

TABLE 55

Federal obligations for research and experimental development to non-U.S. performers, by region, country, or economy, and agency: FY 2023

(Dollars in thousands)

Region, country, or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All areas and organizations	777,852	5,963	280,295	2,508	343,938	27,704	16,561	11,803	89,080
Africa	106,398	0	2,711	81	101,881	11	0	1,515	200
Botswana	1,287	0	150	0	1,137	0	0	0	0
Cameroon	2,135	0	200	0	1,935	0	0	0	0
Congo, Democratic Republic of the	1,327	0	0	0	1,327	0	0	0	0
Ethiopia	298	0	0	0	298	0	0	0	0
Gambia, The	113	0	0	0	113	0	0	0	0
Ghana	3,750	0	160	81	3,309	0	0	0	200
Kenya	9,652	0	1,977	0	7,275	0	0	400	0
Liberia	500	0	0	0	0	0	0	500	0
Malawi	1,179	0	0	0	1,179	0	0	0	0
Mali	2,243	0	0	0	2,243	0	0	0	0
Mozambique	932	0	0	0	932	0	0	0	0
Nigeria	8,246	0	83	0	7,662	0	0	500	0
Rwanda	503	0	0	0	503	0	0	0	0
Sao Tome and Principe	11	0	0	0	0	11	0	0	0
South Africa	47,426	0	141	0	47,235	0	0	50	0
Tanzania	3,260	0	0	0	3,260	0	0	0	0
Tunisia	147	0	0	0	147	0	0	0	0
Uganda	18,673	0	0	0	18,673	0	0	0	0
Zambia	2,983	0	0	0	2,983	0	0	0	0
Zimbabwe	1,735	0	0	0	1,670	0	0	65	0
Asia	115,233	0	70,388	2	41,091	118	0	2,901	735
Armenia	22	0	22	0	0	0	0	0	0
Bangladesh	4,056	0	0	0	4,056	0	0	0	0
Cambodia	1,276	0	67	0	1,209	0	0	0	0
China	569	0	0	0	569	0	0	0	0
Georgia	1,797	0	696	0	395	0	0	0	705
Hong Kong	188	0	0	0	188	0	0	0	0
India	2,867	0	751	2	2,115	0	0	0	0
Indonesia	385	0	13	0	373	0	0	0	0
Israel	74,753	0	51,683	0	20,790	0	0	2,281	0
Japan	2,249	0	2,190	0	0	50	0	0	9
Jordan	289	0	0	0	289	0	0	0	0
Korea, South	6,489	0	6,324	0	0	0	0	166	0
Lebanon	1,283	0	0	0	1,283	0	0	0	0

TABLE 55

Federal obligations for research and experimental development to non-U.S. performers, by region, country, or economy, and agency: FY 2023

(Dollars in thousands)

