

**Science Crosscuts
Facilities Maintenance and Repair**

The Department's Facilities Maintenance and Repair activities are tied to its programmatic missions, goals, and objectives. The Facilities Maintenance and Repair activities funded by the budget and displayed below and are intended to ensure that the scientific community has the facilities required to conduct cutting edge scientific research now and in the future to meet Department of Energy (DOE) goals and objectives.

Costs for Direct-Funded Maintenance and Repair (including Deferred Maintenance Reduction) (\$K)

	FY 2017 Planned Cost	FY 2017 Actual Cost	FY 2018 Planned Cost	FY 2019 Planned Cost
Argonne National Laboratory	0	0	11,900	4,000
Brookhaven National Laboratory	5,791	5,511	5,908	4,272
Lawrence Berkeley National Laboratory	9,000	2,001	18,500	12,950
Notre Dame Radiation Laboratory	175	120	175	125
Oak Ridge National Laboratory	14,853	13,700	15,298	15,260
Oak Ridge Office	9,079	4,059	6,324	4,223
Office of Scientific and Technical Information	402	366	412	381
SLAC National Accelerator Laboratory	3,740	2,742	4,878	4,761
Thomas Jefferson National Accelerator Facility	73	223	75	232
Total, Direct-Funded Maintenance and Repair	43,113	28,722	63,470	46,204

General purpose infrastructure includes multiprogram research laboratories, administrative and support buildings, as well as cafeterias, power plants, fire stations, utilities, roads, and other structures. Together, the Office of Science (SC) laboratories have over 1,400 operational buildings and real property trailers, with nearly 20 million gross square feet of space.

Generally, facilities maintenance and repair expenses are funded through an indirect overhead charge. In some cases, however, a laboratory may charge maintenance directly to a specific program. One example would be when maintenance is performed in a building used only by a single program. Such direct-funded charges are not directly budgeted.

Costs for Indirect-Funded Maintenance and Repair (including Deferred Maintenance Reduction) (\$K)

	FY 2017 Planned Cost	FY 2017 Actual Cost	FY 2018 Planned Cost	FY 2019 Planned Cost
Ames Laboratory	2,600	2,248	2,900	2,600
Argonne National Laboratory	57,200	57,825	59,500	70,950
Brookhaven National Laboratory	44,971	33,663	45,918	37,146
Fermi National Accelerator Laboratory	19,126	16,556	19,238	20,801
Lawrence Berkeley National Laboratory	27,860	29,431	28,103	29,318
Lawrence Livermore National Laboratory	2,926	2,926	2,984	3,044
Los Alamos National Laboratory	623	623	635	648
Oak Ridge Institute for Science and Education	489	567	490	499
Oak Ridge National Laboratory and Y-12	62,376	65,940	64,202	79,260
Pacific Northwest National Laboratory	6,805	8,134	8,137	8,635
Princeton Plasma Physics Laboratory	8,000	6,016	8,200	6,577
Sandia National Laboratories	2,998	2,998	3,058	3,119
SLAC National Accelerator Laboratory	10,120	11,947	10,835	15,809
Thomas Jefferson National Accelerator Facility	6,360	5,165	6,550	5,374
Total, Indirect-Funded Maintenance and Repair	252,454	244,039	260,750	283,780

Facilities maintenance and repair activities funded indirectly through overhead charges at SC laboratories are displayed. Since this funding is allocated to all work done at each laboratory, the cost of these activities charged to funding from SC

and other DOE organizations, as well as other Federal agencies and other entities doing work at SC laboratories. Maintenance reported to SC for non-SC laboratories is also shown. The figures are total projected expenditures across all SC laboratories.

Report on FY 2017 Expenditures for Maintenance and Repair

This report responds to the requirements established in Conference Report (H.Rep. 108-10) accompanying Public Law 108-7 (pages 886-887), which requires the Department of Energy to provide an annual year-end report on maintenance expenditures to the Committees on Appropriations. This report compares the actual maintenance expenditures in FY 2017 to the amount planned for FY 2017, including Congressionally directed changes.

