

**Office of Science
Statistical Table
(B/A in thousands)**

FY 2017 – FY 2019

Science

Advanced Scientific Computing Research

Research

17-SC-20 Office of Science Exascale Computing Project (SC-ECP)

Total, Advanced Scientific Computing Research

Basic Energy Sciences

Research

Construction

19-SC-14 Second Spallation Neutron Source (SNS) Target Station (STS), ORNL

18-SC-10 Advanced Photon Source (APS) Upgrade, ANL

18-SC-11 Spallation Neutron Source Proton Power Upgrade (PPU), ORNL

18-SC-12 Advanced Light Source Upgrade (ALS-U), LBNL

(19-SC-10 in FY 2019 President's Request)

18-SC-13 Linac Coherent Light Source-II-High Energy (LCLS-II-HE), SLAC

(19-SC-11 in FY 2019 President's Request)

13-SC-10 Linac Coherent Light Source-II, SLAC

Total, Construction

Total, Basic Energy Sciences

Biological and Environmental Research

Fusion Energy Sciences

Research

Construction

14-SC-60 ITER

Total, Fusion Energy Sciences

	FY 2017		FY 2018		FY 2019												
	Enacted Approp.	Current Approp.	Enacted Approp.		President's Request	President's Request vs. FY 2018 Enacted		House Mark	House Mark vs. President's Request		Senate Mark	Senate Mark vs. President's Request		Enacted	Enacted vs. President's Request		
Advanced Scientific Computing Research																	
Research	483,000	462,559	605,000	583,224	666,304	61,304	+10.1%	689,500	23,196	+3.5%	747,294	80,990	+12.2%	702,794	36,490	+5.5%	
17-SC-20 Office of Science Exascale Computing Project (SC-ECP)	164,000	164,000	205,000	205,000	232,706	27,706	+13.5%	225,000	-7,706	-3.3%	232,706	.....	.....	232,706	.....	.....
Total, Advanced Scientific Computing Research	647,000	626,559	810,000	788,224	899,010	89,010	+11.0%	914,500	15,490	+1.7%	980,000	80,990	+9.0%	935,500	36,490	+4.1%	
Basic Energy Sciences																	
Research	1,681,500	1,622,113	1,744,900	1,683,619	1,635,700	-109,200	-6.3%	1,759,933	124,233	+7.6%	1,751,100	115,400	+7.1%	1,757,700	122,000	+7.5%	
Construction																	
19-SC-14 Second Spallation Neutron Source (SNS) Target Station (STS), ORNL	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15,000	15,000	.....	60,000	60,000	.....
18-SC-10 Advanced Photon Source (APS) Upgrade, ANL	.....	.....	93,000	93,000	60,000	-33,000	-35.5%	130,000	70,000	+116.7%	140,000	80,000	+133.3%	28,000	-32,000	-53.3%
18-SC-11 Spallation Neutron Source Proton Power Upgrade (PPU), ORNL	.....	.....	36,000	36,000	.....	-36,000	-100.0%	20,000	20,000	.....	70,000	70,000	.....	1,000	1,000	.....
18-SC-12 Advanced Light Source Upgrade (ALS-U), LBNL	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(19-SC-10 in FY 2019 President's Request)	.....	.....	16,000	16,000	10,000	-6,000	-37.5%	50,000	40,000	+400.0%	50,000	40,000	+400.0%	130,000	120,000	+1,200.0%
18-SC-13 Linac Coherent Light Source-II-High Energy (LCLS-II-HE), SLAC	.....	.....	8,000	8,000	5,000	-3,000	-37.5%	40,000	35,000	+700.0%	28,000	23,000	+460.0%	60,000	55,000	+1,100.0%
(19-SC-11 in FY 2019 President's Request)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13-SC-10 Linac Coherent Light Source-II, SLAC	190,000	190,000	192,100	192,100	139,300	-52,800	-27.5%	129,300	-10,000	-7.2%	139,300	.....	.....	129,300	-10,000	-7.2%
Total, Construction	190,000	190,000	345,100	345,100	214,300	-130,800	-37.9%	369,300	155,000	+72.3%	442,300	228,000	+106.4%	408,300	194,000	+90.5%	
Total, Basic Energy Sciences	1,871,500	1,812,113	2,090,000	2,028,719	1,850,000	-240,000	-11.5%	2,129,233	279,233	+15.1%	2,193,400	343,400	+18.6%	2,166,000	316,000	+17.1%	
Biological and Environmental Research	612,000	588,826	673,000	648,600	500,000	-173,000	-25.7%	673,000	173,000	+34.6%	715,000	215,000	+43.0%	705,000	205,000	+41.0%	
Fusion Energy Sciences																	
Research	330,000	318,119	410,111	396,824	265,000	-145,111	-35.4%	427,000	162,000	+61.1%	303,000	38,000	+14.3%	432,000	167,000	+63.0%	
Construction																	
14-SC-60 ITER	50,000	50,000	122,000	122,000	75,000	-47,000	-38.5%	163,000	88,000	+117.3%	122,000	47,000	+62.7%	132,000	57,000	+76.0%	
Total, Fusion Energy Sciences	380,000	368,119	532,111	518,824	340,000	-192,111	-36.1%	590,000	250,000	+73.5%	425,000	85,000	+25.0%	564,000	224,000	+65.9%	

