

TABLE 86

Federal obligations for research and experimental development to foreign performers, by region, country, or economy, and agency: FY 2020

(Dollars in thousands)

Region, country, or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All areas and organizations	1,393,321.4	8,469.1	965,298.2	329.5	288,877.1	29,360.6	19,076.6	5,067.2	76,843.1
Africa	101,484.8	0.0	5,279.4	0.0	96,145.5	0.0	0.0	60.0	0.0
Botswana	1,693.4	0.0	10.0	0.0	1,683.4	0.0	0.0	0.0	0.0
Burkina Faso	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
Cameroon	135.0	0.0	0.0	0.0	135.0	0.0	0.0	0.0	0.0
Congo, Democratic Republic of the	735.0	0.0	0.0	0.0	735.0	0.0	0.0	0.0	0.0
Ethiopia	633.4	0.0	0.0	0.0	633.4	0.0	0.0	0.0	0.0
Gambia, The	107.3	0.0	0.0	0.0	107.3	0.0	0.0	0.0	0.0
Ghana	5,065.4	0.0	0.0	0.0	5,065.4	0.0	0.0	0.0	0.0
Kenya	8,280.1	0.0	4,898.1	0.0	3,332.0	0.0	0.0	50.0	0.0
Madagascar	135.0	0.0	0.0	0.0	135.0	0.0	0.0	0.0	0.0
Malawi	925.6	0.0	0.0	0.0	925.6	0.0	0.0	0.0	0.0
Mali	1,934.1	0.0	0.0	0.0	1,934.1	0.0	0.0	0.0	0.0
Mozambique	1,736.2	0.0	0.0	0.0	1,736.2	0.0	0.0	0.0	0.0
Nigeria	6,671.9	0.0	0.0	0.0	6,671.9	0.0	0.0	0.0	0.0
Rwanda	471.5	0.0	0.0	0.0	471.5	0.0	0.0	0.0	0.0
Senegal	950.0	0.0	0.0	0.0	950.0	0.0	0.0	0.0	0.0
South Africa	56,842.9	0.0	371.3	0.0	56,461.6	0.0	0.0	10.0	0.0
Tanzania	1,108.2	0.0	0.0	0.0	1,108.2	0.0	0.0	0.0	0.0
Uganda	11,728.9	0.0	0.0	0.0	11,728.9	0.0	0.0	0.0	0.0
Zambia	1,507.4	0.0	0.0	0.0	1,507.4	0.0	0.0	0.0	0.0
Zimbabwe	723.8	0.0	0.0	0.0	723.8	0.0	0.0	0.0	0.0
Asia	654,984.6	0.0	628,601.6	0.0	25,163.8	10.9	69.0	745.2	394.0
Bangladesh	3,487.1	0.0	58.4	0.0	3,428.7	0.0	0.0	0.0	0.0
Brunei	141.5	0.0	141.5	0.0	0.0	0.0	0.0	0.0	0.0
Cambodia	500.0	0.0	500.0	0.0	0.0	0.0	0.0	0.0	0.0
China	1,830.0	0.0	0.0	0.0	1,710.8	0.0	0.0	119.1	0.0
Georgia	1,170.2	0.0	565.2	0.0	605.1	0.0	0.0	0.0	0.0
Hong Kong	2,904.7	0.0	0.0	0.0	2,900.0	0.0	0.0	0.0	4.7
India	4,541.1	0.0	615.4	0.0	3,925.7	0.0	0.0	0.0	0.0
Indonesia	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
Israel	608,658.5	0.0	606,667.5	0.0	1,432.8	8.4	69.0	480.8	0.0
Japan	3,607.8	0.0	3,321.3	0.0	286.5	0.0	0.0	0.0	0.0
Korea, South	6,141.6	0.0	6,119.8	0.0	0.0	0.0	0.0	21.8	0.0
Lebanon	840.4	0.0	0.0	0.0	451.1	0.0	0.0	0.0	389.3
Malaysia	58.2	0.0	58.2	0.0	0.0	0.0	0.0	0.0	0.0
Mongolia	19.6	0.0	0.0	0.0	0.0	0.0	0.0	19.6	0.0
Nepal	279.0	0.0	0.0	0.0	276.5	2.5	0.0	0.0	0.0
Pakistan	370.1	0.0	0.0	0.0	370.1	0.0	0.0	0.0	0.0
Philippines	1,669.0	0.0	1,669.0	0.0	0.0	0.0	0.0	0.0	0.0
Saudi Arabia	118.9	0.0	118.9	0.0	0.0	0.0	0.0	0.0	0.0
Singapore	1,447.5	0.0	1,447.5	0.0	0.0	0.0	0.0	0.0	0.0
Sri Lanka	388.1	0.0	0.0	0.0	388.1	0.0	0.0	0.0	0.0
Taiwan	1,915.8	0.0	624.0	0.0	1,255.9	0.0	0.0	35.9	0.0
Thailand	11,365.9	0.0	4,678.2	0.0	6,687.7	0.0	0.0	0.0	0.0
Turkey	335.3	0.0	335.3	0.0	0.0	0.0	0.0	0.0	0.0
Vietnam	1,327.4	0.0	189.5	0.0	1,069.9	0.0	0.0	68.1	0.0
Asian countries, other	1,767.0	0.0	1,492.0	0.0	275.0	0.0	0.0	0.0	0.0
Europe	329,073.0	2,006.3	204,048.0	329.5	68,065.1	26,811.4	6,641.6	1,499.7	19,671.5

