

Introduction and NSF Overview

National Science Foundation Fall Grants Conference

Pittsburgh, PA - November 14 & 15 - Carnegie Mellon University

NSF Speaker

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Chief Financial Officer and Office Head, Office of Budget, Finance & Award Management

Introduction and NSF Overview





Topics Covered

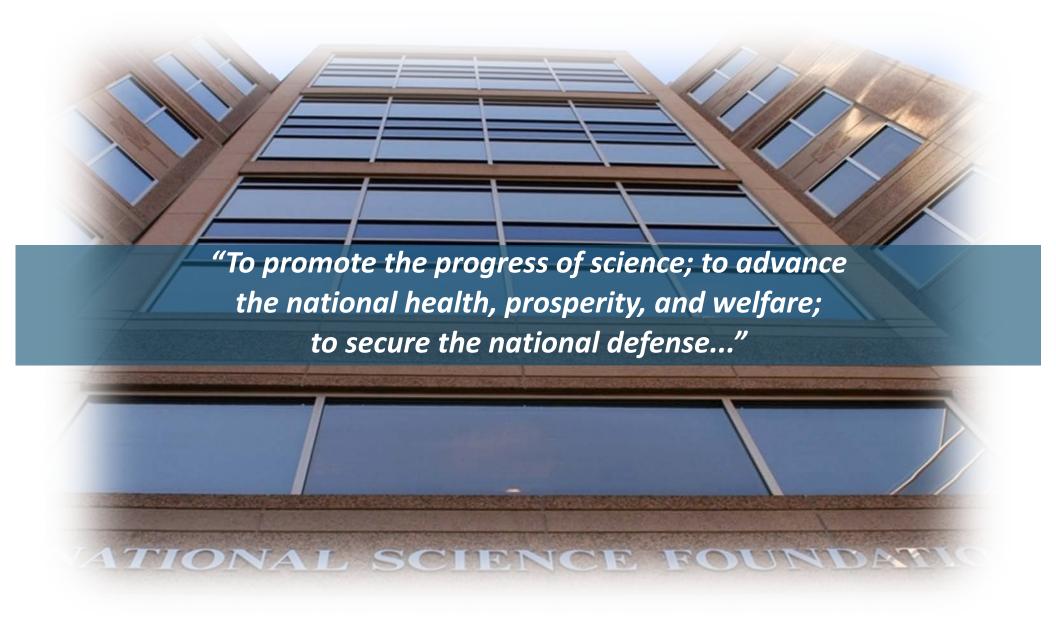
- Origins of NSF
- NSF Organization
- NSF Budget in the Federal Context
- NSF Fiscal Year 2017 Budget
- Funding Trends
- Key Documents
- Questions



"Ask Early, Ask Often!"



NSF Mission





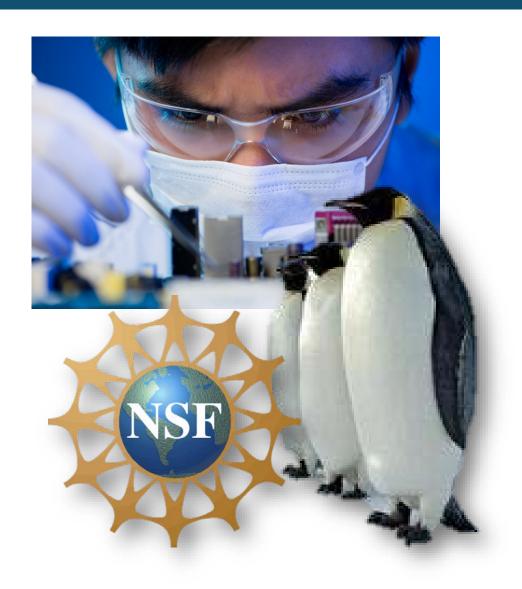
Supporting Basic Research

Basic research results in general knowledge and an understanding of nature and its laws. This general knowledge provides the means of answering a large number of important practical problems.- Vannevar Bush



