Science & Innovation
in the Federal Budget

Key Programs in Fiscal Years 2016-2018

Produced by: **SSTi**

Science & Innovation in the Federal Budget

Each year, SSTI reports on science and innovation funding in the federal budget. This year's initial budget article provided a brief recap of key priorities. The following report provides a detailed breakdown of more than 220 line items across 19 federal agencies, with three years of funding levels for each initiative.

Reading the tables

The information is broken down by agency in alphabetical order. Semi-independent offices are listed with their host agencies (e.g., Economic Development Administration with the Department of Commerce).

Bolded offices/programs indicate a primary line items. Any following regular-weight, indented items provide further detail on these primary appropriations and their funding is included in the bold figures (when given).

The trend lines show the direction of funding *for each program* and are not an indicator of absolute or relative performance across programs.

A few items throughout the report are highlighted. These items are key programs, new initiatives, or line items with notable changes in funding levels.

Context is always helpful when interpreting budget data. For example, a "0" does not always indicate that the program received no funding in that fiscal year. Agencies often have some leeway in creating certain initiatives out of other funds. Congress also may shift whether it assumes a program to be included within a larger pool of funding versus providing a specific line item from budget to budget. Similarly, a wild funding swing may not indicate shifting priorities, and may instead reflect a planned period of construction or other capital investment transitioning to less-expensive programmatic funding.

Tracking the federal budgets

The report's appropriations levels were primarily collected from the conference reports accompanying the final budget passed for each year, as published in the *Congressional Record*. These documents do not always provide a direct appropriation for every initiative that is funded by an agency. In a few cases, the agency's own report of its funding levels were used to supplement the information from the reports.

Line items to track were selected based on a mix of criteria, including direct knowledge of the program, research into program activities, and on the program name and context within the budget. In some cases, the report provides only a sub-category of activity (e.g., planetary science) instead of providing every figure given in the bill. If you think the report overlooks a worthwhile and trackable line item, please let us know by emailing contactus@ssti.org.

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Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Department of Agriculture	**Agricultural Research Service**	**1,355.9**	**1,269.8**	**1,343.4**	
	Buildings & Facilities	212.1	99.6	140.6	
	Economic Research Service	**85.4**	**86.8**	**86.8**	
	Forest Service: Forest & Rangeland Research	**291.0**	**288.5**	**297.0**	
	National Institute of Food & Agriculture	**1,326.5**	**1,362.9**	**1,407.8**	
	Integrated Activities	30.9	36.0	37.0	
	Research & Education Activities	819.7	849.5	887.2	
	Rural Development	**225.8**	**225.8**	**235.8**	
	Business & Industry	62.7	65.3	77.3	
	Community Facilities	42.3	47.1	48.6	
	Distance Learning & Telemedicine (STEM)	0.0	0.5	0.0	
	Distance Learning, Telemedicine & Broadband	36.9	65.6	67.0	
	Intermediary Relending	9.7	9.9	8.8	
