

TABLE 55

Federal obligations for research and experimental development to non-U.S. performers, by region, country, or economy, and agency: FY 2022

(Dollars in thousands)

Region, country, or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All areas and organizations	817,506	3,298	239,565	2,693	416,052	26,123	21,568	6,420	101,788
Africa	97,738	0	4,717	0	89,873	*	0	458	2,691
Botswana	908	0	0	0	908	0	0	0	0
Cameroon	1,432	0	0	0	1,432	0	0	0	0
Congo, Democratic Republic of the	875	0	0	0	875	0	0	0	0
Ethiopia	946	0	0	0	946	0	0	0	0
Gambia, The	111	0	0	0	111	0	0	0	0
Ghana	2,240	0	0	0	2,040	0	0	0	200
Kenya	13,448	0	3,802	0	6,701	0	0	454	2,491
Malawi	1,186	0	0	0	1,186	0	0	0	0
Mali	2,030	0	0	0	2,030	0	0	0	0
Mozambique	1,563	0	0	0	1,563	0	0	0	0
Nigeria	8,153	0	268	0	7,885	0	0	0	0
Rwanda	76	0	0	0	76	0	0	0	0
Saint Helena	*	0	0	0	0	*	0	0	0
Senegal	*	0	0	0	*	0	0	0	0
South Africa	42,485	0	547	0	41,938	0	0	0	0
Tanzania	2,143	0	0	0	2,140	0	0	3	0
Uganda	15,941	0	0	0	15,941	0	0	0	0
Zambia	2,295	0	0	0	2,295	0	0	0	0
Zimbabwe	1,804	0	0	0	1,804	0	0	0	0
African countries, other	100	0	100	0	0	0	0	0	0
Asia	95,851	834	60,738	2	31,894	22	0	1,741	620
Armenia	166	0	166	0	0	0	0	0	0
Bangladesh	7,214	0	0	0	7,214	0	0	0	0
Brunei	41	0	41	0	0	0	0	0	0
Cambodia	41	0	41	0	0	0	0	0	0
China	1,427	0	0	0	1,337	0	0	89	0
Georgia	1,386	0	991	0	395	0	0	0	0
India	1,239	0	710	2	528	*	0	0	0
Indonesia	1,053	0	3	0	550	0	0	0	500
Israel	60,312	834	47,964	0	10,132	0	0	1,381	0
Japan	626	0	601	0	0	5	0	0	20
Jordan	289	0	0	0	289	0	0	0	0
Kazakhstan	1,537	0	1,537	0	0	0	0	0	0
Korea, South	832	0	600	0	54	0	0	178	0
Laos	4	0	0	0	4	0	0	0	0
Lebanon	549	0	0	0	549	0	0	0	0
Malaysia	134	0	0	0	134	0	0	0	0
Mongolia	791	0	502	0	289	0	0	0	0
Nepal	100	0	0	0	0	0	0	0	100
Oman	56	0	56	0	0	0	0	0	0
Pakistan	1,532	0	0	0	1,532	0	0	0	0
Philippines	256	0	256	0	0	0	0	0	0
Saudi Arabia	20	0	20	0	0	0	0	0	0
Singapore	975	0	975	0	0	0	0	0	0
Taiwan	2,596	0	425	0	2,114	17	0	40	0
Thailand	11,841	0	5,790	0	6,050	0	0	0	0
United Arab Emirates	50	0	50	0	0	0	0	0	0
Vietnam	785	0	10	0	722	0	0	53	0

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Europe	308,232	500	78,178	2,169	183,222	17,997	1,930	1,645	22,592
Austria	3,098	0	560	0	1,899	10	69	0	560
Belgium	858	0	26	0	832	0	0	0	0
Croatia	361	0	361	0	0	0	0	0	0
Czechia	336	0	336	0	0	0	0	0	0
Denmark	4,035	0	2,303	0	1,684	42	0	0	6
Estonia	756	0	756	0	0	0	0	0	0
Finland	3,638	0	3,053	0	585	0	0	0	0
France	113,374	0	3,701	1,386	101,423	2,917	0	14	3,933
Germany	32,342	0	6,888	10	16,584	1,058	1,369	260	6,174
Greece	18	0	*	0	0	0	0	18	0
Iceland	742	0	38	0	704	0	0	0	0
Ireland	4,108	0	2,933	0	1,149	26	0	0	0
Italy	11,098	0	9,850	0	790	0	0	298	160
Macedonia	60	0	60	0	0	0	0	0	0
Netherlands	14,856	0	5,639	159	7,485	432	0	20	1,120
Norway	4,611	0	2,160	0	0	2,449	0	0	2
Poland	292	0	116	0	0	135	0	16	25
Portugal	206	0	206	0	0	0	0	0	0
Russia	9,061	0	0	0	0	9,061	0	0	0
Slovakia	34	0	34	0	0	0	0	0	0
Slovenia	193	0	190	0	0	3	0	0	0
Spain	4,502	0	2,143	0	592	188	0	590	989
Sweden	3,935	0	1,353	0	2,494	18	69	0	0
Switzerland	31,172	0	5,812	316	15,600	1,068	0	0	8,376
Ukraine	531	0	0	0	531	0	0	0	0
United Kingdom	54,776	500	20,420	297	30,870	590	423	429	1,247
European countries, other	9,241	0	9,241	0	0	0	0	0	0
North America	145,309	1,761	48,469	336	70,273	5,182	10,363	1,106	7,820
Bahamas, The	12,329	0	12,329	0	0	0	0	0	0
Bermuda	8,376	0	0	0	0	31	8,345	0	0
Canada	106,326	1,761	35,141	336	53,909	5,151	2,018	462	7,548
Costa Rica	9,987	0	100	0	9,587	0	0	300	0
Guatemala	1,854	0	0	0	1,854	0	0	0	0
Haiti	2,306	0	0	0	2,306	0	0	0	0
Jamaica	117	0	0	0	117	0	0	0	0
Mexico	1,653	0	527	0	891	0	0	235	0
Panama	179	0	0	0	179	0	0	0	0
Saint Kitts and Nevis	51	0	0	0	51	0	0	0	0
Trinidad and Tobago	1,488	0	0	0	1,379	0	0	109	0
Turks and Caicos Islands	272	0	0	0	0	0	0	0	272
North American countries, other	371	0	371	0	0	0	0	0	0
Oceania	68,111	203	39,968	186	24,699	2,069	100	754	131
Australia	65,058	203	39,277	186	22,928	1,774	100	544	45
French Polynesia	263	0	0	0	0	263	0	0	0
Micronesia, Federated States of	135	0	0	0	0	0	0	135	0
New Zealand	2,605	0	691	0	1,771	32	0	25	85
Palau	50	0	0	0	0	0	0	50	0
South America	19,694	0	1,516	0	15,109	852	0	716	1,500
Argentina	2,300	0	43	0	1,679	0	0	578	0

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Brazil	4,831	0	313	0	3,948	521	0	50	0
Chile	1,756	0	1,055	0	563	138	0	0	0
Colombia	2,108	0	0	0	2,083	0	0	25	0
Peru	8,593	0	0	0	6,837	194	0	63	1,500
Suriname	106	0	106	0	0	0	0	0	0
International organizations	82,571	0	5,979	0	981	0	9,175	0	66,435

* = amount greater than \$0 but less than \$500.

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. FY 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-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 2022–23.