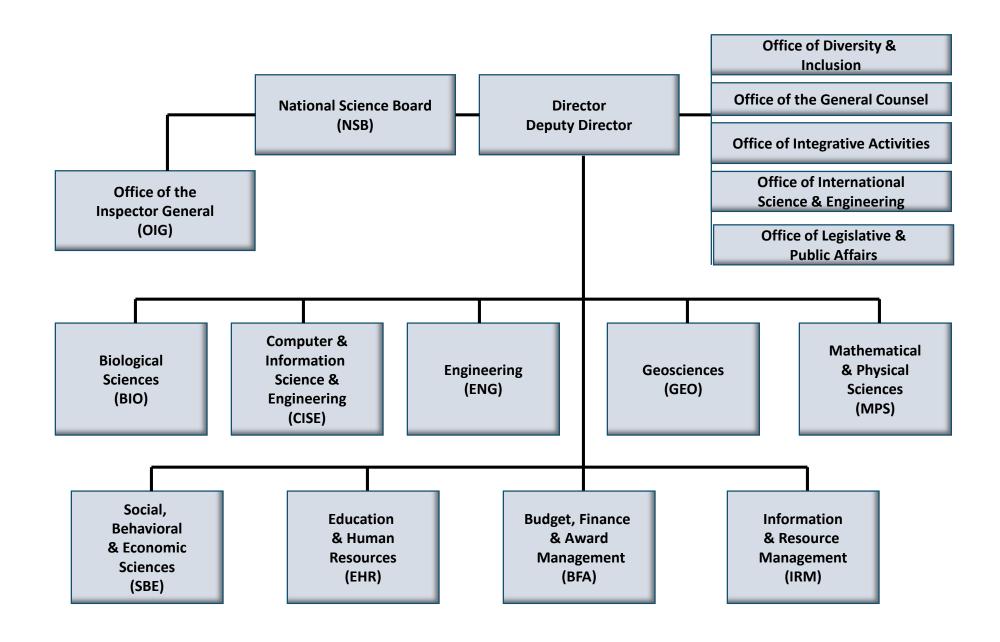
NSF in a Nutshell

- Independent Agency
- Supports basic research & education
- Uses grant mechanism
- Low overhead; highly automated
- Discipline-based structure
- Cross-disciplinary mechanisms
- Use of Rotators/IPAs
- National Science Board





