A portion of NSF's workforce consists of temporary employees hired through the authority provided by the Intergovernmental Personnel Act (IPA). IPAs remain employees of their home institution while serving alongside NSF employees during their temporary assignment. They are not paid directly by NSF and are not subject to federal pay and benefits limitations. NSF reimburses the home institution directly for salary and benefits using the traditional grant mechanism. IPAs are eligible to receive relocation expenses or an allowance in lieu of an NSF-arranged household goods move, and reimbursement for a portion of income foregone because of their assignment at NSF (i.e., lost consulting fees).

The FY 2014 Request of \$47.67 million represents an increase of \$3.16 million, or 7.1 percent, from the FY 2012 Enacted level of \$44.51 million. Additional funding supports an increase in IPA FTE utilization in FY 2014. NSF has managed its IPA program using an IPA allocation ceiling of 195 since FY 2009. In the last two years, IPA FTE utilization rates have been improving. Consequently, NSF anticipates IPA utilization will increase by 12 IPA FTE from the FY 2012 Enacted level to reach its IPA allocation of 195 IPA FTE.

The expertise provided by these additional IPAs is essential to help shape the NSF research portfolio and support transformational advances across the frontiers of all fields of science, engineering, and education, and to address the current workload imbalances identified during the workforce planning process employed by the Division of Human Resource Management (HRM) in 2012. In order to fully utilize the current IPA FTE allocation, NSF will continue to aggressively manage IPA staffing levels and recruiting efforts through concerted partnership between the directorates and offices, HRM, and academe.

FY 2014 funding for IPA Compensation is \$40.21 million, an increase of \$2.31 million from the FY 2012 Enacted level of \$37.90. IPA Lost Consultant & Per Diem is funded at \$4.36 million, an increase of \$70,000 from FY 2012. Funding increases in these two categories are associated with full use of NSF's existing IPA FTE allocation.

The FY 2014 Request for IPA travel is \$3.10 million, which represents a \$780,000 increase over the FY 2012 Enacted level of \$2.32 million, but a decrease of \$390,000 below the FY 2012 Actual of \$3.49 million. The decrease reflects actions taken to reduce travel spending in conjunction with OMB Memorandum M-12-12, *Promoting Efficient Spending to Support Agency Operations*. Institution of annual travel targets and the use of automated travel financial reports provide the means by which NSF directorates and offices can closely monitor and manage IPA travel obligations to ensure that travel reduction goals are achieved.

**Program Related Administration**

Program Related Administration (PRA) includes two categories of activities that support the Perform as a Model Organization Goal and that are directly funded from NSF’s program accounts.

- Program Related Technology
- Other Program Related Administration

**Program Related Administration**

(Dollars in Millions)

	FY 2012 Actual	FY 2012 Enacted/ Annualized FY 2013 CR	FY 2014 Request	Change Over	
				FY 2012 Enacted Amount	Percent
Program Related Technology	\$58.12	\$58.00	\$61.21	\$3.21	5.5%
Other Program Related Administration	3.93	7.00	15.89	8.89	127.0%
<b>Total, Program Related Administration</b>	<b>\$62.05</b>	<b>\$65.00</b>	<b>\$77.10</b>	<b>\$12.10</b>	<b>18.6%</b>

Totals may not add due to rounding.

**Program Related Technology**

Program Related Technology (PRT) activities, which relate directly to NSF’s programmatic investments, are funded through the Research and Related Activities (R&RA) and Education and Human Resources (EHR) accounts. NSF’s FY 2014 total information technology (IT) investment is \$83.39 million; \$61.21 million, or 73 percent, is funded by the R&RA and EHR appropriations as these investments relate directly to NSF’s programmatic activities.

Resources to support administrative applications are discussed in the Agency Operations and Award Management (AOAM) account.

