

TABLE 8

Preliminary federal obligations for research and experimental development, by agency and performer: FY 2021

(Dollars in millions)

Agency	Total R&D	Intramural ^a	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
All agencies	179,465.2	64,209.1	52,019.1	4,564.1	37,749.6	5,236.7	10,469.1	3,792.0	669.5	755.9
Departments										
Department of Agriculture	2,738.0	1,827.9	4.6	0.0	844.6	0.0	48.4	0.0	8.5	4.0
Agricultural Marketing Service	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,587.0	1,455.3	0.0	0.0	117.4	0.0	10.7	0.0	0.2	3.3
Animal and Plant Health Inspection Service	41.9	29.8	0.0	0.0	12.2	0.0	0.0	0.0	0.0	0.0
Economic Research Service	87.0	79.9	1.8	0.0	4.1	0.0	1.2	0.0	*	0.0
Forest Service	264.9	227.9	1.4	0.0	25.0	0.0	4.1	0.0	5.9	0.6
National Agricultural Statistics Service	9.5	8.8	0.0	0.0	0.1	0.0	0.6	0.0	0.0	0.0
National Institute of Food and Agriculture	737.9	19.3	1.5	0.0	683.0	0.0	31.7	0.0	2.4	0.0
Rural Business-Cooperative Service	2.8	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0
Department of Commerce	1,884.1	1,298.3	50.5	0.0	374.4	13.8	117.9	21.2	2.3	5.9
National Institute of Standards and Technology	966.4	711.0	36.4	0.0	130.9	0.0	60.9	21.2	0.1	5.9
National Oceanic and Atmospheric Administration	786.1	455.6	14.0	0.0	243.5	13.8	57.1	0.0	2.1	*
National Telecommunications and Information Administration	11.2	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	120.5	120.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	69,297.4	23,153.3	37,261.3	517.8	4,898.3	366.9	1,774.0	978.7	9.2	338.0
Defense Advanced Research Projects Agency	3,608.2	312.9	2,346.0	37.6	641.0	38.6	158.8	33.2	0.3	39.7
Defense Health Agency	2,718.0	715.9	454.0	0.0	806.7	0.0	692.7	4.2	0.3	44.2
Department of the Air Force	11,429.3	4,668.2	5,817.1	222.9	541.0	23.2	9.0	124.5	0.8	22.6
Department of the Army	12,222.1	3,916.8	6,500.8	2.6	1,151.9	27.9	290.2	260.4	0.0	71.6
Department of the Navy	18,803.4	7,463.8	9,731.8	36.1	1,042.9	36.5	319.5	110.3	0.7	61.8
U.S. Space Force	5,038.9	217.9	4,526.5	5.1	14.5	34.8	9.2	209.7	6.0	15.3
Other defense agencies	15,477.5	5,857.8	7,885.1	213.5	700.2	206.0	294.8	236.3	1.0	82.8
Department of Education	379.2	11.3	30.7	0.0	219.1	0.0	78.0	0.0	40.0	0.0
Department of Energy	15,070.0	1,784.8	3,701.8	3,159.8	1,265.4	2,543.5	64.0	2,494.9	55.7	0.1