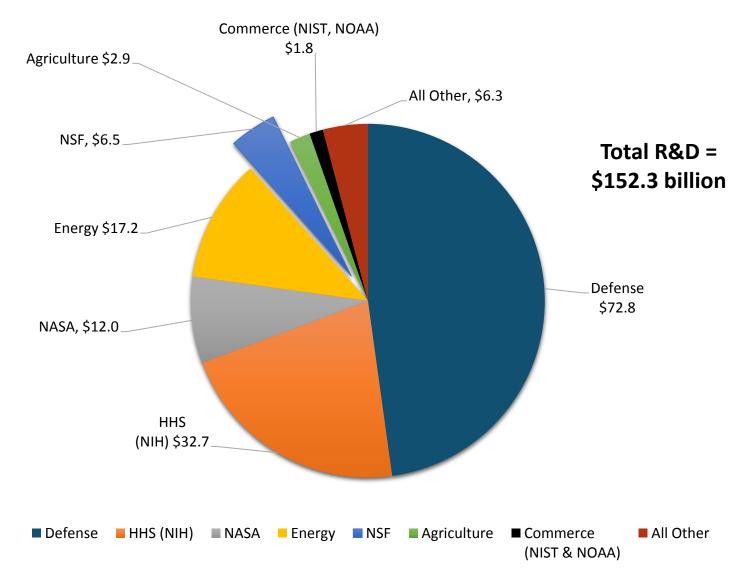
How NSF is Organized





FY 2017 Request: Total R&D by Agency

Budget Authority in Billions of Dollars

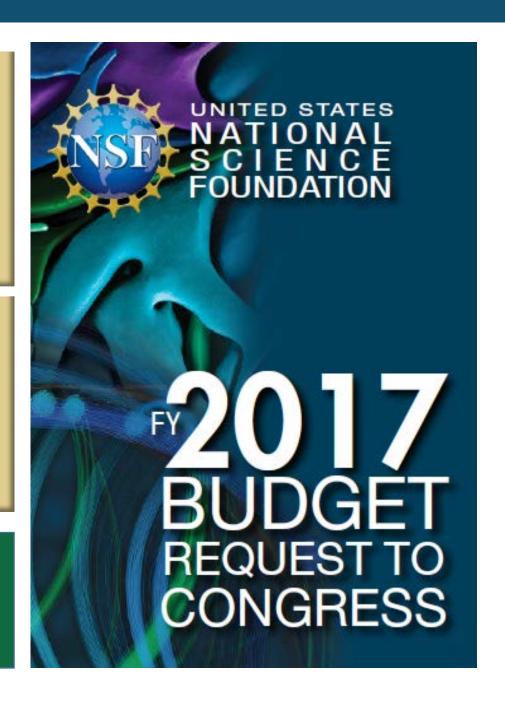




Total NSF Request

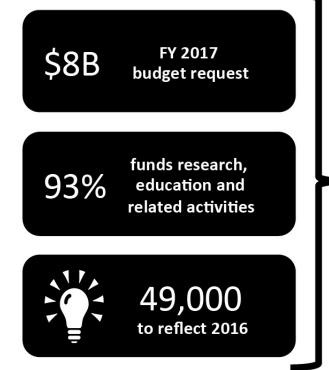
- \$7.964 billion
 - \$501 million increase
 - 6.7 percent over FY 2016 Enacted

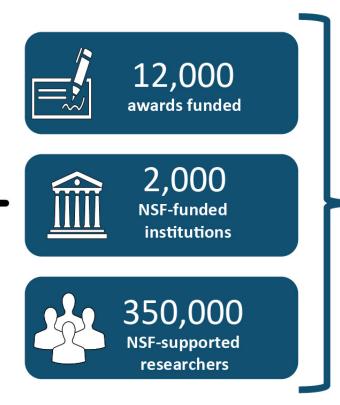
- Two Funding Sources
 - \$7.564 billion, discretionary funding (+1.3 percent)
 - \$400 million, new one-time mandatory/direct spending authority





