

Department Of Energy  
 FY 2019 Congressional Budget  
 Laboratory Table  
 (Dollars In Thousands)

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Lawrence Livermore National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
<b>Electricity Delivery and Energy Reliability</b>			
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$2,178	\$1,725	\$1,156
Resilient Distribution Systems	\$1,913	\$1,466	\$0
Cybersecurity for Energy Delivery Systems	\$4,075	\$1,900	\$0
Energy Storage	\$386	\$0	\$0
Transformer Resilience and Advanced Components	\$219	\$0	\$0
Infrastructure Security & Energy Restoration	\$200	\$200	\$0
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<i>Total Electricity Delivery and Energy Reliability</i>	\$8,971	\$5,291	\$1,156
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<i>Total Electricity Delivery and Energy Reliability</i>	\$8,971	\$5,291	\$1,156
<b>Cybersecurity, Energy Security, and Emergency Resp</b>			
Cybersecurity, Energy Security, and Emergency Resp			
Infrastructure Security and Energy Restoration (ISER)	\$0	\$0	\$500
CEDS	\$0	\$0	\$1,900
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<i>Total Cybersecurity, Energy Security, and Emergency Resp</i>	\$0	\$0	\$2,400
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<i>Total Cybersecurity, Energy Security, and Emergency Resp</i>	\$0	\$0	\$2,400
<b>Nuclear Energy</b>			
Fuel Cycle R & D			
Fuel Cycle R & D	\$651	\$992	\$142
Nuclear Energy Enabling Technologies			
Nuclear Energy Enabling Technologies	\$850	\$475	\$475
Reactors Concepts RD&D			
Reactors Concepts RD&D	\$50	\$58	\$50
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<i>Total Nuclear Energy</i>	\$1,551	\$1,525	\$667
<b>Energy Efficiency and Renewable Energy</b>			
Energy Efficiency and Renewable Energy			
Wind Energy	\$902	\$902	\$615
Geothermal Technologies	\$1,180	\$1,180	\$165
Hydrogen & Fuel Cell Technologies	\$2,585	\$1,412	\$2,162
Solar Energy	\$1,789	\$0	\$0
Vehicle Technologies	\$3,974	\$3,974	\$1,430
Building Technologies	\$108	\$107	\$23
Advanced Manufacturing	\$5,829	\$5,829	\$6,000
Bioenergy Technologies	\$963	\$963	\$0
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<i>Total Energy Efficiency and Renewable Energy</i>	\$17,330	\$14,367	\$10,395
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<i>Total Energy Efficiency and Renewable Energy</i>	\$17,330	\$14,367	\$10,395
<b>Science</b>			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$3,171	\$5,249	\$4,445
Basic Energy Sciences			
Basic Energy Sciences	\$2,094	\$926	\$926

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Biological and Environmental Research			
Biological and Environmental Research	\$26,968	\$23,214	\$14,733
Fusion Energy Sciences			
Fusion Energy Sciences	\$6,800	\$8,222	\$7,734
High Energy Physics			
High Energy Physics	\$1,150	\$3,440	\$1,205
Nuclear Physics			
Nuclear Physics	\$1,687	\$843	\$1,453
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$414	\$0	\$0
<i>Total Science</i>	\$42,284	\$41,894	\$30,496
<b>Weapons Activities</b>			
Directed Stockpile Work			
Directed Stockpile Work	\$219,434	\$217,944	\$351,459
Science			
Science Campaign	\$126,394	\$125,536	\$147,207
Engineering			
Engineering Campaign	\$22,812	\$22,657	\$41,523
Inertial Confinement Fusion Ignition High Yield			
Inertial Confinement Fusion Ignition High Yield Campaign	\$330,383	\$328,139	\$286,931
Advanced Simulation & Computing			
Advanced Simulation & Computing Campaign	\$272,571	\$270,720	\$205,295
Defense Nuclear Security			
Defense Nuclear Security	\$53,583	\$53,219	\$66,389
Information technology and Cybersecurity			
Information technology and Cybersecurity	\$16,616	\$16,503	\$14,122
Infrastructure and Operations			
Infrastructure and Operations	\$214,094	\$212,640	\$189,715
Advanced Manufacturing Development			
Advanced Manufacturing Development	\$6,599	\$6,554	\$10,900
<i>Total Weapons Activities</i>	\$1,262,486	\$1,253,912	\$1,313,541
<b>Other Defense Activities</b>			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$3,050	\$3,050	\$3,050
<i>Total Other Defense Activities</i>	\$3,050	\$3,050	\$3,050
<b>Defense Nuclear Nonproliferation</b>			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$46,596	\$46,280	\$50,531
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$44,230	\$43,930	\$44,000
Global Material Security			
Global Material Security	\$7,556	\$7,505	\$6,756
Nonproliferation and Arms Control			
Nonproliferation and Arms Control	\$16,173	\$16,063	\$16,757

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<i>Total Defense Nuclear Nonproliferation</i>	\$114,555	\$113,778	\$118,044
Fossil Energy Research and Development			
CCS and Power Systems			
Carbon Capture	\$2,983	\$2,963	\$0
Advanced Energy Systems	\$149	\$148	\$0
Cross Cutting Research	\$300	\$298	\$0
<i>Total CCS and Power Systems</i>	\$3,432	\$3,409	\$0
Advanced Coal Energy Systems and CCUS			
Carbon Capture Utilization and Storage	\$0	\$0	\$1,450
<i>Total Fossil Energy Research and Development</i>	\$3,432	\$3,409	\$1,450
Defense Environmental Cleanup			
NNSA Sites			
NNSA Sites	\$1,147	\$1,140	\$1,175
<i>Total Defense Environmental Cleanup</i>	\$1,147	\$1,140	\$1,175
<i>Total Lawrence Livermore National Laboratory</i>	\$1,454,806	\$1,438,366	\$1,482,374