**FY 2014 Program Related Technology Investments**

(Dollars in Millions)

	FY 2012 Actual	FY 2012 Enacted/ Annualized FY 2013 CR	FY 2014 Request	Change Over	
				FY 2012 Enacted Amount	Percent
PRT (R&RA and EHR)					
Mission-Support Applications Services	\$41.13	\$41.13	\$43.84	\$2.71	6.6%
Associated IT Operations and Infrastructure	14.03	13.91	14.41	0.50	3.6%
Related Security and Privacy Services	2.96	2.96	2.96	-	-
<b>Total, Program Related Technology</b>	<b>\$58.12</b>	<b>\$58.00</b>	<b>\$61.21</b>	<b>\$3.21</b>	<b>5.5%</b>

Totals may not add due to rounding.

NSF is dedicated to the support of fundamental research across all fields of science and engineering (with the exception of medical science) and all levels of science and engineering education. NSF fulfills its mission by issuing grants to fund specific research proposals that have been judged the most promising by a rigorous and objective review system. With this single mission focus, PRT investments are critical to supporting science and engineering research and education activities within the Foundation.

NSF's FY 2014, PRT information technology priorities include:

- Ensuring NSF's FY 2014 Information Technology (IT) investments align with the Administration's emphasis of ensuring the efficient and effective usage of federal resources by implementing practices that produce greater cost efficiencies, such as migrating IT infrastructure to cloud services, and investing in innovative IT solutions that produce a favorable return on investment within 18 months or demonstrably improve citizen services or administrative efficiencies. These new, innovative IT investments for the Foundation include planning and implementing an integrated data warehouse; employing new virtual meeting technologies to enable more virtual review panels for grant proposals; and increasing public access to NSF data.
- Supporting the implementation of iTRAK, the Foundation-wide strategic initiative to transition NSF from its disparate, aging financial and property management systems to a fully integrated financial management and property solution.
- Maintaining mission-related applications and services and the operations, infrastructure, and security that support these applications at current service levels.

The FY 2014 Request of \$61.21 million for PRT represents an increase of \$3.21 million over the FY 2012 Enacted and will be used for the following activities and initiatives:

*Mission-Support Applications and Service (+\$2.71 million, to a total of \$43.84 million)*

Investments in this category support NSF program staff in completing the merit review process, including pre-award planning and activities; receipt of proposals; processing proposals; reviewing proposals; award decisions, documentation, and notification; funding awards; post-award monitoring and oversight; dissemination of award results; and award close-out. Mission-related applications and services include investments such as Research.gov, eJacket, and FastLane.

- iTRAK is the Foundation-wide strategic initiative to transition NSF from its disparate, aging financial and property management systems to a fully integrated financial management and property solution. In FY 2014, the total request for iTRAK is \$2.60 million. Consistent with the FY 2012 Enacted, 70 percent of this request will be funded by PRT and 30 percent will be funded by AOAM. For FY 2014, the PRT portion of the iTRAK request is \$1.82 million. The majority of support for the implementation of iTRAK occurred in FY 2012 and FY 2013, therefore the FY 2014 funding amount represents a decrease of \$2.11 million from the FY 2012 Enacted level. iTRAK implementation for core financial functions is scheduled for completion in FY 2014.
- Legacy mission applications, including FastLane (\$5.85 million) and eJacket (\$6.82 million), provide comprehensive services for NSF staff, applicants, and awardees to manage the grants life cycle. These legacy applications support NSF business processes, providing effective mission-support technology solutions for NSF's ongoing grants management needs. For FY 2014, the total request for legacy mission-related applications is \$27.62 million. This reflects a \$5.42 million increase over the FY 2012 Enacted, which will be used for the following activities:
  - \$750,000 to increase public access to NSF data, thereby promoting and protecting open, transparent, and responsible scientific communication. Specifically, the funds requested will be used to make changes to NSF's legacy mission applications to integrate with an existing system that will support NSF in making its data publically available. Making changes to NSF's legacy systems in order to leverage an existing repository will make NSF data publically accessible in a more timely and cost effective manner than if NSF were to develop its own system for this purpose, which is consistent with the Administration's "Shared First" initiative that seeks to leverage agency IT spending through the shared usage of existing investments in the federal government.