NSF by the Numbers



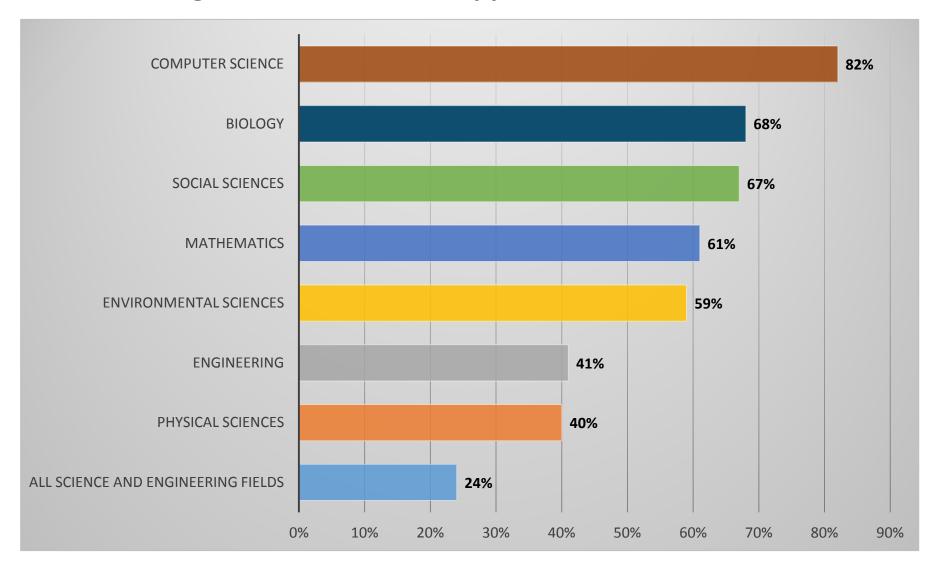






NSF Support of Academic Basic Research in Selected Fields

As a Percentage of Total Federal Support





FY 2017 Budget Request

NSF Budget by Appropriation (\$ in Millions)	FY 2017 Request	Change over FY 2016	
		Amount	Percent
Research & Related Activities	\$6,425.44	\$391.79	6.5%
Education & Human Resources	\$952.86	\$72.86	8.3%
Major Research Equipment & Facilities Construction	\$193.12	-\$7.19	-3.6%
Agency Operations & Award Management	\$373.02	\$43.02	13.0%
National Science Board	\$4.38	*	*
Office of Inspector General	\$15.20	*	*
Total NSF	\$7,964.02	\$500.53	6.7%

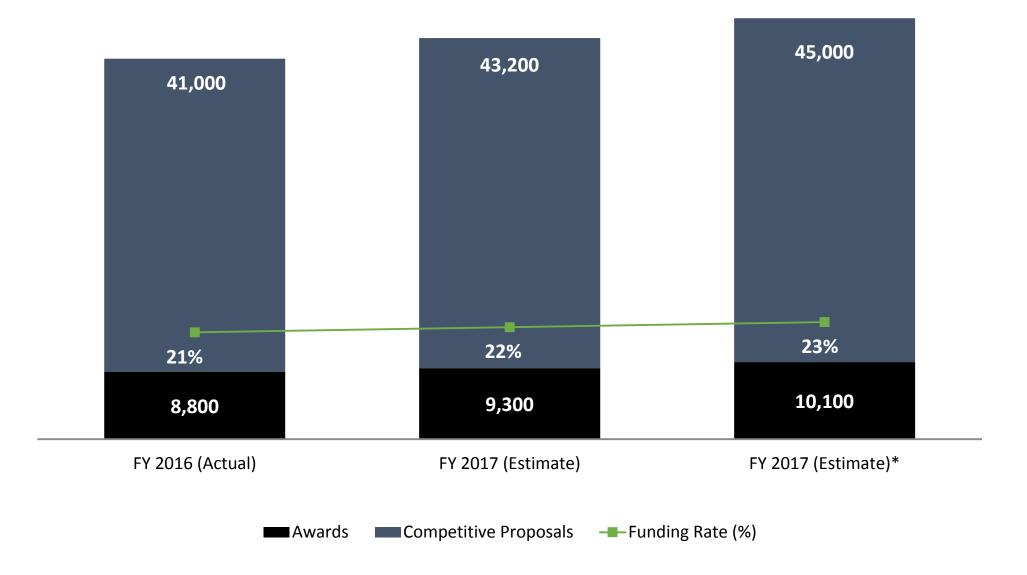
Totals may not add due to rounding.



