

TABLE 45

**Federal obligations for applied research in engineering, by agency and detailed field: FY 2020**

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies	10,324,132.3	1,023,122.7	901,007.3	694,144.3	459,381.4	675,279.7	407,276.7	423,415.0	5,740,505.1
Departments									
Department of Agriculture	61,953.6	0.0	0.0	50.0	0.0	0.0	0.0	0.0	61,903.6
Agricultural Research Service	5,124.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,124.7
Forest Service	4,757.8	0.0	0.0	50.0	0.0	0.0	0.0	0.0	4,707.8
National Institute of Food and Agriculture	52,071.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52,071.1
Department of Commerce	238,464.0	0.0	0.0	199.6	54,482.8	101,243.8	2,727.3	42,253.2	37,557.3
National Institute of Standards and Technology	221,454.0	0.0	0.0	199.6	48,885.8	89,830.8	2,727.3	42,253.2	37,557.3
National Oceanic and Atmospheric Administration	9,318.0	0.0	0.0	0.0	5,597.0	3,721.0	0.0	0.0	0.0
National Telecommunications and Information Administration	7,692.0	0.0	0.0	0.0	0.0	7,692.0	0.0	0.0	0.0
Department of Defense	2,236,322.4	418,234.1	212,348.5	100,937.7	15,890.3	421,998.3	311,970.4	151,355.2	603,587.8
Defense Advanced Research Projects Agency	432,621.5	52,546.7	117.7	36,073.5	0.0	89,556.4	5,445.8	29,912.5	218,968.8
Defense Health Agency	2,050.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,050.3
Department of the Air Force	625,439.3	247,085.0	191,606.5	0.0	6,575.0	136,776.5	27,491.9	230.0	15,674.5
Department of the Army	630,480.1	80,472.5	18,009.1	58,564.6	9,315.3	43,367.1	222,231.4	50,411.5	148,108.7
Department of the Navy	460,232.2	35,844.8	0.0	0.0	0.0	124,281.0	44,629.1	67,809.0	187,668.3
Other defense agencies	85,499.0	2,285.2	2,615.1	6,299.7	0.0	28,017.3	12,172.2	2,992.3	31,117.3
Department of Energy	3,130,609.7	0.0	50.0	531,569.4	6,965.3	92,968.2	33,961.6	174,075.4	2,291,019.9
Advanced Research Projects Agency—Energy	116,395.2	0.0	0.0	47,653.3	0.0	14,536.8	25,160.5	21,034.2	8,010.3
Electricity Delivery and Energy Reliability	65,313.5	0.0	0.0	0.0	0.0	65,313.5	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	1,248,343.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,248,343.0
Fossil Energy	481,865.8	0.0	0.0	477,992.2	3,873.6	0.0	0.0	0.0	0.0
National Nuclear Security Administration	730,710.7	0.0	50.0	108.0	0.0	262.5	0.0	128,880.9	601,409.3
Defense Programs	715,094.3	0.0	0.0	0.0	0.0	0.0	0.0	127,533.3	587,561.0



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Environmental Protection Agency	58,423.4	0.0	0.0	21,242.7	2,452.2	0.0	697.6	528.5	33,502.4
Federal Communications Commission	1,050.0	0.0	0.0	0.0	0.0	1,050.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,085,963.7	591,635.9	688,608.8	0.0	0.0	0.0	0.0	0.0	805,718.9
National Science Foundation	329,306.8	0.0	0.0	14,136.4	955.0	21,955.1	13,737.1	612.6	277,910.5
Nuclear Regulatory Commission	66,399.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66,399.3
Tennessee Valley Authority	6,444.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,444.9
U.S. Postal Service	18,234.2	0.0	0.0	0.0	0.0	10,028.8	8,205.4	0.0	0.0

**Note(s):**

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FYs 2020 obligations include additional funding provided by supplemental COVID-19 related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). See technical table A-2 for additional notes associated with the agencies listed in this table.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2020–21.