Region, country, or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Malaysia	1,978	0	1,515	0	381	0	0	82	0
Mongolia	701	0	411	0	289	0	0	0	0
Nepal	347	0	197	0	0	0	0	150	0
Pakistan	1,510	0	0	0	1,510	0	0	0	0
Philippines	101	0	96	0	0	0	0	0	5
Singapore	346	0	346	0	0	0	0	0	0
Sri Lanka	109	0	109	0	0	0	0	0	0
Taiwan	3,337	0	1,327	0	1,942	68	0	0	0
Thailand	8,718	0	3,688	0	5,031	0	0	0	0
Turkey	578	0	563	0	0	0	0	0	15
United Arab Emirates	70	0	70	0	0	0	0	0	0
Vietnam	1,214	0	321	0	670	0	0	222	0
Europe	223,060	4,581	86,789	2,245	96,694	11,895	1,665	2,258	16,933
Austria	5,870	189	1,486	0	3,990	0	0	19	186
Belgium	2,055	0	412	0	1,643	0	0	0	0
Croatia	594	0	594	0	0	0	0	0	0
Czechia	1,046	0	1,011	0	0	0	0	0	35
Denmark	1,934	0	919	0	835	173	0	0	6
Estonia	1,317	0	1,317	0	0	0	0	0	0
Finland	2,840	0	2,840	0	0	0	0	0	0
France	19,378	0	6,982	1,410	8,812	242	0	0	1,931
Germany	36,343	0	5,960	18	13,706	5,195	1,350	511	9,602
Greece	155	0	115	0	0	0	0	0	39
Hungary	249	0	249	0	0	0	0	0	0
Iceland	140	0	140	0	0	0	0	0	0
Ireland	3,485	0	3,384	0	71	30	0	0	0
Italy	7,074	0	5,091	0	620	900	0	462	0
Lithuania	225	0	225	0	0	0	0	0	0
Netherlands	18,919	0	9,839	167	7,976	232	0	500	206
Norway	6,095	0	4,211	0	0	1,884	0	0	0
Poland	607	0	607	0	0	0	0	0	0
Portugal	299	0	297	0	0	0	0	0	2
Slovakia	64	0	46	0	0	17	0	0	0
Slovenia	150	0	150	0	0	0	0	0	0
Spain	3,389	0	2,540	0	308	3	0	538	0
Sweden	3,718	0	1,558	48	2,012	101	0	0	0

TABLE 55

Federal obligations for research and experimental development to non-U.S. performers, by region, country, or economy, and agency: FY 2023

(Dollars in thousands)

Region, country, or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Switzerland	28,328	0	5,715	365	15,017	2,532	0	0	4,699
Ukraine	253	0	132	0	89	0	0	32	0
United Kingdom	78,527	4,392	30,962	237	41,616	585	315	196	225
European countries, other	5	0	5	0	0	0	0	0	0
North America	143,182	200	47,648	0	61,313	12,742	11,751	1,399	8,130
Bahamas, The	12,115	0	12,115	0	0	0	0	0	0
Bermuda	10,950	0	2,093	0	0	32	8,826	0	0
Canada	102,699	200	32,181	0	45,751	12,686	2,926	835	8,121
Costa Rica	9,340	0	110	0	8,930	20	0	280	0
Greenland	1	0	0	0	0	1	0	0	0
Guatemala	1,641	0	0	0	1,641	0	0	0	0
Haiti	2,551	0	0	0	2,551	0	0	0	0
Jamaica	120	0	0	0	120	0	0	0	0
Mexico	2,112	0	1,149	0	888	3	0	63	9
Panama	211	0	0	0	0	0	0	211	0
Saint Kitts and Nevis	54	0	0	0	54	0	0	0	0
Trinidad and Tobago	1,388	0	0	0	1,378	0	0	10	0
Oceania	79,731	1,182	49,548	180	24,591	1,216	0	2,978	35
Australia	72,564	782	47,152	180	22,983	520	0	911	35
Micronesia, Federated States of	2,016	0	0	0	0	0	0	2,016	0
New Zealand	5,118	400	2,389	0	1,608	696	0	25	0
Palau	27	0	0	0	0	0	0	27	0
Oceanic countries, other	7	0	7	0	0	0	0	0	0
South America	22,186	0	3,875	0	15,833	1,722	0	753	3
Argentina	2,398	0	33	0	1,796	0	0	569	0
Brazil	7,024	0	1,702	0	3,751	1,521	0	47	3
Chile	1,989	0	1,934	0	0	0	0	55	0
Colombia	1,318	0	48	0	1,270	0	0	0	0
Ecuador	129	0	0	0	129	0	0	0	0
Paraguay	50	0	0	0	0	0	0	50	0
Peru	9,218	0	98	0	8,886	201	0	33	0
Uruguay	60	0	60	0	0	0	0	0	0
International organizations	88,062	0	19,337	0	2,535	0	3,145	0	63,045

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 Other includes data for the Departments of Commerce, the Interior, Transportation, and the Treasury; the Agency for Global Media; the Agency for International Development; the Environmental Protection Agency; and the Nuclear Regulatory Commission.

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 2023–24.