^{*} denotes <\$50,000 or <1%

NSF Funding Profile, FY 2016 - 2017

Research Grants Awards





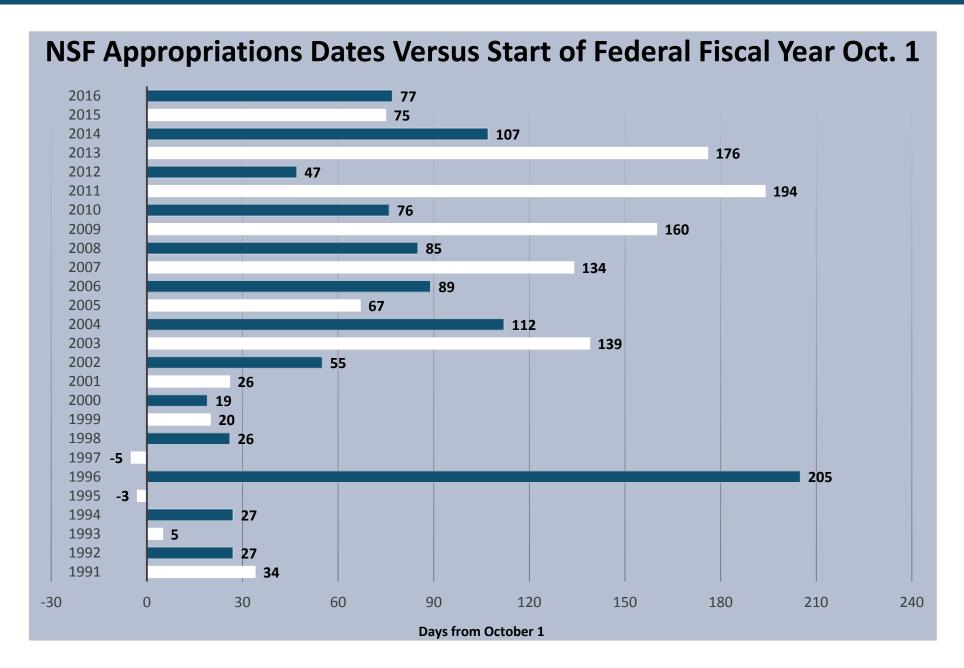
What to Watch

- Currently under Continuing Resolution until Dec. 9
- Further Action on FY 2017 Appropriations
- NSF's Reauthorization
- FY 2018 Request



