

TABLE 4

## Companies with worldwide, domestic, and foreign R&amp;D paid for by the company and others and performed by the company, by source of funds, industry, and company size: 2022

(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	30,120	28,590	4,040	29,990	28,450	3,920	3,850	3,710	320	i
Manufacturing industries	31-33	14,910	14,380	1,870	14,850	14,310	1,780	1,730	1,640	230	i
Food	311	960	960	60	960	950	60	60	60	10	i
Beverage and tobacco products	312	160	160	10	160	160	10	20	20	0	
Textile, apparel, and leather products	313-16	260	260	20	260	260	20	40	30	10	i
Wood products	321	110	100	10	110	100	10	10	10	0	
Paper	322	100	100	10	100	100	10	10	10	10	i
Printing and related support activities	323	140	140	10	140	140	10	10	10	0	
Petroleum and coal products	324	80	80	10	80	80	10	10	10	10	i
Chemicals	325	2,320	2,240	410	2,320	2,240	380	450	440	50	i
Basic chemicals	3251	320	310	30	320	310	30	110	110	10	
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	200	200	40	200	200	40	30	30	10	i
Pesticide, fertilizer, and other agricultural chemicals	3253	70	70	10	70	70	10	20	20	10	
Pharmaceuticals and medicines	3254	1,130	1,080	280	1,130	1,080	280	250	240	30	
Soap, cleaning compound, and toilet preparations	3256	270	270	10	270	270	10	20	20	10	
Paint, coating, adhesive, and other chemicals	3255, 3259	350	340	50	350	340	40	40	40	20	r
Plastics and rubber products	326	850	800	90	840	790	90	80	80	10	
Nonmetallic mineral products	327	270	260	30	260	250	30	30	30	0	
Primary metals	331	270	240	50	270	230	50	20	20	10	i
Fabricated metal products	332	1,870	1,780	150	1,870	1,780	150	70	60	10	i
Machinery	333	2,060	2,000	230	2,050	1,990	230	220	220	20	
Agricultural implement	33311	160	160	20	160	160	20	20	20	10	i
Semiconductor machinery	333242	50	50	10	50	50	10	20	20	10	
Engine, turbine, and power transmission equipment	3336	110	110	40	110	110	40	20	20	10	
Other machinery	other 333	1,750	1,690	180	1,740	1,680	180	180	180	10	i
Computer and electronic products	334	2,380	2,310	360	2,370	2,300	310	350	300	80	i
Communications equipment	3342	340	330	30	340	330	30	70	70	10	
Semiconductor and other electronic components	3344	510	490	80	510	490	70	100	100	10	
Navigational, measuring, electromedical, and control instruments	3345	1,040	1,000	240	1,030	990	200	160	110	60	r
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	190	170	70	190	170	70	30	30	10	i
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	110	110	20	110	110	20	30	30	10	
Other measuring and controlling devices	other 3345	750	730	160	740	730	110	100	60	50	r
Other computer and electronic products	other 334	500	500	20	500	500	20	40	40	10	
Electrical equipment, appliances, and components	335	520	510	60	520	510	50	100	100	10	i

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Transportation equipment	336	1,100	1,040	260	1,100	1,040	260	170	160	50
Motor vehicles, bodies, trailers, and parts	3361-63	600	550	150	600	550	150	110	110	30
Aerospace products and parts	3364	270	250	100	270	250	100	40	40	20
Aircraft, aircraft engine, and aircraft parts	336411-13	230	220	80	230	220	80	40	40	20
Guided missile, space vehicle, and related parts	336414-15, 336419	40	40	20	40	40	20	10	10	10
Military armored vehicle, tank, and tank components	336992	10	10	10	10	10	10	10	10	0
Other transportation	other 336	230	230	30	230	230	30	20	10	20
Furniture and related products	337	210	210	10	210	210	10	10	10	0
Miscellaneous	339	1,330	1,290	170	1,330	1,280	170	160	160	20
Medical equipment and supplies	3391	820	790	120	820	790	120	110	110	20
Other miscellaneous manufacturing	3399	510	500	60	510	500	60	50	50	0
Nonmanufacturing industries	21-23, 42-81	15,230	14,220	2,170	15,150	14,150	2,150	2,130	2,070	100
Mining, quarrying, oil and gas extraction, and support activities	21	140	140	20	140	140	20	20	20	10
Utilities	22	50	50	10	50	50	10	10	10	10
Wholesale trade	42	1,610	1,570	90	1,600	1,560	90	130	130	0
Electronic shopping and electronic auctions	454111-12	120	120	0	120	120	0	20	20	0
Transportation and warehousing	48-49	70	70	10	70	60	10	10	10	0
Information	51	3,510	3,450	270	3,500	3,450	250	940	930	30
Publishing	511	1,450	1,430	120	1,440	1,430	110	310	310	20
Newspaper, periodical, book, and directory publishers	5111	40	40	10	40	40	10	10	10	0
Software publishers	5112	1,420	1,400	110	1,410	1,400	110	310	310	20
Telecommunications	517	270	260	80	270	260	80	30	30	10
Data processing, hosting, and related services	518	1,530	1,490	70	1,530	1,490	60	540	530	10
Other information	other 51	280	280	10	280	280	10	70	70	0
Finance and insurance	52	530	530	10	530	530	10	70	70	10
Real estate and rental and leasing	53	70	70	0	70	70	0	20	20	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	50	50	0	50	50	0	20	20	0
Professional, scientific, and technical services	54	7,330	6,480	1,700	7,280	6,420	1,690	870	830	70
Architectural, engineering, and related services	5413	1,430	1,240	430	1,430	1,240	430	90	80	10
Computer systems design and related services	5415	3,400	3,200	410	3,360	3,150	410	550	540	10
Scientific research and development services	5417	1,460	1,080	760	1,450	1,070	750	140	120	50
Research and development in nanotechnology	541713	100	70	60	100	60	60	10	10	10
Research and development in biotechnology (except nanobiotechnology)	541714	340	280	130	340	280	130	40	40	20

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Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,020	730	560	1,020	730	560	100	80	30	i
Research and development in the social sciences and humanities	541720	20	10	10	20	10	10	10	0	10	
Other professional, scientific, and technical services	other 54	1,050	980	120	1,050	980	110	100	100	10	i
Health care services	621-23	310	280	70	310	270	70	30	30	10	i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	1,550	1,540	40	1,550	1,540	40	60	60	0	
All companies (number of domestic employees)	-	30,120	28,590	4,040	29,990	28,450	3,920	3,850	3,710	320	i
Small companies											
10-19 <sup>a</sup>	-	5,890	5,400	1,110	5,890	5,390	1,070	380	340	60	r
20-49	-	8,250	7,810	1,210	8,200	7,760	1,200	730	690	60	i
Medium companies											
50-99	-	5,140	4,910	560	5,110	4,880	550	530	510	30	i
100-249	-	5,210	5,030	470	5,190	5,010	460	560	550	30	
Large companies											
250-499	-	2,180	2,110	240	2,160	2,090	230	420	410	30	
500-999	-	1,420	1,370	150	1,410	1,370	130	350	340	40	i
1,000-4,999	-	1,440	1,400	180	1,440	1,400	170	570	570	40	
5,000-9,999	-	270	270	60	270	270	50	150	140	30	
10,000-24,999	-	220	210	70	220	210	60	120	120	30	
25,000 or more	-	140	140	40	140	140	40	80	80	30	

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

NAICS = 2017 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. 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. 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, 2022.