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Austria	3,533.0	158.7	577.3	0.0	215.1	69.0	2,512.9	0.0	0.0
Belgium	1,249.5	0.0	595.2	0.0	568.5	85.8	0.0	0.0	0.0
Croatia	906.1	0.0	906.1	0.0	0.0	0.0	0.0	0.0	0.0
Czechia	953.2	0.0	953.2	0.0	0.0	0.0	0.0	0.0	0.0
Denmark	2,374.8	0.0	1,285.4	0.0	1,082.7	0.4	0.0	0.0	6.2
Estonia	159.5	0.0	159.5	0.0	0.0	0.0	0.0	0.0	0.0
Finland	1,838.6	0.0	746.3	0.0	786.9	102.0	0.0	203.4	0.0
France	16,436.1	5.4	6,304.4	127.0	7,493.3	909.0	1,550.0	0.0	46.9
Germany	33,559.3	1,834.3	3,480.8	0.0	18,395.6	3,719.1	2,168.0	461.5	3,500.0
Greece	341.7	0.0	335.7	0.0	0.0	0.0	0.0	6.0	0.0
Hungary	32.0	0.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0
Iceland	458.0	0.0	458.0	0.0	0.0	0.0	0.0	0.0	0.0
Ireland	686.4	0.0	378.7	0.0	307.7	0.0	0.0	0.0	0.0
Italy	10,111.9	0.0	7,378.7	0.0	2,093.4	0.0	0.0	440.0	199.8
Luxembourg	63.1	0.0	63.1	0.0	0.0	0.0	0.0	0.0	0.0
Netherlands	12,354.8	0.0	2,890.5	143.2	7,761.9	1,339.3	100.0	0.0	120.0
Norway	109,908.0	0.0	108,182.0	0.0	0.0	1,715.5	0.0	0.0	10.6
Poland	106.2	0.0	106.2	0.0	0.0	0.0	0.0	0.0	0.0
Portugal	89.5	0.0	89.5	0.0	0.0	0.0	0.0	0.0	0.0
Russia	14,024.0	0.0	0.3	0.0	0.0	14,023.7	0.0	0.0	0.0
Slovakia	97.0	0.0	97.0	0.0	0.0	0.0	0.0	0.0	0.0
Slovenia	302.7	0.0	302.7	0.0	0.0	0.0	0.0	0.0	0.0
Spain	10,572.7	0.0	2,115.6	0.0	322.4	4,174.0	0.0	138.2	3,822.4
Sweden	4,327.5	0.0	1,156.2	0.0	3,090.9	24.2	27.0	29.3	0.0
Switzerland	23,473.4	0.0	3,962.2	36.0	7,516.3	258.8	0.0	0.0	11,700.0
Ukraine	560.7	0.0	114.1	0.0	446.6	0.0	0.0	0.0	0.0
United Kingdom	80,553.2	7.9	61,377.4	23.3	17,983.7	390.5	283.7	221.3	265.5
North America	163,344.6	6,282.4	81,776.4	0.0	56,232.5	1,587.3	11,426.1	689.3	5,350.6
Bahamas, The	11,898.4	0.0	11,898.4	0.0	0.0	0.0	0.0	0.0	0.0
Bermuda	10,179.1	0.0	0.0	0.0	0.0	0.0	10,179.1	0.0	0.0
Canada	131,593.5	6,282.4	67,272.8	0.0	49,426.9	1,587.3	1,247.0	426.5	5,350.6
Costa Rica	962.7	0.0	49.6	0.0	778.6	0.0	0.0	134.5	0.0
Guatemala	1,784.7	0.0	0.0	0.0	1,784.7	0.0	0.0	0.0	0.0
Haiti	2,104.8	0.0	0.0	0.0	2,104.8	0.0	0.0	0.0	0.0
Jamaica	111.2	0.0	0.0	0.0	111.2	0.0	0.0	0.0	0.0
Mexico	2,893.1	0.0	1,941.9	0.0	893.0	0.0	0.0	58.1	0.0
Nicaragua	210.5	0.0	0.0	0.0	210.5	0.0	0.0	0.0	0.0
Panama	180.1	0.0	0.0	0.0	110.0	0.0	0.0	70.1	0.0
Saint Kitts and Nevis	218.9	0.0	0.0	0.0	218.9	0.0	0.0	0.0	0.0
Trinidad and Tobago	593.9	0.0	0.0	0.0	593.9	0.0	0.0	0.0	0.0
Virgin Islands, British	306.5	0.0	306.5	0.0	0.0	0.0	0.0	0.0	0.0
North American countries, other	307.2	0.0	307.2	0.0	0.0	0.0	0.0	0.0	0.0
Oceania	70,003.7	180.4	41,917.0	0.0	26,505.5	475.2	169.0	756.5	0.0
Australia	53,054.3	0.0	28,856.9	0.0	23,217.8	163.5	169.0	647.0	0.0
Fiji	24.7	0.0	24.7	0.0	0.0	0.0	0.0	0.0	0.0
Marshall Islands	12,007.3	0.0	12,007.3	0.0	0.0	0.0	0.0	0.0	0.0
Micronesia, Federated States of	3.7	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
New Zealand	4,804.3	180.4	1,024.5	0.0	3,287.7	311.6	0.0	0.0	0.0
Palau	109.5	0.0	0.0	0.0	0.0	0.0	0.0	109.5	0.0

