

TABLE 21

## Federal obligations for 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	13,222,044.8	1,093,479.7	915,907.0	788,211.4	475,684.1	880,629.5	522,834.4	704,470.0	7,840,828.8
Departments									
Department of Agriculture	117,701.9	0.0	0.0	93.0	0.0	0.0	0.0	0.0	117,608.9
Agricultural Research Service	11,530.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,530.6
Forest Service	8,621.2	0.0	0.0	93.0	0.0	0.0	0.0	0.0	8,528.2
National Institute of Food and Agriculture	97,550.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97,550.2
Department of Commerce	264,582.4	140.0	0.0	223.6	54,482.8	108,755.5	2,751.8	56,354.0	41,874.7
National Institute of Standards and Technology	247,572.4	140.0	0.0	223.6	48,885.8	97,342.5	2,751.8	56,354.0	41,874.7
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	2,825,723.9	487,506.2	227,248.2	118,333.9	28,373.0	503,881.6	367,015.1	229,790.2	863,575.8
Defense Advanced Research Projects Agency	466,983.9	52,546.7	117.7	36,073.5	0.0	95,099.2	5,445.8	32,525.5	245,175.6
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	896,035.4	284,446.4	197,848.2	5,838.4	6,586.9	154,474.3	47,145.2	8,695.6	191,000.5
Department of the Army	672,190.2	84,469.5	18,009.1	58,564.6	10,064.7	49,731.0	235,325.9	66,864.1	149,161.2
Department of the Navy	584,635.5	51,563.3	0.0	730.9	0.0	151,935.4	47,807.0	103,180.7	229,418.3
Other defense agencies	203,828.7	14,480.4	11,273.2	17,126.6	11,721.4	52,641.8	31,291.2	18,524.3	46,770.0
Department of Energy	3,181,435.0	0.0	50.0	544,673.4	6,965.3	108,720.1	39,667.3	184,036.2	2,297,322.6
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	78,351.6	0.0	0.0	0.0	0.0	78,351.6	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	733,047.4	0.0	50.0	252.0	0.0	367.5	0.0	130,228.5	602,149.3
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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Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
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	1,167,363.2	0.0	0.0	77,636.2	4,775.1	122,158.0	68,519.8	168,616.5	725,657.5
Nuclear Regulatory Commission	67,399.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67,399.3
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.