	Rural Broadband Pilot Program	0.0	0.0	600.0	
	Rural Cooperative Development Grants	22.1	26.6	27.6	
	Rural Electrification & Telecommunications Loans	34.8	36.4	34.1	
	Rural Energy for America	0.5	0.4	0.3	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Department of Commerce	**Bureau of the Census**	**1,370.0**	**1,470.0**	**2,814.0**	
	Economic & Statistical Analysis	**109.0**	**107.3**	**99.0**	
	Economic Development Administration	**261.0**	**276.0**	**301.5**	
	Regional Innovation Strategies	15.0	17.0	21.0	
	International Trade Administration	**493.0**	**495.0**	**495.0**	
	Minority Business Development Agency	**32.0**	**34.0**	**39.0**	
	National Institute of Standards & Technology	**964.0**	**952.0**	**1,198.5**	
	Construction of Research Facilities	119.0	109.0	319.0	
	Manufacturing Extension Partnership	130.0	130.0	140.0	
	National Network for Manufacturing Innovation	25.0	25.0	15.0	
	Scientific & Technical Research & Services	690.0	690.0	724.5	
	National Oceanic & Atmospheric Administration	**5,765.6**	**5,675.4**	**5,909.4**	
	Operations, Research & Facilities	3,305.8	3,367.9	3,536.3	
	National Telecommunications & Information Admin.	**39.5**	**32.0**	**39.5**	
	Patent & Trademark Office	**3,272.0**	**3,230.0**	**3,500.0**	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Department of Defense	**Research Development Test & Evaluation (RDTE)**	**69,784.7**	**72,301.6**	**88,308.1**	
	Air Force RDTE	**25,217.1**	**27,788.5**	**37,428.1**	
	Applied Research	1,241.9	1,325.7	1,434.7	
	Engineering & Manufacturing Development	3,913.0	3,964.9	4,417.0	
	Manufacturing Technology Program	52.8	62.3	65.1	
	Tech Transition Program	266.5	385.3	1,050.8	
	Technology Transfer	7.6	8.4	18.3	
	University Research Initiatives	141.8	150.0	162.9	
	Army RDTE	**7,565.3**	**8,333.0**	**10,647.4**	
	Applied Research	1,092.9	1,220.3	1,369.4	
	Engineering & Manufacturing Development	2,085.5	2,248.7	3,212.4	
	University & Industry Research Centers	104.3	112.3	107.4	
	University Research Initiatives	72.6	69.2	77.0	
	Navy RDTE	**18,117.7**	**17,214.5**	**18,010.8**	
	Applied Research	966.6	980.3	994.1	
	Engineering & Manufacturing Development	6,275.2	5,755.3	6,091.3	
	Manufacturing Technology Program	57.1	56.7	67.8	
	Marine Corps Additive Mfg Tech Development	0.0	0.0	6.2	
	Marine Corps Advanced Technology Demonstration	131.6	140.4	165.0	
	University Research Initiatives	146.2	121.7	144.1	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
	Defense-Wide RDTE	**18,696.0**	**18,778.6**	**22,011.0**	
	Applied Research	1,702.6	1,769.9	1,883.5	
	Defense Innovation Unit Experimental (DIUX)	0.0	0.0	23.6	
	Defense Rapid Innovation Program	250.0	250.0	250.0	
	Defense-Wide Manufacturing S&T Program	157.1	158.4	186.2	
	Engineering & Manufacturing Development	521.8	622.0	795.4	
	Engineering Science & Technology	18.4	22.7	25.4	
	Historically Black Colleges & Universities	35.8	33.6	40.0	
	Homeland Defense Technology Transfer Program	2.1	7.0	2.1	
	Manufacturing Technology Program	0.0	41.3	40.5	
	Rapid Prototyping Program	0.0	100.0	50.0	
	SBIR/STTR	2.2	2.2	2.4	
	Software Engineering Institute	15.2	14.3	15.0	
	Technology Innovation	0.0	19.9	19.9	
	University Strategic Partnership Research	36.4	35.4	37.2	
	Defense Health Program: RDTE	**2,121.9**	**2,102.1**	**2,039.3**	
	Global War on Terrorism: RDTE	**231.4**	**406.7**	**926.9**	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Department of Education	Education Innovation & Research	120.0	100.0	120.0	
	Institute of Education Sciences	592.6	605.3	613.5	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

