

TABLE 87

Federal obligations for basic research to foreign performers, by region, country, or economy, and agency: FY 2019

(Dollars in thousands)

Region, country, or economy	Total	DOC	DOD	DOE	HHS	NASA	NSF	USDA
All areas and organizations	249,523.2	302.6	83,802.9	1,236.2	123,026.4	14,974.7	24,688.8	1,491.7
Africa	41,717.6	0.0	87.5	0.0	41,576.8	0.8	0.0	52.5
Botswana	570.0	0.0	0.0	0.0	570.0	0.0	0.0	0.0
Congo, Democratic Republic of the	69.5	0.0	0.0	0.0	69.5	0.0	0.0	0.0
Côte d'Ivoire	16.8	0.0	0.0	0.0	0.0	0.0	0.0	16.8
Eritrea	115.9	0.0	0.0	0.0	115.9	0.0	0.0	0.0
Ethiopia	711.3	0.0	0.0	0.0	711.3	0.0	0.0	0.0
Gambia, The	53.3	0.0	0.0	0.0	53.3	0.0	0.0	0.0
Ghana	2,053.7	0.0	0.0	0.0	2,053.7	0.0	0.0	0.0
Kenya	1,821.0	0.0	76.0	0.0	1,718.0	0.0	0.0	27.0
Madagascar	69.3	0.0	0.0	0.0	69.3	0.0	0.0	0.0
Malawi	384.4	0.0	0.0	0.0	384.4	0.0	0.0	0.0
Mali	1,255.8	0.0	0.0	0.0	1,255.8	0.0	0.0	0.0
Mozambique	732.3	0.0	0.0	0.0	732.3	0.0	0.0	0.0
Namibia	16.4	0.0	0.0	0.0	15.6	0.8	0.0	0.0
Nigeria	3,377.2	0.0	0.0	0.0	3,377.2	0.0	0.0	0.0
Rwanda	368.7	0.0	0.0	0.0	368.7	0.0	0.0	0.0
South Africa	23,073.8	0.0	11.5	0.0	23,053.5	0.0	0.0	8.8
Tanzania	993.0	0.0	0.0	0.0	993.0	0.0	0.0	0.0
Uganda	4,530.0	0.0	0.0	0.0	4,530.0	0.0	0.0	0.0
Zambia	743.6	0.0	0.0	0.0	743.6	0.0	0.0	0.0
Zimbabwe	761.6	0.0	0.0	0.0	761.6	0.0	0.0	0.0
Asia	19,351.0	4.6	12,357.8	268.5	6,189.1	229.6	0.0	301.3
Bangladesh	1,210.1	0.0	0.0	0.0	1,210.1	0.0	0.0	0.0
China	529.7	0.0	0.0	0.0	485.2	0.0	0.0	44.6
Cyprus	212.0	0.0	212.0	0.0	0.0	0.0	0.0	0.0
Georgia	98.9	0.0	0.0	0.0	98.9	0.0	0.0	0.0
Hong Kong	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
India	1,785.1	0.0	847.9	0.0	937.3	0.0	0.0	0.0
Israel	3,296.3	0.0	2,090.3	268.5	496.7	200.3	0.0	240.4
Japan	3,253.2	0.0	3,104.2	0.0	149.0	*	0.0	0.0
Korea, South	1,045.2	0.0	1,005.9	0.0	27.8	0.0	0.0	11.5
Lebanon	78.9	0.0	0.0	0.0	78.9	0.0	0.0	0.0
Malaysia	249.1	0.0	179.4	0.0	69.7	0.0	0.0	0.0
Nepal	101.1	0.0	0.0	0.0	101.1	0.0	0.0	0.0
Pakistan	75.9	0.0	0.0	0.0	75.9	0.0	0.0	0.0
Philippines	329.1	0.0	329.1	0.0	0.0	0.0	0.0	0.0
Saudi Arabia	103.3	0.0	98.5	0.0	0.0	0.0	0.0	4.8
Singapore	938.2	0.0	908.9	0.0	0.0	29.3	0.0	0.0
Sri Lanka	203.3	0.0	0.0	0.0	203.3	0.0	0.0	0.0
Taiwan	723.8	0.0	723.8	0.0	0.0	0.0	0.0	0.0
Thailand	2,711.1	0.0	768.9	0.0	1,942.2	0.0	0.0	0.0
Turkey	228.0	0.0	228.0	0.0	0.0	0.0	0.0	0.0
Vietnam	520.2	0.0	207.1	0.0	313.1	0.0	0.0	0.0
Asian countries, other	1,653.9	0.0	1,653.9	0.0	0.0	0.0	0.0	0.0
Europe	105,662.3	298.0	43,852.7	548.2	32,061.6	13,359.0	15,188.9	353.9
Austria	5,530.5	0.0	1,798.1	0.0	0.0	1,219.5	2,512.9	0.0
Belgium	3,186.5	0.0	534.9	0.0	146.2	2,505.5	0.0	0.0
Croatia	76.3	0.0	76.3	0.0	0.0	0.0	0.0	0.0
Czechia	393.7	0.0	392.4	0.0	0.0	1.3	0.0	0.0