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Advanced Research Projects Agency--Energy	427.0	0.0	161.2	17.9	177.0	15.6	26.2	29.2	0.0	0.0
Electricity Delivery and Energy Reliability	133.8	3.1	8.8	31.2	15.9	13.4	9.3	51.7	0.4	0.0
Energy Efficiency and Renewable Energy	1,976.6	0.0	608.8	132.1	491.1	161.1	0.0	559.3	24.3	0.0
Environmental Management	29.3	0.0	8.1	6.2	12.1	1.5	0.0	1.3	0.0	0.0
Fossil Energy	685.0	514.0	0.0	18.8	124.2	11.0	0.0	16.9	0.0	0.0
National Nuclear Security Administration	5,914.3	675.3	2,571.7	2,542.4	10.1	16.2	1.9	96.7	0.0	0.1
Defense Programs	4,109.9	623.1	1,152.2	2,331.8	0.0	0.1	1.3	1.3	0.0	0.0
Naval Nuclear Propulsion Program	1,443.4	51.9	1,390.5	0.9	0.0	0.0	0.0	0.1	0.0	0.0
Office of Defense Nuclear Nonproliferation	361.0	0.3	28.9	209.7	10.1	16.1	0.6	95.3	0.0	0.1
Nuclear Energy	517.6	0.3	195.5	173.1	48.9	28.7	0.0	71.2	0.0	0.0
Office of Cybersecurity, Energy Security, and Emergency Response	51.1	5.5	18.0	0.0	17.6	0.0	10.0	0.0	0.0	0.0
Office of Science	5,335.3	586.5	129.7	238.2	368.7	2,296.0	16.6	1,668.7	31.1	0.0
Department of Health and Human Services	68,834.2	30,267.9	6,180.3	843.2	23,530.9	19.9	7,283.7	35.0	385.4	287.8
Administration for Children and Families	3.1	*	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
Administration for Community Living	91.9	0.0	3.0	0.0	69.1	0.0	19.4	0.0	0.5	0.0
Agency for Healthcare Research and Quality	308.1	48.3	131.5	0.0	98.7	0.0	29.6	0.0	0.1	0.0
Agency for Toxic Substances and Disease Registry	9.6	0.0	0.0	0.0	2.1	0.0	0.5	0.0	7.0	0.0
Biomedical Advanced Research and Development Authority	25,378.6	21,092.1	3,887.7	0.0	387.3	0.0	11.5	0.0	0.0	0.0
Centers for Disease Control and Prevention	543.1	119.7	64.5	0.0	203.7	0.0	67.1	0.0	47.9	40.3
Centers for Medicare and Medicaid Services	228.0	0.0	0.0	0.0	14.7	0.0	0.0	0.0	213.3	0.0
Food and Drug Administration	495.0	356.0	11.1	0.0	80.2	0.0	42.0	0.0	2.0	3.6

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Employee Benefits Security Administration	2.3	1.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	43.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	1,151.8	258.3	398.0	0.0	231.9	1.6	46.6	91.6	122.7	1.1
Federal Aviation Administration	536.4	110.8	194.8	0.0	112.3	0.0	29.7	88.9	0.0	0.0
Federal Highway Administration	376.6	70.7	101.8	0.0	76.7	1.6	11.4	0.6	113.8	0.0
Federal Motor Carrier Safety Administration	11.4	3.3	4.8	0.0	2.2	0.0	0.1	1.0	0.0	0.0
Federal Railroad Administration	47.4	15.1	22.3	0.0	6.6	0.0	2.3	0.0	0.0	1.1
Federal Transit Administration	54.0	0.0	22.2	0.0	19.8	0.0	3.1	0.0	9.0	0.0
National Highway Traffic Safety Administration	66.0	10.0	40.6	0.0	14.2	0.0	0.0	1.0	0.0	0.0
Office of the Secretary of Transportation	41.0	41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	19.0	7.5	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	63.4	2.0	36.4	0.1	0.0	0.0	0.0	8.4	0.0	16.6
Bureau of Engraving and Printing	63.3	2.0	36.4	0.0	0.0	0.0	0.0	8.4	0.0	16.6
U.S. Mint	0.1	*	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	1,689.4	1,621.1	0.0	0.0	0.0	0.0	0.0	68.3	0.0	0.0
Other agencies										
Administrative Office of the U.S. Courts	6.4	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0
Agency for International Development	194.3	19.7	22.4	0.0	51.0	0.0	50.1	0.0	0.0	51.1
Appalachian Regional Commission	*	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0
Consumer Product Safety Commission	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	521.8	262.4	204.7	0.0	54.7	0.0	0.0	0.0	0.0	0.0
Federal Communications Commission	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	7.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	8,799.4	2,413.6	3,258.6	10.5	802.8	2,022.3	229.1	32.2	3.0	27.3

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National Science Foundation	6,405.6	9.4	462.9	0.0	5,282.3	264.5	347.6	4.8	14.9	19.2
Nuclear Regulatory Commission	76.3	31.6	8.4	12.0	7.0	3.2	0.6	13.1	0.0	0.4
Patient-Centered Outcomes Research Trust Fund	390.9	0.0	0.0	0.0	0.0	0.0	390.9	0.0	0.0	0.0
RESTORE Act Centers of Excellence Research Grants Program	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0
Smithsonian Institution	213.6	213.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	129.4	68.7	47.3	0.0	10.2	0.0	3.1	0.0	0.0	0.0
Tennessee Valley Authority	11.1	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Agency for Global Media	4.8	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Postal Service	19.0	0.0	17.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0

* = amount greater than \$0 but less than \$50,000.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural R&D programs and extramural R&D procurements by federal personnel as well as actual intramural performance.**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. Federal intramural amounts for the Biomedical Advanced Research and Development Authority are transfers to the other agencies in support of Operation Warp Speed. FYs 2021 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.