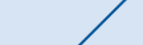| Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Department of Energy	**Advanced Research Projects Agency - Energy**	**291.0**	**306.0**	**353.3**	
	Electricity Delivery & Energy Reliability	**206.0**	**230.0**	**248.3**	
	Energy Efficiency & Renewable Energy	**2,073.0**	**2,090.2**	**2,321.8**	
	Advanced Manufacturing	228.5	257.5	305.0	
	Energy Efficiency	721.0	761.6	858.7	
	Renewable Energy	478.1	451.1	519.5	
	Sustainable Transportation	636.0	613.0	674.0	
	Fossil Energy R&D	**632.0**	**668.0**	**726.8**	
	Nuclear Energy	**986.2**	**1,016.6**	**1,205.1**	
	Fuel Cycle R&D	203.8	207.5	260.1	
	Integrated University Programs	5.0	5.0	5.0	
	Reactor Concepts R&D	141.7	132.0	237.0	
	SMR Licensing Technical Support	62.5	95.0	0.0	
	STEP R&D	5.0	5.0	5.0	
	Office of Science	**5,350.2**	**5,392.0**	**6,259.9**	
	EPSCoR	15.0	15.0	20.0	
	Science Laboratories Infrastructure	113.6	66.5	104.4	
	Workforce Development for Teachers & Scientists	19.5	19.5	19.5	
	Title 17 Innovative Technology Loan Guarantee	**17.0**	**7.0**	**23.0**	
	National Nuclear Security Administration: RDTE	**1,816.5**	**1,842.2**	**2,034.4**	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Department of Health & Human Services	**Administration for Community Living**				
	National Institute of Disability, Independent Living & Rehabilitation Research	104.0	104.0	105.0	
	University Centers of Excellence in Developmental Disabilities	38.6	38.6	40.6	
	Biomedical Advanced R&D Authority	**511.7**	**511.7**	**536.7**	
	Centers for Disease Control	**6,326.1**	**6,348.9**	**7,260.3**	
	Community Services Block Grant Programs				
	Economic Development	29.9	19.9	19.9	
	Grants to States for Community Services	715.0	715.0	715.0	
	Rural Community Facilities	6.5	7.5	8.0	
	Food & Drug Administration	**2,729.6**	**2,771.2**	**2,800.1**	
	Center for Biologics Evaluation & Research	174.1	174.1	174.1	
	Center for Devices & Radiological Health	240.8	246.3	246.3	
	Center for Drug Evaluation & Research	355.3	356.0	359.4	
	Center for Food Safety & Applied Nutrition	304.0	311.0	316.1	
	Center for Veterinary Medicine	94.0	98.2	107.9	
	National Center for Toxicological Research	63.3	63.3	63.3	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
	National Institutes of Health	**32,084.0**	**34,084.0**	**37,084.0**	
	Innovation Account	352.0	352.0	496.0	
	National Cancer Institute	5,214.7	5,389.3	5,664.8	
	National Center for Advancing Translational Sciences	685.4	705.9	742.4	
	National Center for Complementary & Integrative Health	130.8	134.7	142.2	
	National Eye Institute	715.9	732.6	772.3	
	National Health, Lung & Blood Institute	3,115.5	3,206.6	3,383.2	
	National Human Genome Institute	519.0	528.6	556.9	
	National Institute of Aging	1,600.2	2,048.6	2,574.1	
	National Institute of Alcohol Abuse & Alcoholism	467.7	483.4	509.6	
	National Institute of Allergy & Infectious Disease	4,629.9	4,906.6	5,260.2	
	National Institute of Arthritis & Musculoskeletal & Skin Diseases	542.2	557.9	586.7	
	National Institute of Biomedical Imaging & Bioengineering	346.8	357.1	377.9	
	National Institute of Child Health & Human Development	1,339.8	1,380.3	1,452.0	
	National Institute of Deafness & Other Communications Disorders	423.1	436.9	460.0	
	National Institute of Dental & Craniofacial Research	415.6	425.8	447.7	
	National Institute of Diabetes & Digestive & Kidney Disease	1,819.4	1,870.6	1,970.8	
	National Institute of Drug Abuse	1,077.2	1,090.9	1,383.6	
	National Institute of Environmental Health Sciences	693.7	714.3	751.1	
	National Institute of General Medical Services	1,732.1	1,826.4	1,862.5	
	National Institute of Mental Health	1,548.4	1,601.9	1,711.8	
	National Institute of Neurological Disorders & Stroke	1,696.2	1,783.7	2,145.1	
	National Institute of Nursing Research	146.4	150.3	158.0	
	National Institute on Minority Health & Health Disparities	279.7	289.1	303.2	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Department of Homeland Security	**R&D**	**160.0**	**155.1**	**145.7**	
	Science & Technology Directorate	**786.9**	**781.7**	**840.9**	
	Research, Development & Innovation	434.9	430.1	469.3	
	University Programs	39.7	40.5	40.5	
	Coast Guard: RDTE	**18.0**	**2.5**	**29.1**	
	Transportation Security Administration: R&D	**0.0**	**5.0**	**20.2**	
	U.S. Customs & Border Protection: Commercial Technology Innovation Program	**0.0**	**0.0**	**10.0**	
	National Protection & Programs Directorate: R&D	**6.1**	**6.5**	**15.1**	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Department of Housing & Urban Development	**Community Development Block Grants**	**3,000.0**	**3,000.0**	**3,300.0**	
	Research & Technology	**85.0**	**89.0**	**38.5**	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Department of Labor	**Bureau of Labor Statistics**	**609.0**	**609.0**	**612.0**	
	Employment & Training Administration	**10,064.4**	**9,974.2**	**10,018.2**	
	Adult Training	815.6	815.6	845.6	
	Apprenticeship Grants	90.0	95.0	145.0	
	Dislocated Worker Assistance	1,241.7	1,241.7	1,261.7	
	Veterans Employment & Training	**271.1**	**279.0**	**295.0**	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

