

TABLE 55

Federal obligations for research and experimental development to non-U.S. performers, by region, country, or economy, and agency: FY 2021

(Dollars in thousands)

Region, country, or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All areas and organizations	753,246	7,286	296,339	1,865	310,745	61,782	19,627	6,781	48,822
Africa	135,251	0	29,951	0	104,300	0	0	550	450
Benin	454	0	0	0	454	0	0	0	0
Botswana	1,670	0	0	0	1,670	0	0	0	0
Burkina Faso	*	0	0	0	*	0	0	0	0
Cameroon	29,926	0	28,492	0	1,433	0	0	0	0
Congo, Democratic Republic of the	417	0	0	0	417	0	0	0	0
Côte d'Ivoire	*	0	0	0	0	0	0	*	0
Egypt	*	0	0	0	*	0	0	0	0
Ethiopia	552	0	189	0	363	0	0	0	0
Gambia, The	112	0	0	0	112	0	0	0	0
Ghana	5,437	0	0	0	5,237	0	0	0	200
Kenya	10,506	0	994	0	8,996	0	0	266	250
Liberia	244	0	0	0	244	0	0	0	0
Madagascar	135	0	0	0	135	0	0	0	0
Malawi	1,220	0	0	0	1,220	0	0	0	0
Mali	3,141	0	0	0	3,141	0	0	0	0
Mozambique	1,660	0	0	0	1,660	0	0	0	0
Nigeria	10,069	0	0	0	10,069	0	0	0	0
Rwanda	338	0	0	0	338	0	0	0	0
Senegal	790	0	0	0	790	0	0	0	0
South Africa	49,261	0	249	0	48,758	0	0	254	0
Swaziland	*	0	*	0	0	0	0	0	0
Tanzania	2,207	0	0	0	2,207	0	0	0	0
Uganda	12,860	0	*	0	12,837	0	0	0	0
Zambia	2,473	0	0	0	2,473	0	0	0	0
Zimbabwe	1,690	0	0	0	1,690	0	0	0	0
Asia	103,617	2,119	71,010	*	26,580	2,503	*	589	780
Bangladesh	2,779	0	63	0	2,716	0	0	0	0
Brunei	*	0	*	0	0	0	0	0	0
Cambodia	334	0	334	0	0	0	0	0	0
China	2,809	0	0	0	2,701	0	0	109	0
Georgia	2,305	0	520	0	1,785	0	0	0	0
India	2,316	0	*	*	2,089	0	0	0	200
Indonesia	61	0	*	0	*	0	0	0	0
Israel	62,834	2,119	58,755	0	1,445	0	*	481	0
Japan	1,718	0	1,583	0	135	0	0	0	0
Korea, South	1,272	0	1,272	0	0	0	0	0	0
Lebanon	835	0	0	0	835	0	0	0	0
Malaysia	758	0	543	0	136	0	0	0	80
Nepal	650	0	0	0	150	0	0	0	500
Oman	2,611	0	111	0	0	2,500	0	0	0
Pakistan	789	0	0	0	789	0	0	0	0
Saudi Arabia	78	0	78	0	0	0	0	0	0
Singapore	2,193	0	2,193	0	0	0	0	0	0
Sri Lanka	477	0	93	0	384	0	0	0	0
Taiwan	2,696	0	1,180	0	1,513	*	0	0	0
Thailand	14,171	0	3,554	0	10,617	0	0	0	0
Turkey	509	0	509	0	0	0	0	0	0
United Arab Emirates	140	0	140	0	0	0	0	0	0

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Vietnam	1,268	0	*	0	1,251	0	0	0	0
Europe	233,985	1,381	72,535	1,662	86,420	51,528	2,004	1,992	16,461
Austria	1,395	0	0	0	1,245	0	150	0	0
Belgium	4,041	0	3,730	0	311	*	0	0	0
Croatia	899	0	899	0	0	0	0	0	0
Czechia	778	0	678	0	0	0	0	0	100
Denmark	3,513	0	989	0	2,393	125	0	0	*
Estonia	637	0	637	0	0	0	0	0	0
Finland	3,107	0	2,000	0	1,104	*	0	0	0
France	15,569	*	3,012	372	9,848	1,072	0	867	395
Germany	34,596	0	5,269	*	16,094	4,530	1,369	*	7,319
Greece	282	0	76	0	0	0	0	0	206
Hungary	184	0	184	0	0	0	0	0	0
Iceland	815	0	102	0	713	0	0	0	0
Ireland	1,787	0	1,610	0	158	*	0	0	0
Italy	15,416	0	2,626	0	12,194	0	0	330	267
Luxembourg	106	0	106	0	0	0	0	0	0
Netherlands	31,209	0	4,338	164	4,510	21,414	50	202	530
Norway	883	0	871	*	0	*	0	0	*
Poland	1,170	0	1,170	0	0	0	0	0	0
Portugal	238	0	*	0	0	*	150	0	0
Russia	16,845	0	0	0	0	16,845	0	0	0
Slovakia	170	0	170	0	0	0	0	0	0
Slovenia	323	0	296	0	0	*	0	0	0
Spain	2,299	0	1,362	0	121	495	0	290	*
Sweden	6,226	0	903	60	5,088	98	0	0	76
Switzerland	29,895	0	4,026	433	15,443	5,263	0	*	4,725
Ukraine	707	0	65	0	621	0	0	*	0
United Kingdom	60,896	1,378	37,366	630	16,578	1,599	285	264	2,796
North America	111,777	3,227	32,824	*	50,324	3,633	12,320	1,697	7,750
Bahamas, The	11,843	0	11,843	0	0	0	0	0	0
Bermuda	10,612	0	53	0	0	227	10,332	0	0
Canada	77,002	3,227	20,914	*	38,861	3,406	1,989	854	7,750
Costa Rica	1,804	0	0	0	1,247	0	0	557	0
Guatemala	6,233	0	0	0	6,233	0	0	0	0
Haiti	2,158	0	0	0	2,158	0	0	0	0
Jamaica	114	0	0	0	114	0	0	0	0
Mexico	964	0	*	0	729	0	0	220	0
Nicaragua	134	0	0	0	134	0	0	0	0
Panama	143	0	0	0	78	0	0	66	0
Saint Kitts and Nevis	177	0	0	0	177	0	0	0	0
Trinidad and Tobago	594	0	0	0	594	0	0	0	0
Oceania	67,673	559	38,521	200	23,482	3,687	274	785	165
Australia	58,553	0	33,785	200	20,943	2,814	100	547	165
Marshall Islands	4,216	0	4,216	0	0	0	0	0	0
Micronesia, Federated States of	168	0	0	0	0	0	0	168	0
New Zealand	4,665	559	520	0	2,539	873	174	0	0
Palau	70	0	0	0	0	0	0	70	0
South America	25,193	0	4,593	0	19,003	430	0	1,167	0
Argentina	2,090	0	0	0	1,349	0	0	741	0

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Brazil	7,431	0	1,477	0	5,295	276	0	383	0
Chile	4,078	0	3,023	0	1,032	0	0	*	0
Colombia	3,096	0	59	0	3,017	0	0	*	0
Ecuador	*	0	*	0	0	0	0	0	0
Paraguay	*	0	*	0	0	0	0	0	0
Peru	8,464	0	0	0	8,311	154	0	0	0
International organizations	75,750	0	46,905	0	635	0	4,994	0	23,216

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

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 2021 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 2020–21.