

TABLE 24

Companies that performed foreign R&D, domestic and foreign R&D paid for by the company and others and performed by the company, by type of R&D and selected industry: 2021

(Millions of U.S. dollars)

Industry	NAICS code	Total	Paid for by the company	Paid for by others	Research (basic and applied)			Development			
					Total	Paid for by the company	Paid for by others	Total	Paid for by the company	Paid for by others	
Total domestic R&D performance											
All industries	21-23, 31-33, 42-81	447,889	408,637	39,253	81,778	72,211	9,566	366,112	336,426	29,686	i
Manufacturing industries	31-33	241,611	221,707	19,904	52,061	49,035	3,026	189,551	172,673	16,878	
Chemicals	325	70,881	67,369	3,512	24,777	24,010	767	46,104	43,360	2,745	
Pharmaceuticals and medicines	3254	64,473	61,427	3,046	22,710	22,221	488	41,763	39,206	2,557	
Other chemicals	other 325	6,408	5,942	466	2,067	1,788	278	4,341	4,154	188	
Computer and electronic products	334	92,533	87,707	4,825	12,156	11,289	867	80,377	76,418	3,959	
Semiconductor and other electronic components	3344	44,110	43,533	577	4,263	4,163	100	39,847	39,370	477	i
Other computer and electronic products	other 334	48,423	44,175	4,249	7,893	7,126	767	40,530	37,049	3,481	
Nonmanufacturing industries	21-23, 42-81	206,278	186,929	19,349	29,717	23,177	6,540	176,561	163,753	12,808	i
Information	51	128,547	128,006	541	9,619	9,608	11	118,928	118,398	530	
Software publishers	5112	34,285	33,756	529	2,435	2,423 - 2,435	0 - 12	31,850	31,320 - 31,334	517 - 530	
Other information	other 51	94,263	94,250	12	7,185	7,173 - 7,185	0 - 12	87,078	87,065 - 87,078	0 - 13	i
Professional, scientific, and technical services	54	34,619	15,888	18,730	11,924	5,403	6,521	22,695	10,485	12,210	i
Scientific research and development services	5417	19,068	1,001	18,067	6,461	367	6,095	12,607	635	11,972	i
Other professional, scientific, and technical services	other 54	15,551	14,887	663	5,463	5,037	426	10,088	9,851	237	
Total foreign R&D performance											
All industries	21-23, 31-33, 42-81	135,412	120,270	15,142	24,477	19,940	4,537	110,936	100,330	10,605	i
Manufacturing industries	31-33	78,389	76,683	1,706	14,143	13,865	279	64,245	62,818	1,427	
Chemicals	325	23,741	23,419	322	5,980	5,875	105	17,761	17,544	217	
Pharmaceuticals and medicines	3254	20,936	20,656	280	5,171	5,099	73	15,765	15,558	207	
Other chemicals	other 325	2,805	2,763	42	809	777	32	1,996	1,986	10	
Computer and electronic products	334	31,535	31,264	271	4,028	3,993	36	27,506	27,271	235	
Semiconductor and other electronic components	3344	16,521	16,384	137	2,265	2,262	4	14,256	14,122	134	i
Other computer and electronic products	other 334	15,014	14,880	133	1,763	1,731	32	13,250	13,149	101	
Nonmanufacturing industries	21-23, 42-81	57,024	43,588	13,436	10,333	6,075	4,258	46,690	37,512	9,178	i
Information	51	29,258	29,210	48	2,835	2,831	5	26,423	26,380	43	
Software publishers	5112	9,933	9,908	25	1,028	1,028	0	8,904	8,880	25	
Other information	other 51	19,325	19,302	23	1,807	1,802	5	17,519	17,500	19	
Professional, scientific, and technical services	54	18,763	5,423	13,340	5,004	787	4,217	13,759	4,636	9,123	i
Scientific research and development services	5417	13,630	353	13,277	4,232	36	4,196	9,398	317	9,081	i
Other professional, scientific, and technical services	other 54	5,133	5,070	63	773	751	22	4,361	4,319	42	

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D and are not comparable with estimates published for years prior to 2018. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2021.