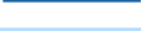| Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Department of the Interior	**Bureau of Reclamation**				
	R&D: Desalination & Water Purification	16.6	11.8	17.8	
	Science & Technology	26.2	22.8	16.8	
	Geological Survey	**1,062.0**	**1,085.2**	**1,148.5**	
	Core Science Systems	111.6	116.1	116.3	
	Water Availability & Use Science	42.1	45.1	46.1	
	Office of Surface Mining Reclamation & Enforcement: Tech Development & Transfer	**0.0**	**15.2**	**12.8**	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Department of Transportation	**Research & Technology**	**13.0**	**13.0**	**23.5**	
	Transportation Planning, R&D	**8.5**	**12.0**	**14.0**	
	Federal Aviation Administration				
	Advanced Materials/Structural Safety: Partnered R&D	7.4	2.0	10.5	
	Environment & Energy Research	16.1	16.0	18.0	
	NextGen Environmental Research	25.8	27.2	29.2	
	Research, Engineering & Development	166.0	176.5	188.9	
	Unmanned Aircraft Systems Research	17.6	20.0	24.0	
	Federal Railroad Administration: R&D	**39.1**	**40.1**	**40.6**	
	National Highway Traffic Safety Administration: Vehicle Electronics & Emerging Technology	**3.6**	**10.1**	**15.0**	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Department of the Treasury	**Community Development Financial Institutions Fund**	**233.5**	**248.0**	**250.0**	
	Financial & Technical Assistance Grants	153.4	161.5	160.0	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Environmental Protection Agency	**Science & Technology**	**734.6**	**713.8**	**713.8**	
	Research: Air, Climate & Energy	91.9	91.9	91.9	
	Research: Chemical Safety & Sustainability	126.9	126.9	126.9	
	Research: National Priorities	14.1	4.1	4.1	
	Research: Safe & Sustainable Water Resources	107.5	106.3	106.3	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
National Aeronautics & Space Administration	**Education**	**115.0**	**100.0**	**100.0**	
	EPSCoR	18.0	18.0	18.0	
	Minority University Research & Education	32.0	32.0	32.0	
	Space Grant	40.0	40.0	40.0	
	STEM Education & Accountability	25.0	10.0	10.0	
	Science	**5,589.4**	**5,764.9**	**6,221.5**	
	Earth Science	1,921.0	1,921.0	1,921.0	
	Education & Public Outreach	37.0	37.0	0.0	
	Planetary Science	1,631.0	1,846.0	2,227.9	
	Space Technology	**686.5**	**686.5**	**760.0**	
	Additive Manufacturing	0.0	25.0	25.0	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
National Science Foundation	**National Science Foundation Total**	**7,463.5**	**7,472.2**	**7,767.4**	
	Education & Human Resources	**880.0**	**880.0**	**902.0**	
	Advancing Informal STEM Learning	36.3	62.5	62.5	
	Community Colleges	7.5	7.5	7.5	
	CyberCorps Scholarships for Service	50.0	55.0	55.0	
	Hispanic Serving Institution	0.0	15.0	30.0	
	Historically Black Colleges & Universities	35.0	35.0	35.0	
	I-Corps	30.0	30.0	0.0	
	Louis Stokes Alliance for Minority Population	46.0	46.0	46.0	
	STEM+C	35.4	51.9	51.9	
	Tribal Colleges & Universities	14.0	14.0	14.0	
	Major Research Equipment & Facilities Construction	**200.3**	**330.9**	**287.8**	
	National Science Board	**4.4**	**4.4**	**4.4**	
	Research & Related Activities	**6,033.6**	**6,033.6**	**6,334.5**	
	EPSCoR	160.0	160.0	170.7	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Regional Agencies	**Appalachian Regional Commission**	**146.0**	**152.0**	**155.0**	
	Broadband Deployment	10.0	10.0	10.0	
	Industrial Site & Workforce Development	16.0	16.0	16.0	
	POWER Plus Plan	50.0	50.0	50.0	
	Delta Regional Authority	**25.0**	**25.0**	**25.0**	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
Small Business Administration	**Business Loans Programs**	**156.1**	**157.1**	**156.2**	
	Entrepreneurial Development Programs	**231.1**	**245.1**	**247.1**	
	Entrepreneurship Education	10.0	10.0	6.0	
	Growth Accelerators	1.0	1.0	1.0	
	PRIME Technical Assistance	5.0	5.0	5.0	
	Regional Innovation Clusters	6.0	5.0	5.0	
	SCORE	10.5	10.5	11.5	
	Small Business Development Centers	117.0	125.0	130.0	
	Veterans Outreach	12.3	12.3	12.3	
	Women's Business Centers	17.0	18.0	18.0	
	Federal & State Technology Partnership Program	**0.0**	**0.0**	**3.0**	

Science & Innovation Programs in the Federal Budget, FY 2016-2018

Agency	Office / Program	FY 2016 ($mm)	FY 2017 ($mm)	FY 2018 ($mm)	Trend line
White House	National Space Council	0.0	0.0	2.0	
	Office of Science & Technology Policy	5.6	5.6	5.5	

About SSTI

SSTI strengthens initiatives to create a better future through science, technology, innovation and entrepreneurship.

As the most comprehensive resource available for those involved in the innovation ecosystem, SSTI offers the services that are needed to help build innovation-based economies. We strive to maximize the capacity of our members to deliver successful outcomes within the context of the complex innovation communities in which they participate.

Since its inception in 1996, SSTI has developed a nationwide network of practitioners and policymakers dedicated to improving the economy through science, technology, innovation and entrepreneurship. To best assist nurturing more vibrant economies, SSTI conducts research on common performance standards, identifies best practices, analyzes trends in and policies affecting the innovation ecosystem, and fosters greater cooperation among and between all public, private and nonprofit organizations encouraging prosperity.

Learn more about SSTI at ssti.org.