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FY 2017 – FY 2019																	
High Energy Physics																	
Research	731,500	709,349	767,600	743,173	627,000	-140,600	-18.3%	789,510	162,510	+25.9%	800,000	173,000	+27.6%	800,000	173,000	+27.6%	
Construction																	
18-SC-42 Proton Improvement Plan (PIP-II), FNAL	.....	.....	1,000	1,000	.....	-1,000	-100.0%	10,000	10,000	.....	35,000	35,000	.....	20,000	20,000	.....
11-SC-40 Long Baseline Neutrino Facility/Deep Underground Neutrino Facility (LBNF/DUNE), FNAL	50,000	50,000	95,000	95,000	113,000	18,000	+18.9%	175,000	62,000	+54.9%	145,000	32,000	+28.3%	130,000	17,000	+15.0%	
11-SC-41 Muon to Electron Conversion Experiment, FNAL	43,500	43,500	44,400	44,400	30,000	-14,400	-32.4%	30,000	.....	.....	30,000	.....	.....	30,000	.....	.....
Total, Construction	93,500	93,500	140,400	140,400	143,000	2,600	+1.9%	215,000	72,000	+50.3%	210,000	67,000	+46.9%	180,000	37,000	+25.9%	
Total, High Energy Physics	825,000	802,849	908,000	883,573	770,000	-138,000	-15.2%	1,004,510	234,510	+30.5%	1,010,000	240,000	+31.2%	980,000	210,000	+27.3%	
Nuclear Physics																	
Operation and maintenance	522,000	504,473	586,800	567,494	525,000	-61,800	-10.5%	615,000	90,000	+17.1%	635,000	110,000	+21.0%	615,000	90,000	+17.1%	
Construction																	
14-SC-50 Facility for Rare Isotope Beams, Michigan State University	100,000	100,000	97,200	97,200	75,000	-22,200	-22.8%	75,000	.....	.....	75,000	.....	.....	75,000	.....	.....
Total, Nuclear Physics	622,000	604,473	684,000	664,694	600,000	-84,000	-12.3%	690,000	90,000	+15.0%	710,000	110,000	+18.3%	690,000	90,000	+15.0%	
Workforce Development for Teachers and Scientists	19,500	19,500	19,500	19,500	19,000	-500	-2.6%	19,500	500	+2.6%	24,500	5,500	+28.9%	22,500	3,500	+18.4%	
Science Laboratories Infrastructure																	
Infrastructure Support																	
Payment in Lieu of Taxes	1,764	1,625	1,713	1,713	1,513	-200	-11.7%	1,513	.....	.....	1,713	200	+13.2%	1,713	200	+13.2%	
Oak Ridge Landlord	6,182	6,321	6,382	6,382	6,434	52	+0.8%	6,434	.....	.....	6,434	.....	.....	6,434	.....	.....
Facilities and Infrastructure	32,603	32,603	70,347	70,347	30,724	-39,623	-56.3%	80,000	49,276	+160.4%	48,253	17,529	+57.1%	45,543	14,819	+48.2%	
Oak Ridge Nuclear Operations	26,000	26,000	26,000	26,000	10,000	-16,000	-61.5%	10,000	.....	.....	26,000	16,000	+160.0%	26,000	16,000	+160.0%	
Total, Infrastructure Support	66,549	66,549	104,442	104,442	48,671	-55,771	-53.4%	97,947	49,276	+101.2%	82,400	33,729	+69.3%	79,690	31,019	+63.7%	

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FY 2017 – FY 2019

Construction

19-SC-71 Science User Support Center, BNL
19-SC-72 Electrical Capacity and Distribution Capability
19-SC-73 Translational Research Capability, ORNL
19-SC-74 BioEPIC Building, LBNL
19-SC-75 CEBAF Renovation and Expansion, TJNAF
19-SC-76 Craft Resources Support Facility, ORNL
19-SC-77 Large Scale Collaboration Center, SLAC
18-SC-71 Energy Sciences Capability at PNNL
17-SC-71 Integrated Engineering Research Center, FNAL
17-SC-73 Core Facility Revitalization, BNL
15-SC-76 Materials Design Laboratory, ANL
15-SC-77 Photon Science Laboratory Building, SLAC
15-SC-78 Integrative Genomics Building, LBNL

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Total, Construction	63,451	63,451	152,850	152,850	78,181	-74,669	-48.9%	192,200	114,019	+145.8%	219,700	141,519	+181.0%	153,200	75,019	+96.0%
Total, Science Laboratories Infrastructure	130,000	130,000	257,292	257,292	126,852	-130,440	-50.7%	290,147	163,295	+128.7%	302,100	175,248	+138.2%	232,890	106,038	+83.6%
Safeguards and Security	103,000	103,000	103,000	103,000	106,110	3,110	+3.0%	106,110	.....	.....	106,000	-110	-0.1%	106,110	.....	.....
Program Direction	182,000	182,000	183,000	183,000	180,000	-3,000	-1.6%	183,000	3,000	+1.7%	184,000	4,000	+2.2%	183,000	3,000	+1.7%
SBIR/STTR (SC portion)	.....	154,561	.....	164,477	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Subtotal, Office of Science	5,392,000	5,392,000	6,259,903	6,259,903	5,390,972	-868,931	-13.9%	6,600,000	1,209,028	+22.4%	6,650,000	1,259,028	+23.4%	6,585,000	1,194,028	+22.1%
SBIR/STTR (DOE transfer)	.....	90,813	.....	116,972	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rescission of prior year balances	-1,028	-1,028	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total, Office of Science	5,390,972	5,481,785	6,259,903	6,376,875	5,390,972	-868,931	-13.9%	6,600,000	1,209,028	+22.4%	6,650,000	1,259,028	+23.4%	6,585,000	1,194,028	+22.1%

Recap:

Small Business Innovation Research (total)	(245,374)	(281,449)
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