

TABLE 40

Domestic R&D paid for by sources located outside the United States and performed by the company, by source of funds, industry, and company size: 2020

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Foreign companies			Foreign government agencies	Foreign universities, colleges, and academic researchers	All other
			Subsidiaries ^a	Company's parent	Unaffiliated companies			
All industries	21-23, 31-33, 42-81	47,052	27,038	17,784	2,070	128	2	30
Manufacturing industries	31-33	34,929	18,984	14,162	1,636	127	*	21
Food	311	773 i	552 i	205	14	0	0	2 i
Beverage and tobacco products	312	152	31	121	0	0	0	0
Textile, apparel, and leather products	313-16	1	1	0	*	0	0	0
Wood products	321	3	0	3	0	0	0	0
Paper	322	1	*	1	0	0	0	0
Printing and related support activities	323	*	*	0	0	0	0	0
Petroleum and coal products	324	68 - 275	0 - 172	0 - 120	0	0	0	0 - 8
Chemicals	325	11,511	3,595	7,045	861	0 - 4	*	4 - 12
Basic chemicals	3251	162	5	157	1	0	*	0
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	66	0	66	*	0	0	0
Pesticide, fertilizer, and other agricultural chemicals	3253	284 - 291	0	284 - 291	0	0	0	0
Pharmaceuticals and medicines	3254	10,781	3,572	6,342	856	0 - 4	*	4 - 12
Soap, cleaning compound, and toilet preparation	3256	203	17	187	0	0	0	0
Paint, coating, adhesive, and other chemicals	3255, 3259	5 - 15	1	0 - 11	4	0	*	i 0
Plastics and rubber products	326	41	35	5	1	0	0	0
Nonmetallic mineral products	327	96	1	95	*	i 0	0	0
Primary metals	331	14	1	*	12	0	0	0
Fabricated metal products	332	12	4	7	2	0	0	0
Machinery	333	861	37	684	141	0	0	0
Agricultural implement	33311	14 - 62	5 - 11	0 - 57	0 - 57	0	0	0
Semiconductor machinery	333242	685	0	606	79	0	0	0
Engine, turbine, and power transmission equipment	3336	10	0	10	0	0	0	0
Other machinery	other 333	102 - 153	26 - 32	10 - 70	4 - 63	0	0	0
Computer and electronic products	334	16,582	13,594	2,727	227	29	*	6
Communications equipment	3342	125 - 10,885 i	0 - 10,756 i	116	7	0	0	4
Semiconductor and other electronic components	3344	3,605	1,367	2,068	169	0	*	2
Navigational, measuring, electromedical, and control instruments	3345	657 - 5,306	84 - 4,730	503	43	29	0	0

