

**Science
Funding by Congressional Control (K)**

(dollars in thousands)

	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Request	FY 2020 Request vs FY 2019 Enacted
Advanced Scientific Computing Research				
Research	605,000	702,794	732,153	+29,359
17-SC-20, Office of Science Exascale Computing Project (SC-ECP)	205,000	232,706	188,735	-43,971
Total, Advanced Scientific Computing Research	810,000	935,500	920,888	-14,612
Basic Energy Sciences				
Research	1,744,900	1,757,700	1,675,285	-82,415
Construction				
19-SC-14, Second Target Station (STS), ORNL	—	1,000	1,000	—
18-SC-10, Advanced Photon Source Upgrade (APS-U), ANL	93,000	130,000	150,000	+20,000
18-SC-11, Spallation Neutron Source Proton Power Upgrade (PPU), ORNL	36,000	60,000	5,000	-55,000
18-SC-12, Advanced Light Source Upgrade (ALS-U), LBNL (19-SC-10)	16,000	60,000	13,000	-47,000
18-SC-13, Linac Coherent Light Source-II-High Energy (LCLS-II-HE), SLAC (19-SC-11)	8,000	28,000	14,000	-14,000
13-SC-10, Linac Coherent Light Source-II (LCLS-II), SLAC	192,100	129,300	—	-129,300
Total, Construction	345,100	408,300	183,000	-225,300
Total, Basic Energy Sciences	2,090,000	2,166,000	1,858,285	-307,715
Biological and Environmental Research	673,000	705,000	494,434	-210,566
Fusion Energy Sciences				
Research	410,111	432,000	294,750	-137,250
Construction				
20-SC-61, Matter in Extreme Conditions (MEC) Petawatt Upgrade	—	—	1,000	+1,000
14-SC-60, U.S. Contributions to ITER	122,000	132,000	107,000	-25,000
Total, Construction	122,000	132,000	108,000	-24,000
Total, Fusion Energy Sciences	532,111	564,000	402,750	-161,250
High Energy Physics				
Research	767,600	800,000	648,038	-151,962
Construction				
18-SC-42, Proton Improvement Plan II (PIP-II), FNAL	1,000	20,000	20,000	—
11-SC-40, Long Baseline Neutrino Facility/Deep Underground Neutrino Experiment (LBNF/DUNE), FNAL	95,000	130,000	100,000	-30,000
11-SC-41, Muon to Electron Conversion Experiment, FNAL	44,400	30,000	—	-30,000
Total, Construction	140,400	180,000	120,000	-60,000
Total, High Energy Physics	908,000	980,000	768,038	-211,962

(dollars in thousands)

	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Request	FY 2020 Request vs FY 2019 Enacted
Nuclear Physics				
Operation and Maintenance	586,800	615,000	579,854	-35,146
Construction				
20-SC-51, U.S. Stable Isotope Production and Research Center, ORNL	—	—	5,000	+5,000
14-SC-50, Facility for Rare Isotope Beams, MSU	97,200	75,000	40,000	-35,000
Total, Construction	97,200	75,000	45,000	-30,000
Total, Nuclear Physics	684,000	690,000	624,854	-65,146
Workforce Development for Teachers and Scientists	19,500	22,500	19,500	-3,000
Science Laboratories Infrastructure				
Infrastructure Support				
Payment in Lieu of Taxes	1,713	1,713	4,540	+2,827
Oak Ridge Landlord	6,382	6,434	5,610	-824
Facilities and Infrastructure	70,347	45,543	25,050	-20,493
Oak Ridge Nuclear Operations	26,000	26,000	10,000	-16,000
Total, Infrastructure Support	104,442	79,690	45,200	-35,490
Construction				
20-SC-71, Critical Utilities Rehabilitation Project, BNL	—	—	12,000	+12,000
20-SC-72, Seismic and Safety Modernization, LBNL	—	—	5,000	+5,000
20-SC-75, CEBAF Renovation and Expansion, TJNAF (19-SC-75)	—	—	2,000	+2,000
20-SC-76, Craft Resources Support Facility, ORNL (19-SC-76)	—	—	20,000	+20,000
20-SC-77, Large Scale Collaboration Center, SLAC (19-SC-77)	—	—	3,000	+3,000
19-SC-71, Science User Support Center, BNL	—	7,000	6,400	-600
19-SC-72, Electrical Capacity and Distribution Capability, ANL	—	30,000	30,000	—
19-SC-73, Translational Research Capacity, ORNL	—	25,000	15,000	-10,000
19-SC-74, BioEPIC, LBNL	—	5,000	6,000	+1,000
18-SC-71, Energy Sciences Capability, PNNL	20,000	24,000	9,000	-15,000
17-SC-71, Integrated Engineering Research Center, FNAL	20,000	20,000	10,000	-10,000
17-SC-73, Core Facility Revitalization, BNL	30,000	42,200	—	-42,200
15-SC-76, Materials Design Laboratory, ANL	44,500	—	—	—
15-SC-78, Integrative Genomics Building, LBNL	38,350	—	—	—
Total, Construction	152,850	153,200	118,400	-34,800
Total, Science Laboratories Infrastructure	257,292	232,890	163,600	-69,290
Safeguards and Security	103,000	106,110	110,623	+4,513
Program Direction	183,000	183,000	183,000	—
Total, Science	6,259,903	6,585,000	5,545,972	-1,039,028
Federal FTEs	825	810	797	-13

Science/Funding by Congressional Control

14

FY 2020 Congressional Budget Justification

SBIR/STTR funding:

- FY 2018 Enacted: SBIR \$143,935,000 and STTR \$20,240,000 (SC only)
- FY 2019 Enacted: SBIR \$148,264,000 and STTR \$20,851,000 (SC only)
- FY 2020 Request: SBIR \$132,747,000 and STTR \$18,667,000 (SC only)