

Science
Funding by Congressional Control

(dollars in thousands)

	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Request	FY 2021 Request vs FY 2020 Enacted
Advanced Scientific Computing Research				
Research	702,794	791,265	819,106	+27,841
17-SC-20, Office of Science Exascale Computing Project (SC-ECP)	232,706	188,735	168,945	-19,790
Total, Advanced Scientific Computing Research	935,500	980,000	988,051	+8,051
Basic Energy Sciences				
Research	1,757,700	1,853,000	1,751,673	-101,327
Construction				
21-SC-10, Cryomodule Repair & Maintenance Facility, SLAC	—	—	1,000	+1,000
19-SC-14, Second Target Station (STS), ORNL	1,000	20,000	1,000	-19,000
18-SC-10, Advanced Photon Source Upgrade (APS-U), ANL	130,000	170,000	150,000	-20,000
18-SC-11, Spallation Neutron Source Proton Power Upgrade (PPU), ORNL	60,000	60,000	5,000	-55,000
18-SC-12, Advanced Light Source Upgrade (ALS-U), LBNL (19-SC-10)	60,000	60,000	13,000	-47,000
18-SC-13, Linac Coherent Light Source-II-High Energy (LCLS-II-HE), SLAC (19-SC-11)	28,000	50,000	14,000	-36,000
13-SC-10, Linac Coherent Light Source-II (LCLS-II), SLAC	129,300	—	—	—
Total, Construction	408,300	360,000	184,000	-176,000
Total, Basic Energy Sciences	2,166,000	2,213,000	1,935,673	-277,327
Biological and Environmental Research	705,000	750,000	516,934	-233,066
Fusion Energy Sciences				
Research	432,000	414,000	313,151	-100,849
Construction				
20-SC-61, Matter in Extreme Conditions (MEC) Petawatt Upgrade	—	15,000	5,000	-10,000
14-SC-60, U.S. Contributions to ITER	132,000	242,000	107,000	-135,000
Total, Construction	132,000	257,000	112,000	-145,000
Total, Fusion Energy Sciences	564,000	671,000	425,151	-245,849

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High Energy Physics				
Research	800,000	814,000	697,631	-116,369
Construction				
18-SC-42, Proton Improvement Plan II (PIP-II), FNAL	20,000	60,000	20,000	-40,000
11-SC-40, Long Baseline Neutrino Facility/Deep Underground Neutrino Experiment (LBNF/DUNE), FNAL	130,000	171,000	100,500	-70,500
11-SC-41, Muon to Electron Conversion Experiment, FNAL	30,000	—	—	—
Total, Construction	180,000	231,000	120,500	-110,500
Total, High Energy Physics	980,000	1,045,000	818,131	-226,869
Nuclear Physics				
Operation and Maintenance	615,000	660,000	635,027	-24,973
Construction				
20-SC-51, U.S. Stable Isotope Production and Research Center, ORNL	—	12,000	12,000	—
20-SC-52, Electron Ion Collider, BNL	—	1,000	1,000	—
14-SC-50, Facility for Rare Isotope Beams, MSU	75,000	40,000	5,300	-34,700
Total, Construction	75,000	53,000	18,300	-34,700
Total, Nuclear Physics	690,000	713,000	653,327	-59,673
Workforce Development for Teachers and Scientists	22,500	28,000	20,500	-7,500
Science Laboratories Infrastructure				
Infrastructure Support				
Payment in Lieu of Taxes	1,713	4,540	4,650	+110
Oak Ridge Landlord	6,434	5,610	5,860	+250
Facilities and Infrastructure	45,543	56,850	6,200	-50,650
Oak Ridge Nuclear Operations	26,000	26,000	6,000	-20,000
Total, Infrastructure Support	79,690	93,000	22,710	-70,290

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Construction				
21-SC-71, Princeton Plasma Innovation Center, PPPL	—	—	2,000	+2,000
21-SC-72, Critical Infrastructure Recovery & Renewal, PPPL	—	—	2,000	+2,000
21-SC-73, Ames Infrastructure Modernization	—	—	2,000	+2,000
20-SC-71, Critical Utilities Rehabilitation Project, BNL	—	20,000	15,000	-5,000
20-SC-72, Seismic and Safety Modernization, LBNL	—	10,000	10,000	—
20-SC-73, CEBAF Renovation and Expansion, TJNAF (19-SC-75)	—	2,000	2,000	—
20-SC-74, Craft Resources Support Facility, ORNL (19-SC-76)	—	15,000	25,000	+10,000
20-SC-75, Large Scale Collaboration Center, SLAC (19-SC-77)	—	11,000	8,000	-3,000
20-SC-76, Tritium System Demolition and Disposal, PPPL	—	13,000	19,400	+6,400
20-SC-77, Argonne Utilities Upgrade, ANL	—	500	2,000	+1,500
20-SC-78, Linear Assets Modernization Project, LBNL	—	500	2,000	+1,500
20-SC-79, Critical Utilities Infrastructure Revitalization, SLAC	—	500	2,000	+1,500
20-SC-80, Utilities Infrastructure Project, FNAL	—	500	2,000	+1,500
19-SC-71, Science User Support Center, BNL	7,000	20,000	7,000	-13,000
19-SC-72, Electrical Capacity and Distribution Capability, ANL	30,000	30,000	—	-30,000
19-SC-73, Translational Research Capability, ORNL	25,000	25,000	10,000	-15,000
19-SC-74, BioEPIC, LBNL	5,000	15,000	6,000	-9,000
18-SC-71, Energy Sciences Capability, PNNL	24,000	23,000	23,000	—
17-SC-71, Integrated Engineering Research Center, FNAL	20,000	22,000	12,000	-10,000
17-SC-73, Core Facility Revitalization, BNL	42,200	—	—	—
Total, Construction	153,200	208,000	151,400	-56,600
Total, Science Laboratories Infrastructure	232,890	301,000	174,110	-126,890
Safeguards and Security	106,110	112,700	115,623	+2,923
Program Direction	183,000	186,300	190,306	+4,006
Total, Science	6,585,000	7,000,000	5,837,806	-1,162,194
Federal FTEs	810	785	785	—

SBIR/STTR funding:

- FY 2019 Enacted: SBIR \$148,264,000 and STTR \$20,851,000 (SC only)
- FY 2020 Enacted: SBIR \$159,140,000 and STTR \$22,279,000 (SC only)
- FY 2021 Request: SBIR \$139,901,000 and STTR \$19,390,000 (SC only)