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South America	23,003.7	0.0	3,675.8	0.0	16,764.7	475.8	770.9	1,316.5	0.0
Argentina	2,363.7	0.0	272.9	0.0	1,384.6	0.0	0.0	706.2	0.0
Bolivia	45.2	0.0	45.2	0.0	0.0	0.0	0.0	0.0	0.0
Brazil	5,916.8	0.0	1,229.2	0.0	3,913.0	314.8	0.0	459.8	0.0
Chile	2,627.3	0.0	1,690.8	0.0	914.4	0.0	0.0	22.0	0.0
Colombia	2,189.4	0.0	83.6	0.0	2,010.8	0.0	0.0	95.0	0.0
Ecuador	64.2	0.0	30.7	0.0	0.0	0.0	0.0	33.5	0.0
Peru	8,784.8	0.0	282.0	0.0	8,341.8	161.0	0.0	0.0	0.0
Suriname	226.3	0.0	26.3	0.0	200.0	0.0	0.0	0.0	0.0
Uruguay	785.9	0.0	15.0	0.0	0.0	0.0	770.9	0.0	0.0
International organizations	51,427.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51,427.0

DHS = Department of Homeland Security; DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

^a Includes data for the Departments of Commerce, the Interior, Transportation, and the Treasury; the Agency for International Development; the Nuclear Regulatory Commission; and the Social Security Administration.

Note(s):

Because of rounding, detail may not add to total. Only those countries 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.