**Science
Total Costs for Maintenance and Repair (\$K)**

	FY 2017 Planned Costs	FY 2017 Actual Costs
Ames Laboratory	2,600	2,248
Argonne National Laboratory	57,200	57,825
Brookhaven National Laboratory	50,762	39,174
Fermi National Accelerator Laboratory	19,126	16,556
Lawrence Berkeley National Laboratory	36,860	31,432
Lawrence Livermore National Laboratory	2,926	2,926
Los Alamos National Laboratory	623	623
Notre Dame Radiation Laboratory	175	120
Oak Ridge Institute for Science and Education	489	567
Oak Ridge National Laboratory and Y-12	77,229	79,640
Oak Ridge Office	9,079	4,059
Office of Scientific and Technical Information	402	366
Pacific Northwest National Laboratory	6,805	8,134
Princeton Plasma Physics Laboratory	8,000	6,016
Sandia National Laboratories	2,998	2,998
SLAC National Accelerator Laboratory	13,860	14,689
Thomas Jefferson National Accelerator Facility	6,433	5,388
Total, Maintenance and Repair	295,567	272,761

**Science
Research and Development (\$K)**

	FY 2017 Enacted	FY 2018 Annualized CR^a	FY 2019 Request	FY 2019 Request vs FY 2017 Enacted
Basic	4,429,054	4,459,276	4,301,848	-127,206
Applied	0	0	0	0
Subtotal, R&D	4,429,054	4,459,276	4,301,848	-127,206
Equipment	186,796	141,029	171,937	-14,859
Construction	726,624	707,184	861,212	+134,588
Total, R&D	5,342,474	5,307,489	5,334,997	-7,477

^a A full-year 2018 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Continuing Appropriations Act, 2018 (Division D of P.L. 115-56, as amended). The amounts included for 2018 reflect the annualized level provided by the continuing resolution. (These amounts are shown only at the Congressional control level and above; below that level, a dash (—) is shown).

Science
Small Business Innovative Research/Small Business Technology Transfer (SBIR/STTR) (\$K)

	FY 2017 Enacted	FY 2018 Annualized CR ^a	FY 2019 Request	FY 2019 Request vs FY 2017 Enacted
Office of Science				
Advanced Scientific Computing Research				
SBIR	19,675	—	21,162	+1,487
STTR	2,766	—	2,976	+210
Basic Energy Sciences				
SBIR	51,189	—	51,175	-14
STTR	7,198	—	7,196	-2
Biological and Environmental Research				
SBIR	19,440	—	15,313	-4,127
STTR	2,734	—	2,153	-581
Fusion Energy Sciences				
SBIR	8,814	—	8,323	-491
STTR	1,239	—	1,170	-69
High Energy Physics				
SBIR	19,532	—	16,363	-3,169
STTR	2,747	—	2,301	-446
Nuclear Physics				
SBIR	15,366	—	15,747	+381
STTR	2,161	—	2,300	+139
Total, Office of Science SBIR	134,016	—	128,083	-5,933
Total, Office of Science STTR	18,845	—	18,096	-749
Other DOE ^b	TBD	—	TBD	TBD
Total, DOE SBIR	134,016	—	128,083	-5,933
Total, DOE STTR	18,845	—	18,096	-749

^aA full-year 2018 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Continuing Appropriations Act, 2018 (Division D of P.L. 115-56, as amended). The amounts included for 2018 reflect the annualized level provided by the continuing resolution. (These amounts are shown only at the Congressional control level and above; below that level, a dash (—) is shown).

^b The other DOE programs SBIR/STTR funding amounts are listed in the other DOE budget volumes.

**Science
Safeguards and Security Crosscut (\$K)**

	FY 2017 Enacted	FY 2018 Annualized CR ^a	FY 2019 Request	FY 2019 Request vs FY 2017 Enacted
Protective Forces	39,638	—	41,559	+1,921
Security Systems	10,357	—	10,370	+13
Information Security	4,467	—	4,356	-111
Cyber Security ^b	33,236	—	35,332	+2,096
Personnel Security	6,086	—	5,444	-642
Material Control and Accountability	2,458	—	2,431	-27
Program Management	6,758	—	6,618	-140
Total, Safeguards and Security	103,000	102,301	106,110	+3,110

^aA full-year 2018 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Continuing Appropriations Act, 2018 (Division D of P.L. 115-56, as amended). The amounts included for 2018 reflect the annualized level provided by the continuing resolution. (These amounts are shown only at the Congressional control level and above; below that level, a dash (—) is shown).

^b The Cyber Security amount includes \$6,039,000 in FY 2017 and \$6,435,000 in FY 2019 for CyberOne through the Working Capital Fund (WCF).