

Office of Science
FY 2016–2018 Appropriation Summary
(budget authority in thousands)

	FY 2016 Enacted Approp.	FY 2016 Current w/ SBIR/STTR ^a	FY 2016 Current Approp. ^b	FY 2017 President's Request	FY 2017 Enacted Approp.	FY 2017 Enacted Approp. vs. FY 2017 President's Request	FY 2018 President's Request	FY 2018 President's Request vs. FY 2016 Current w/SBIR/STTR	FY 2018 President's Request vs. FY 2017 Enacted Approp.			
Science												
Advanced Scientific Computing Research												
Research	621,000	621,000	599,782	509,180	483,000	-26,180	-5.1%	525,430	-95,570	-15.4%	+42,430	+8.8%
17-SC-20 Office of Science Exascale Computing Project (SC-ECP)	.....	.....	.....	154,000	164,000	+10,000	+6.5%	196,580	+196,580	.....	+32,580	+19.9%
Total, Advanced Scientific Computing Research	621,000	621,000	599,782	663,180	647,000	-16,180	-2.4%	722,010	+101,010	+16.3%	+75,010	+11.6%
Basic Energy Sciences												
Research	1,648,700	1,648,700	1,594,112	1,746,730	1,681,500	-65,230	-3.7%	1,352,400	-296,300	-18.0%	-329,100	-19.6%
Construction												
13-SC-10 Linac Coherent Light Source-II, SLAC	200,300	200,300	200,300	190,000	190,000	.....	.....	182,100	-18,200	-9.1%	-7,900	-4.2%
18-SC-10 APS Upgrade, ANL	.....	.....	.....	.....	.....	.....	.....	20,000	+20,000	.....	+20,000	.....
Total, Construction	200,300	200,300	200,300	190,000	190,000	.....	.....	202,100	+1,800	+0.9%	+12,100	+6.4%
Total, Basic Energy Sciences	1,849,000	1,849,000	1,794,412	1,936,730	1,871,500	-65,230	-3.4%	1,554,500	-294,500	-15.9%	-317,000	-16.9%
Biological and Environmental Research	609,000	609,000	588,145	661,920	612,000	-49,920	-7.5%	348,950	-260,050	-42.7%	-263,050	-43.0%
Fusion Energy Sciences												
Research	323,000	323,000	312,267	273,178	330,000	+56,822	+20.8%	246,940	-76,060	-23.5%	-83,060	-25.2%
Construction												
14-SC-60 ITER	115,000	115,000	115,000	125,000	50,000	-75,000	-60.0%	63,000	-52,000	-45.2%	+13,000	+26.0%
Total, Fusion Energy Sciences	438,000	438,000	427,267	398,178	380,000	-18,178	-4.6%	309,940	-128,060	-29.2%	-70,060	-18.4%
High Energy Physics												
Research	728,900	728,900	708,053	729,476	731,500	+2,024	+0.3%	573,400	-155,500	-21.3%	-158,100	-21.6%
Construction												
11-SC-40 PED Long Baseline Neutrino Facility, FNAL	26,000	26,000	26,000	45,021	50,000	+4,979	+11.1%	54,900	+28,900	+111.2%	+4,900	+9.8%
11-SC-41 Muon to Electron Conversion Experiment, FNAL	40,100	40,100	40,100	43,500	43,500	.....	.....	44,400	+4,300	+10.7%	+900	+2.1%
Total, Construction	66,100	66,100	66,100	88,521	93,500	+4,979	+5.6%	99,300	+33,200	+50.2%	+5,800	+6.2%
Total, High Energy Physics	795,000	795,000	774,153	817,997	825,000	+7,003	+0.9%	672,700	-122,300	-15.4%	-152,300	-18.5%

