

TABLE 4

**Companies with worldwide, domestic, and foreign R&D paid for by the company and others and performed by the company, by source of funds, industry, and company size: 2019**

(Number of companies)

Industry and company size	NAICS code	Worldwide R&D performance			Domestic R&D performance			Foreign R&D performance		
		Total	Paid for by the company	Paid for by others	Total	Paid for by the company	Paid for by others	Total	Paid for by the company	Paid for by others
All industries	21-23, 31-33, 42-81	28,430	26,450	4,310	28,270	26,270	4,250	3,050	2,920	300
Manufacturing industries	31-33	15,210	14,450	2,170	15,180	14,410	2,140	1,470	1,430	170
Food	311	870	860	70	870	860	60	50	50	10
Beverage and tobacco products	312	350	350	10 i	350	350	10 i	10	10	0
Textile, apparel, and leather products	313-16	240	210	70	240	210	70	30	30	0
Wood products	321	80	80	10	80	80	10	10 i	10 i	0
Paper	322	90	90	10 i	90	90	10	20	20	10 i
Printing and related support activities	323	200	200	0	200	200	0	10 i	10 i	0
Petroleum and coal products	324	80	70	10	80	70	10	10	10	10 i
Chemicals	325	2,340	2,260	380	2,330	2,260	370	320	310	40
Basic chemicals	3251	240	240	40	240	240	40	60	60	10 i
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	180	170	20	180	170	20	20	20	10 i
Pesticide, fertilizer, and other agricultural chemicals	3253	150	150	10	150	150	10	20	20	10
Pharmaceuticals and medicines	3254	1,060	1,010	280	1,060	1,000	270	200	190	30 i
Soap, cleaning compound, and toilet preparation	3256	270	260	30	270	260	30	20	20	0
Paint, coating, adhesive, and other chemicals	3255, 3259	470	460	30	460	460	30	30	30	10
Plastics and rubber products	326	790	770	110	790	770	110	70	70	10 i
Nonmetallic mineral products	327	170	170	20	170	160	20	20	20	0
Primary metals	331	200	200	30	200	200	30	20	20	10
Fabricated metal products	332	1,840	1,690	200	1,840	1,690	200	60	60	10 i
Machinery	333	2,250	2,090	340	2,240	2,080	340	170	160	20 i
Agricultural implement	33311	190	190	20	190	180	20	20	20	10 i
Semiconductor machinery	333242	80	60	40	80	60	40	20	20	10
Engine, turbine, and power transmission equipment	3336	110	100	40	110	100	40	20	20	10 i
Other machinery	other 333	1,890	1,770	250	1,880	1,760	250	120	120	10 i
Computer and electronic products	334	2,290	2,170	390	2,280	2,160	380	340	330	50
Communications equipment	3342	300	290	30	300	290	30	60	50	10 i
Semiconductor and other electronic components	3344	640	560	170	640	550	160	110	110	30
Navigational, measuring, electromedical, and control instruments	3345	1,140	1,120	180	1,140	1,120	170	120	120	20
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	230	220	60	230	220	60	30	30	10 i

