

NSF Budget Update

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National Science Board
Committee on Strategy
Open Session

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TOPICS

- FY 2018 Outcome
 - NSF Total Funds Levels - FY 2017, FY 2018, and FY 2019
 - Noteworthy items for NSF in the FY 2018 Appropriations
 - Current Plan Development, Next Steps
- FY 2019 Request
 - Account levels
 - Highlights
 - Action to Date, Outlook for FY 2019



NSF TOTAL FUNDING LEVELS FY17, FY18, FY19

(Dollars in Millions)

	FY 2017	FY 2018	FY 2019
	Enacted	Enacted	Request
NSF Total Funding	\$7,472	\$7,767	\$7,472



NOTEWORTHY ITEMS IN THE FY 2018 APPROPRIATION FOR NSF

- Report language supports the importance of NSF's overall investment
- Strong support for NSF research infrastructure and major facilities
- MREFC: Directs construction of 3 Regional Class Research Vessels
- Hispanic Serving Institutions increased \$15 M to \$30 M
- No directorate level allocations



FY 2018 CURRENT PLAN DEVELOPMENT

- FY 2018 Appropriation enacted March 23, 2018
- Next Steps:
 - Draft FY 2018 Current Plan letter now at OMB for clearance
 - Submit to Congress by May 7
 - Anticipate approval from Congress within 15 days
- Until approved, all details remain close hold

FY 2019 PRESIDENT'S BUDGET REQUEST

- FY 2019 President's Budget Request released February 12, 2018

(Dollars in Millions)

NSF by Account	FY 2018 Enacted	FY 2019 Request	Change over	
			Amount	Percent
Research & Related Activities	\$6,334	\$6,151	-\$183	-3%
Education & Human Resources	902	873	-29	-3%
Major Research Equipment & Facilities Construction	183	95	-88	-48%
Agency Operations & Award Management	329	334	5	2%
National Science Board	4	4	-	-
Office of Inspector General	15	15	-	-
Total	\$7,767	\$7,472	-\$295	-4%



FY 2019 ITEMS OF NOTE

- Big Ideas stewardship model
- Convergence Accelerators
- Other Items of note
- Major Research Equipment and Facilities Construction
- Agency Operations and Award Management



FY 2019 BIG IDEAS STEWARDSHIP MODEL

Big Ideas	FY 2019 Request
Research Ideas	\$180.00
Harnessing the Data Revolution for 21st- Century Science and Engineering - HDR (CISE/ITR)	30.00
Navigating the New Arctic - NNA (GEO/ICER)	30.00
The Future of Work at the Human-Technology Frontier - FW-HTF (ENG/EFMA)	30.00
The Quantum Leap - QL (MPS/OMA)	30.00
Understanding the Rules of Life - URoL (BIO/EF)	30.00
Windows on the Universe - WoU (MPS/OMA)	30.00
Process Ideas	\$102.50
Growing Convergence Research - GCR (IA)	16.00
Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science - NSF INCLUDES (EHR)	20.00
Mid-Scale Research Infrastructure (IA)	60.00
NSF 2026 Fund (IA)	6.50
Total, NSF Big Ideas	\$282.50



FY 2019 CONVERGENCE ACCELERATORS

- Harnessing the Data Revolution (\$30 million)
- The Future of Work at the Human-Technology Frontier (\$30 million)
- Funding requested as part of Integrative Activities
 - Accelerators managed outside of existing org structure
 - Separate investments in Accelerator and related Big Idea



FY 2019 OTHER ITEMS OF NOTE

- Antarctic Infrastructure Modernization for Science (AIMS): \$104 million, year 1 of 8 funding profile, TPC \$355 million
- SBE Directorate funding:
 - SBE Science: \$195 million, \$23 million below FY 2017 Current Plan
 - National Center for Science and Engineering Statistics: \$51 million
- Graduate Research Fellowship Program:
1,500 new fellows supported in FY 2019
 - Decrease of 500 new fellows from level supported in FY 2018



MAJOR RESEARCH EQUIPMENT AND FACILITY CONSTRUCTION (MREFC) ACCOUNT

MREFC Account Funding, by Project

(Dollars in Millions)

	FY 2018 Enacted	FY 2019 Request
DKIST	\$20	\$16
LSST	58	49
RCRV	105	29
Enhanced Oversight	0	1
Total	\$183	\$95

- Regional Class Research Vessel: two vessels in FY 2019 vs support for three in FY 2018
- DKIST, LSST funding follows funding profile for projects



FY 2019 REQUEST

AGENCY OPERATIONS AND AWARD MANAGEMENT

- Total funding level: \$334 million
- Reflects savings from completion of headquarters relocation, and reduction in rent and utilities cost
- No reduction in staffing (1,310 FTE, flat to FY 2017 and FY 2018)
- No Cost of Living Adjustment, per OMB