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Nuclear Physics												
Operation and maintenance	509,600	509,600	493,454	535,658	522,000	-13,658	-2.5%	422,700	-86,900	-17.1%	-99,300	-19.0%
Construction												
14-SC-50 Facility for Rare Isotope Beams, Michigan State University	100,000	100,000	100,000	100,000	100,000	.....	.....	80,000	-20,000	-20.0%	-20,000	-20.0%
06-SC-01 12 GeV CEBAF Upgrade, TJNAF	7,500	7,500	7,500	.....	.....	.....	.....	-7,500	-100.0%	.....	.....	.....
Total, Construction	107,500	107,500	107,500	100,000	100,000	.....	.....	80,000	-27,500	-25.6%	-20,000	-20.0%
Total, Nuclear Physics	617,100	617,100	600,954	635,658	622,000	-13,658	-2.1%	502,700	-114,400	-18.5%	-119,300	-19.2%
Workforce Development for Teachers and Scientists	19,500	19,500	19,500	20,925	19,500	-1,425	-6.8%	14,000	-5,500	-28.2%	-5,500	-28.2%
Science Laboratories Infrastructure												
Infrastructure Support												
Payment in Lieu of Taxes	1,713	1,713	1,713	1,764	1,764	.....	.....	1,713	.....	.....	-51	-2.9%
Oak Ridge Landlord	6,177	6,177	6,177	6,182	6,182	.....	.....	6,082	-95	-1.5%	-100	-1.6%
Facilities and Infrastructure	24,800	24,800	24,800	32,603	32,603	.....	.....	5,105	-19,695	-79.4%	-27,498	-84.3%
Oak Ridge Nuclear Operations	12,000	12,000	12,000	26,000	26,000	.....	.....	10,000	-2,000	-16.7%	-16,000	-61.5%
Total, Infrastructure Support	44,690	44,690	44,690	66,549	66,549	.....	.....	22,900	-21,790	-48.8%	-43,649	-65.6%
Construction												
18-SC-71 Energy Sciences Capability at PNNL	.....	.....	.....	.....	.....	.....	.....	1,000	+1,000	.....	+1,000	.....
17-SC-71 Integrated Engineering Research Center	.....	.....	.....	2,500	2,500	.....	.....	1,500	+1,500	.....	-1,000	-40.0%
17-SC-73 Core Facility Revitalization, BNL	.....	.....	.....	1,800	1,800	.....	.....	1,500	+1,500	.....	-300	-16.7%
15-SC-76 Materials Design Laboratory, ANL	23,910	23,910	23,910	19,590	19,590	.....	.....	24,500	+590	+2.5%	+4,910	+25.1%
15-SC-77 Photon Science Laboratory Building, SLAC	25,000	25,000	25,000	20,000	20,000	.....	.....	.....	-25,000	-100.0%	-20,000	-100.0%
15-SC-78 Integrative Genomics Building, LBNL	20,000	20,000	20,000	19,561	19,561	.....	.....	24,800	+4,800	+24.0%	+5,239	+26.8%
Total, Construction	68,910	68,910	68,910	63,451	63,451	.....	.....	53,300	-15,610	-22.7%	-10,151	-16.0%
Total, Science Laboratories Infrastructure	113,600	113,600	113,600	130,000	130,000	.....	.....	76,200	-37,400	-32.9%	-53,800	-41.4%
Safeguards and Security	103,000	103,000	103,000	103,000	103,000	.....	.....	103,000	.....	.....	.....	.....
Program Direction	185,000	185,000	185,000	204,481	182,000	-22,481	-11.0%	168,516	-16,484	-8.9%	-13,484	-7.4%

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University Grants (Mandatory)	100,000	-100,000 -100.0%
Small Business Innovation Research/Technology Transfer (SBIR/STTR) (SC portion)	144,387
Subtotal, Office of Science	5,350,200	5,350,200	5,350,200	5,672,069	5,392,000	-280,069 -4.9%	4,472,516	-877,684 -16.4%	-919,484 -17.1%
SBIR/STTR (DOE transfer)	72,438
Rescission of prior year balances	-3,200	-3,200	-3,200	-239	-239	+3,200 +100.0%	+239 +100.0%
Total, Office of Science	5,347,000	5,347,000	5,419,438	5,672,069	5,391,761	-280,308 -4.9%	4,472,516	-874,484 -16.4%	-919,245 -17.0%
Recap:									
SBIR/STTR (total)	216,825

^aThe FY 2016 Enacted column printed in the FY 2018 Congressional Budget Justification (President's Request) includes SBIR/STTR funding in the program lines and reflects programmatic updates through the end of the fiscal year.

^bThe FY 2016 Current column reflects the enacted appropriation, the reallocation of SBIR/STTR funding within the Science account onto the SBIR/STTR (SC portion) line, and the transfer of SBIR/STTR funding from the other DOE programs into the SBIR/STTR (DOE transfer) line.