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Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	190	190	40	190	190	40	20	20	10 i
Other measuring and controlling device	other 3345	740	720	90	740	720	90	80	80	10
Other computer and electronic products	other 334	220	220	30	220	220	30	70	70	10
Electrical equipment, appliances, and components	335	900	880	70	900	880	60	90	90	20 i
Transportation equipment	336	1,090	980	350 i	1,090	970	350 i	130	120	40
Motor vehicles, bodies, trailers, and parts	3361-63	550	530	100	540	530	100	90	80	20
Aerospace products and parts	3364	380 i	290	230 i	380 i	290	230 i	30	30	10
Aircraft, aircraft engine, and aircraft parts	336411-13	200	180	60	200	180	60	30	30	10
Guided missile, space vehicle, and related parts	336414-15, 336419	190 i	110 i	170 i	190 i	110 i	170 i	10	10	0
Military armored vehicle, tank, and tank component	336992	30	30	10	30	30	10	0	0	0
Other transportation	other 336	150	140	20	150	140	20	20	20	10
Furniture and related products	337	190	190	10	190	190	10	20	20	0
Miscellaneous	339	1,310	1,280	190	1,310	1,280	190	180	170	20
Medical equipment and supplies	3391	790	770	140	790	770	140	110	100	20
Other miscellaneous manufacturing	3399	520	520	50 i	520	520	50 i	80	80	10
Nonmanufacturing industries	21-23, 42-81	13,230	12,010	2,140	13,100	11,880	2,120	1,590	1,500	130
Mining, quarrying, oil and gas extraction, and support activities	21	160	150	30	160	150	30	30	20	10 i
Utilities	22	40	40	10	40	40	10	10	10	0
Wholesale trade	42	1,620	1,560	130	1,560	1,500	130	180 i	180 i	0
Electronic shopping and electronic auctions	454111-12	60	60	10	60	60	10	10 i	10 i	0
Transportation and warehousing	48-49	130	130	10	130	130	10	20 i	20 i	0
Information	51	3,110	3,020	230	3,090	3,000	210	710	700	30
Publishing	511	1,100	1,050	90	1,080	1,040	80	230	230	20
Newspaper, periodical, book, and directory publishers	5111	40	40	10	40	40	10	0	0	0
Software publishers	5112	1,060	1,020	90	1,040	1,000	80	230	230	20
Telecommunications	517	210	210	40	210	210	40	30	30	10
Data processing, hosting, and related services	518	1,480	1,440	70	1,480	1,440	60	390	390	10 i
Other information	other 51	340	330	40	340	330	40	70	70	0
Finance and insurance	52	220	220	10 i	220	220	10	50	50	10

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		Total	Paid for by the company	Paid for by others	Total	Paid for by the company	Paid for by others	Total	Paid for by the company	Paid for by others
Real estate and rental and leasing	53	50	50	0	50	50	0	10	10	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	20	20	0	20	20	0	10	10	0
Other real estate and rental and leasing	other 53	30	30	0	30	30	0	10	10	0
Professional, scientific, and technical services	54	6,540	5,590	1,600	6,500	5,540	1,600	580	500	100
Architectural, engineering, and related services	5413	1,470	1,180	440	1,450	1,160	440	70	40	40
Computer systems design and related services	5415	3,040	2,900	240	3,020	2,880	240	340	340	10
Scientific research and development services	5417	1,240	850	730	1,230	850	730	100	60	50
Research and development in biotechnology	541711	310	210	170	310	210	170	20	20	10
Research and development in the physical, engineering, and life sciences (except biotechnology)	541712	900	630	550	900	630	550	70	50	40
Research and development in the social sciences and humanities	541720	30	20	20	30	20	20	10	10	10
Other professional, scientific, and technical services	other 54	810	670	210	810	670	210	80	70	20
Health care services	621-23	680	560	140	680	560	140	10	10	10
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	690	680	20	680	670	20	30	30	10
All companies (number of domestic employees)	-	28,430	26,450	4,310	28,270	26,270	4,250	3,050	2,920	300
Small companies										
10-19 <sup>a</sup>	-	5,520	5,020	1,040	5,490	4,990	1,040	220	190	50
20-49	-	8,020	7,270	1,320	7,980	7,220	1,310	550	520	40
Medium companies										
50-99	-	5,000	4,770	600	4,960	4,720	590	430	420	30
100-249	-	4,610	4,390	630	4,580	4,350	620	450	430	50
Large companies										
250-499	-	2,150	2,070	230	2,140	2,050	230	320	310	20
500-999	-	1,230	1,180	140	1,230	1,180	130	310	300	20
1,000-4,999	-	1,340	1,230	240	1,330	1,230	220	490	480	50
5,000-9,999	-	240	230	50	240	230	50	130	130	20
10,000-24,999	-	220	220	60	220	220	60	120	120	30
25,000 or more	-	140	140	40	130	130	40	80	80	20

i = &gt; 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

<sup>a</sup> 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. Beginning in survey year 2018, statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D. This change has affected the comparability of these estimates with estimates published for years prior to 2018. Statistics are based on companies in the United States that reported to the survey. No systematic item imputation was applied. Beginning in survey year 2018, these statistics include an adjustment to the weight to account for unit nonresponse; beginning in survey year 2019, these company count estimates reflect a change in rounding methodology.

**Source(s):**

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2019.