- The remaining \$4.67 million increase will be used to make functional changes necessary for the ongoing operation of these applications. Many of these changes were deferred in FY 2012 and FY 2013 in order to support iTRAK and are critical to the continued operation of these applications.
- Research.gov is a community driven solution, led by NSF, that gives the general public, the science, engineering, research, and education community, and Congressional staff easy access to key information and services in one location ([www.research.gov](http://www.research.gov)). Research.gov also provides services to help NSF staff plan and manage their programs and portfolios of proposals and awards. For FY 2014, the Research.gov request is \$10.17 million, which represents a decrease of \$4.83 million from the FY 2012 Enacted. The impact of this decrease will be to defer enhancements and augmentations to existing Research.gov services.
- To enable new and future innovative IT applications and systems that support mission-related activities, \$4.23 million is requested to initiate planning and implementation, of an integrated enterprise data warehouse that will provide the foundation for these activities. Implementation of a data warehouse at the enterprise level avoids costs associated with operating separate data warehouses or data marts for individual IT investments; enables IT tools to support critical NSF mission activities, such as increased public access to NSF data and improved evaluation and assessment of NSF investments; and achieves administrative efficiencies by centralizing and streamlining access to NSF data.

*Associated IT Operations and Infrastructure (+\$500,000, to a total of \$14.41 million)*

Investments in this category provide basic maintenance and operations levels for ongoing operations. NSF's IT-enabled business infrastructure supports the operation of mission-essential IT applications and office automation activities, including its network and telecommunications requirements. This includes NSF's data center, network, hosting, phone, email, and remote access services. Network services include NSF's primary network for NSF staff, external network for NSF visitors, and connection to Internet2 for scientific purposes. Additionally, this category includes NSF's call center and customer care services. NSF provides customer care support for internal users (NSF staff) and external users (the research community including institutions, principal investigators, panelists, and other NSF visitors) 14-hours per day, five days per week. The call center assists NSF's research community of institutions and principal investigators with functions such as preparing and submitting proposals, financial reports, and progress reports to NSF. A call center, desktop support, and a walk-in center offer technical assistance to NSF staff and visitors.

The \$500,000 increase over the FY 2012 Enacted is part of a \$2.23 million investment in NSF's Merit Review Process Improvements initiative to expand NSF's infrastructure and virtual meeting technologies to enable increased virtual participation in reviews of NSF proposals. Currently, the predominant review method for NSF proposals is an in-person review panel where a set of experts travel to NSF to evaluate proposals. Enabling more virtual panels will reduce the overall cost of conducting review panels, avoid travel costs associated with onsite panels, and increase the diversity of NSF reviewers by allowing reviewers who are unable to travel to participate in the review process. The remainder of the investment will be funded by reducing infrastructure costs through consolidation and virtualization; moving additional infrastructure to the cloud; reducing call center and customer care services; and deferring replacement of aging infrastructure. Additional information on the Merit Review Process Improvement investment is provided in the NSF-wide Investments chapter of this request.

*Related IT Security and Privacy Services (no change, to a total of \$2.96 million)*

Investments in this category include automated configuration management tools that manage security patches and provide proactive protection from viruses, spyware, and other threats. Critical investments

include network security, application security, security control testing and tools, automated vulnerability assessment tools, and remediation and intrusion detection services.