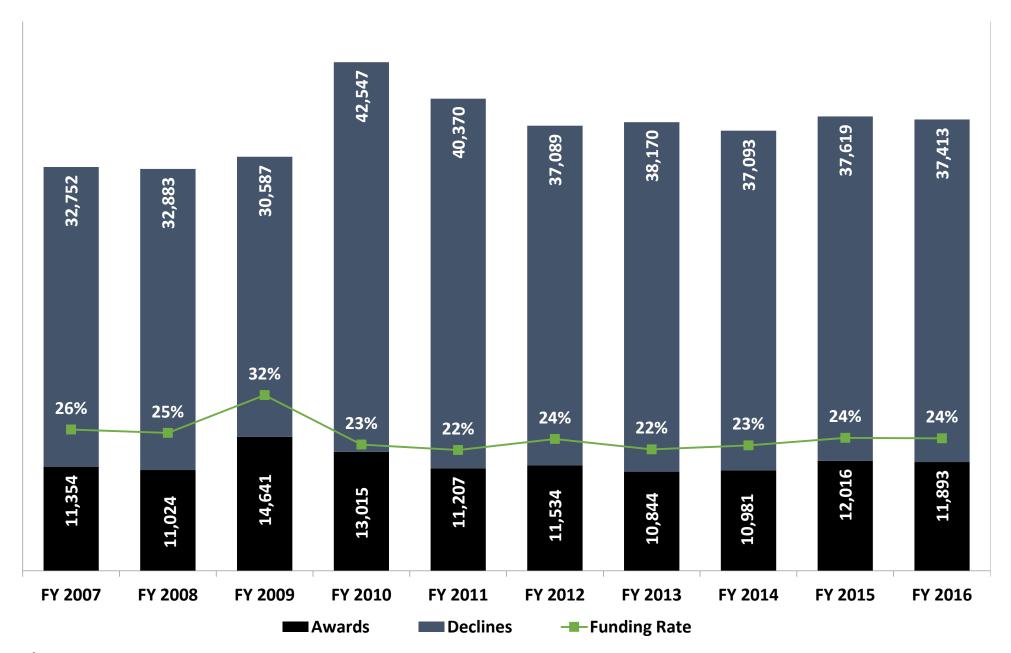


Appropriations Drift - 1991 to 2016



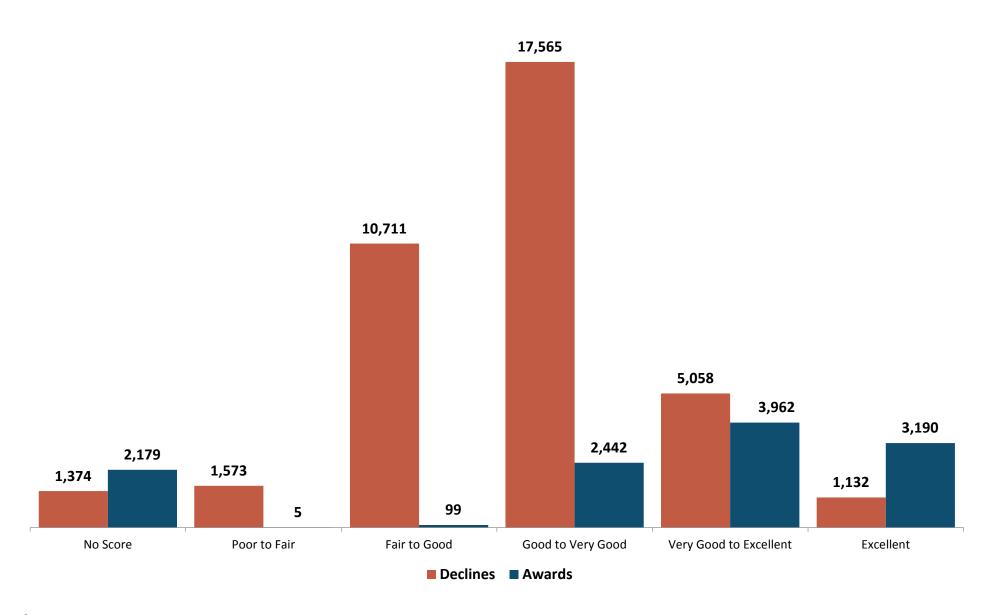


NSF Competitive Awards, Declines & Funding Rates





Distribution by Average Reviewer Ratings

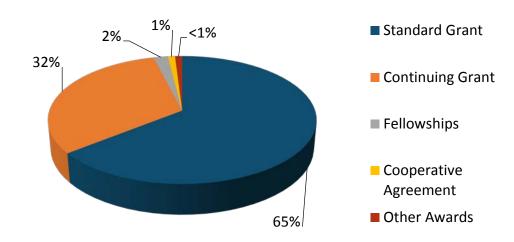




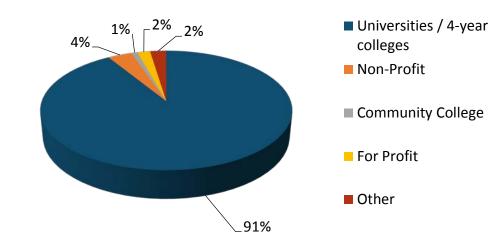
NSF Award Portfolio

- Over \$27 billion in total award funding
- Over 42,000 active awards
 - Standard and continuing grants
 - Cooperative agreements
 - Graduate research fellowships
 - Other awards
- Over 2,000 Awardees
 - Universities / 4-year colleges
 - Non-profit organizations
 - For-profit organizations
 - Community colleges
 - Other awardees

Type of Award Instrument



Type of Awardee Institution





Conference Award Portfolio

- Carnegie Mellon University
 - 437 active awards totaling \$266.6 million
 - 3,466 lifetime awards totaling \$1.4 billion
- Conference Attendees
 - 96 of 113 organizations registered have 14,305 active awards totaling \$10.3 billion





Key Documents

- Proposal & Award Policies & Procedures Guide
 - www.nsf.gov/publications/pub_summ.jsp?ods_key=papp
- Fiscal Year 2017 Budget Request
 - www.nsf.gov/about/budget/fy2017/index.jsp
- NSF Strategic Plan for Fiscal Years 2014-2018
 - www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14043
- NSB Report on Merit Review
 - www.nsf.gov/nsb/publications/pub_summ.jsp?ods_key=nsb1333





For More Information