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(Dollars in thousands)

Region, country, or economy	Total	DOC	DOD	DOE	HHS	NASA	NSF	USDA
Denmark	1,990.8	0.0	667.4	0.0	330.7	992.7	0.0	0.0
Estonia	145.6	0.0	145.6	0.0	0.0	0.0	0.0	0.0
Finland	564.5	0.0	120.9	0.0	443.6	0.0	0.0	0.0
France	14,689.7	48.0	9,075.6	0.0	4,008.0	5.0	1,487.9	65.2
Germany	20,719.0	0.0	3,048.6	0.0	8,902.0	807.7	7,900.0	60.8
Greece	413.3	0.0	413.3	0.0	0.0	0.0	0.0	0.0
Hungary	180.8	0.0	180.8	0.0	0.0	0.0	0.0	0.0
Ireland	656.7	0.0	383.9	0.0	206.8	66.0	0.0	0.0
Italy	2,552.2	0.0	1,880.4	0.0	579.3	0.0	0.0	92.5
Luxembourg	326.2	0.0	326.2	0.0	0.0	0.0	0.0	0.0
Netherlands	4,474.7	250.0	1,349.9	0.0	2,497.9	277.0	100.0	0.0
Norway	3,565.6	0.0	291.9	0.0	0.0	3,273.7	0.0	0.0
Poland	354.3	0.0	354.3	0.0	0.0	0.0	0.0	0.0
Romania	60.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0
Serbia	66.1	0.0	66.1	0.0	0.0	0.0	0.0	0.0
Slovenia	265.9	0.0	265.9	0.0	0.0	0.0	0.0	0.0
Spain	5,232.8	0.0	1,147.6	0.0	69.5	3,955.2	0.0	60.5
Sweden	4,504.2	0.0	527.2	0.0	1,038.9	*	2,938.0	0.0
Switzerland	5,752.8	0.0	1,984.6	0.0	3,681.7	76.5	0.0	10.0
Ukraine	387.6	0.0	153.7	0.0	233.9	0.0	0.0	0.0
United Kingdom	29,024.3	0.0	18,607.1	0.0	9,923.0	179.1	250.1	65.0
European countries, other	548.2	0.0	0.0	548.2	0.0	0.0	0.0	0.0
North America	48,928.6	0.0	13,266.0	419.5	25,678.6	329.8	9,055.9	178.8
Bahamas, The	19.6	0.0	19.6	0.0	0.0	0.0	0.0	0.0
Bermuda	6,949.9	0.0	0.0	0.0	0.0	0.0	6,949.9	0.0
Canada	32,859.8	0.0	9,197.2	419.5	21,049.2	225.0	1,906.0	63.1
Costa Rica	3,495.5	0.0	0.0	0.0	3,432.0	14.4	0.0	49.2
Greenland	90.4	0.0	0.0	0.0	0.0	90.4	0.0	0.0
Guatemala	158.7	0.0	0.0	0.0	158.7	0.0	0.0	0.0
Haiti	970.0	0.0	0.0	0.0	970.0	0.0	0.0	0.0
Mexico	4,268.8	0.0	4,039.7	0.0	0.0	0.0	200.0	29.1
Nicaragua	68.8	0.0	0.0	0.0	68.8	0.0	0.0	0.0
Panama	37.6	0.0	0.0	0.0	0.0	0.0	0.0	37.6
Virgin Islands, British	9.5	0.0	9.5	0.0	0.0	0.0	0.0	0.0
Oceania	20,975.9	0.0	10,664.7	0.0	9,182.4	870.2	0.0	258.5
Australia	17,843.5	0.0	9,818.8	0.0	7,255.4	510.8	0.0	258.5
Fiji	43.5	0.0	43.5	0.0	0.0	0.0	0.0	0.0
New Zealand	3,088.8	0.0	802.3	0.0	1,927.1	359.4	0.0	0.0
South America	12,067.5	0.0	2,753.8	0.0	8,337.9	185.3	443.9	346.6
Argentina	1,579.5	0.0	116.8	0.0	1,152.1	0.0	0.0	310.6
Brazil	3,390.0	0.0	969.0	0.0	2,324.3	81.7	0.0	15.0
Chile	1,981.5	0.0	1,504.4	0.0	396.6	80.6	0.0	0.0
Colombia	523.5	0.0	42.0	0.0	481.5	0.0	0.0	0.0
Paraguay	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Peru	3,985.0	0.0	121.6	0.0	3,820.3	23.1	0.0	20.0
Suriname	163.1	0.0	0.0	0.0	163.1	0.0	0.0	0.0
Uruguay	443.9	0.0	0.0	0.0	0.0	0.0	443.9	0.0
International organizations	820.4	0.0	820.4	0.0	0.0	0.0	0.0	0.0

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

DOC = Department of Commerce; 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.

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. 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 2019–20.