**Other Program Related Administration (\$8.89 million, to a total of \$15.89 million)**

**FY 2014 Other Program Related Administration**

(Dollars in Millions)

	FY 2012		FY 2014 Request	Change Over	
	FY 2012 Actual	Enacted/ Annualized FY 2013 CR		FY 2012 Enacted Amount	Percent
Major NSF-wide Investments					
Evaluation Capability	-	-	\$5.50	\$5.50	N/A
Merit Review Process Improvements	-	-	0.30	0.30	N/A
Public Access Initiative	-	-	1.75	1.75	N/A
Other					
E-Government Initiatives <sup>1</sup>	0.65	0.70	1.07	0.37	52.9%
General Planning and Evaluation Activities	3.28	6.30	7.27	0.97	15.4%
<b>Total, Other Program Related Administration</b>	<b>\$3.93</b>	<b>\$7.00</b>	<b>\$15.89</b>	<b>\$8.89</b>	<b>127.0%</b>

Totals may not add due to rounding.

<sup>1</sup> A full-year 2013 appropriation was not enacted at the time the budget was prepared. The amount shown for FY 2013 E-Government Initiatives funding is a placeholder and reflects the FY 2012 Enacted level. Current FY 2013 E-Government Initiatives funding estimates can be found in the Model Organization chapter of this request.

**Major NSF-wide Investments**

Evaluation Capability, (+\$5.50 million, to a total of \$5.50 million): In FY 2014, Other Program Related Administration resources will be used to strengthen the Foundation's evaluation and data collection activities. Two to three evaluations of NSF activities that cross organizational boundaries will be initiated. The programs chosen will be NSF-wide programs or strategic investments that span directorates. As part of this effort, NSF will build expertise on evaluation designs and methodology to plan and manage NSF-wide evaluations and to provide consultation NSF-wide. To improve the rigor of NSF evaluations, the evaluation capability will develop and manage a clearinghouse to review statements of work and evaluation designs against quality principles. A searchable repository will be built to house evaluation results and reports centrally so that information can routinely be used for decision making. Additional information on the Evaluation Capability is provided in the NSF-wide Investments chapter of this request.

Merit Review Process Improvements, (+\$300,000, to a total of \$300,000): FY 2014 Other Program Related Administration funding of \$300,000 will support an assessment to determine the impacts of NSF's investments in improving the merit review process and to identify further potential to enhance the process. Additional information on the Merit Review Process Improvement investment is provided in the NSF-wide Investments chapter of this request

Public Access Initiative, (+\$1.75 million, to a total of \$1.75 million): FY 2014 funding for Other Program Related Administration will be used to support NSF's efforts to make the result of NSF research more broadly available to the public. Specifically, the funding will be used to support outreach, stakeholder engagement, and the required repository services. Additional information on the Public Access Initiative is provided in the NSF-wide Investments chapter of this request.

**Other**

E-Government Initiatives, (+\$440,000, to a total of \$1.07 million): In FY 2014, NSF program-supported funding for mission-related E-Government initiatives is \$1.07 million, representing an increase of \$440,000 over the FY 2012 Enacted. The FY 2014 increase is primarily associated with the shifting of NSF funding of \$235,465 for the Integrated Acquisition Environment (IAE) – Loans and Grants initiative that was previously funded by the AOAM account to Other Program Related Administration. NSF proposes to begin funding IAE – Loans and Grants through Other Program Related Administration since the service benefits provided by the initiative – usage of the Dun and Bradstreet (D&B) Data Universal Numbering System (DUNS) by NSF’s grant applicants and the public posting of NSF-award information on USASpending.gov – are directly related to NSF’s grants-making mission. The remaining increase for E-Government Initiatives is due to an overall higher FY 2014 funding request submitted to NSF by the respective managing partner agencies. Additional detail on NSF funding for specific E-Government initiatives is provided in the Model Organization Overview section of this chapter.

General Planning and Evaluation Activities (P&E), (+\$970,000, to a total of \$7.27 million): FY 2014 Other Program Related Administration funding for P&E activities will be \$7.27 million to support the verification and validation of performance information; the Waterman Award; some AAAS fellowship program and internships; IPAs associated with select NSF-wide activities; and studies and reports. The FY 2014 Request is based on the level of Other PRA activities and projects anticipated in FY 2014.