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Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	305	81	224	*	0	0	0
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	238	4	160 - 235	0 - 44	0 - 30	0	0
Other measuring and controlling device	other 3345	113 - 4,762	0 - 4,644	43 - 120	0 - 44	0 - 30	0	0
Other computer and electronic products	other 334	47 - 12,193	0 - 12,144	40	8	0	0	0
Electrical equipment, appliances, and components	335	585	162	413	10	0	0	0
Transportation equipment	336	3,537	413	2,664	362	i 95	0	3
Motor vehicles, bodies, trailers, and parts	3361-63	2,851 - 3,246	9 - 401	2,570	273	i *	i 0	* i
Aerospace products and parts	3364	227 - 245	13	42	74 - 90	95	0	3
Aircraft, aircraft engine, and aircraft parts	336411-13	223	13	42	75	90	0	3
Guided missile, space vehicle, and related parts	336414-15, 336419	4 - 21	0	0	0 - 16	5	i 0	0
Military armored vehicle, tank, and tank component	336992	0	0	0	0	0	0	0
Other transportation	other 336	51 - 459	0 - 392	52	0 - 16	i 0	0	0
Furniture and related products	337	0 - 172	0 - 172	0	0	0	0	0
Miscellaneous	339	478 - 683	392 - 565	78 - 199	7	0 - 4	0	*
Medical equipment and supplies	3391	479	393	79	7	0	0	*
Other miscellaneous manufacturing	3399	0 - 204	0 - 172	0 - 120	0	0 - 4	0	0
Nonmanufacturing industries	21-23, 42-81	12,123	i 8,054	i 3,622	435	2	2	9
Mining, quarrying, oil and gas extraction, and support activities	21	59	31 - 59	0	0 - 26	i 0	0	1 i
Utilities	22	7	3	4	0	0	0	0
Wholesale trade	42	33	1	i 32	0	0	0	0
Electronic shopping and electronic auctions	454111-12	204 - 2,583	i 204 - 2,535	i 0 - 51	0	0	0	0
Transportation and warehousing	48-49	*	0	0	*	0	0	0
Information	51	5,909	i 5,454	i 427	28	*	0	*
Publishing	511	1,188	1,001	187	*	0	0	*
Newspaper, periodical, book, and directory publishers	5111	0	0	0	0	0	0	0
Software publishers	5112	1,188	1,001	187	*	0	0	*
Telecommunications	517	26 - 64	0	26 - 64	0	0	0	*
Data processing, hosting, and related services	518	552	404 - 421	101 - 121	28	*	0	0

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Other information	other 51	4,104 - 4,144 i	4,031 - 4,050 i	54 - 113	0	0	0	0
Finance and insurance	52	0 - 2,298	0 - 2,298	0	0	0	0	0
Real estate and rental and leasing	53	0	0	0	0	0	0	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	0	0	0	0	0	0
Other real estate and rental and leasing	other 53	0	0	0	0	0	0	0
Professional, scientific, and technical services	54	3,533	32	3,111	380	1	2	7
Architectural, engineering, and related services	5413	35	4	27	4	*	1	0
Computer systems design and related services	5415	2,328	12	2,277	38	*	1	0
Scientific research and development services	5417	1,085	11	777	296	1	*	*
Research and development in nanotechnology	541713	9 i	0	9 i	*	0	0	0
Research and development in biotechnology (except nanobiotechnology)	541714	225	0	194	30	0	0	0
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	851	11	573	266	1	*	*
Research and development in the social sciences and humanities	541720	0	0	0	0	0	0	0
Other professional, scientific, and technical services	other 54	85	6	30	42	*	0	7
Health care services	621-23	3	0	0	3	0	0	*
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	0 - 76	0	0 - 51	0 - 26	0	0	0
All companies (number of domestic employees)	-	47,052	27,038	17,784	2,070	128	2	30
Small companies								
10-19 ^b	-	182	23	127	29	3	1	*
20-49	-	509	42	414	42	1	*	i 10
Medium companies								
50-99	-	706	47	551	105	1	1	*
100-249	-	1,129	277	689	153	*	*	i 10
Large companies								
250-499	-	1,590	547	833	210	0	*	*
500-999	-	2,308	708	1,392	199	5 i	0	2
1,000-4,999	-	9,629	1,976	7,323	330	0	*	i 0
5,000-9,999	-	2,878	1,544	843	489	* i	0	3 i
10,000-24,999	-	9,205	3,173	5,536	459 i	37 i	0	0

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25,000 or more	–	18,915	18,700	76	55	80	0	3

* = amount < \$500,000; 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.

^a Statistics are based on companies in the United States that reported to the survey. No systematic item imputation was applied. These statistics include an adjustment to the weight to account for unit nonresponse.

^b The Business Enterprise Research and Development Survey does not include companies with fewer than 10 domestic employees.

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. In all other tables, R&D costs of foreign-company subsidiaries of U.S. companies are included in company-funded U.S. domestic R&D totals. Only in this table are such R&D costs classified as being part of R&D paid for by sources located outside of the United States. 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, 2020.