

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: 2021

(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	31,670	30,060	4,660	31,490	29,860	4,560	3,470	3,340	320	i
Manufacturing industries	31–33	15,660	15,020	2,090	15,620	14,980	2,040	1,590	1,540	190	
Food	311	900	880	50	890	880	50	50	50	10	
Beverage and tobacco products	312	190	190	20	190	190	20	10	10	0	
Textile, apparel, and leather products	313–16	310	300	20	310	300	20	30	30	0	
Wood products	321	150	150	10	150	150	10	10	10	0	
Paper	322	120	120	10	120	120	0	20	20	10	i
Printing and related support activities	323	170	170	10	170	170	10	10	10	0	
Petroleum and coal products	324	110	110	10	110	110	10	10	10	0	
Chemicals	325	2,250	2,120	450	2,250	2,120	430	350	340	40	
Basic chemicals	3251	250	240	50	250	240	50	50	50	10	
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	130	120	30	130	120	30	20	20	10	i
Pesticide, fertilizer, and other agricultural chemicals	3253	100	100	10	100	100	10	10	10	10	
Pharmaceuticals and medicines	3254	1,220	1,110	350	1,210	1,110	340	240	240	30	
Soap, cleaning compound, and toilet preparations	3256	290	290	10	290	290	10	30	30	10	
Paint, coating, adhesive, and other chemicals	3255, 3259	300	300	20	300	300	20	30	30	10	i
Plastics and rubber products	326	930	890	100	920	880	100	90	90	10	i
Nonmetallic mineral products	327	350	340	20	340	340	20	20	20	0	
Primary metals	331	260	250	30	260	250	30	20	20	10	i
Fabricated metal products	332	2,310	2,160	310	2,310	2,160	310	70	60	10	i
Machinery	333	2,170	2,090	260	2,170	2,090	260	160	160	30	
Agricultural implement	33311	150	140	10	150	140	10	20	20	10	
Semiconductor machinery	333242	60	50	20	60	50	10	20	20	10	
Engine, turbine, and power transmission equipment	3336	80	80	30	80	80	30	20	20	10	i
Other machinery	other 333	1,900	1,830	220	1,900	1,830	210	120	110	20	i
Computer and electronic products	334	2,140	2,060	360	2,130	2,040	350	380	380	40	
Communications equipment	3342	280	280	30	280	270	30	70	70	10	
Semiconductor and other electronic components	3344	670	610	150	660	610	140	120	110	20	
Navigational, measuring, electromedical, and control instruments	3345	970	950	170	960	940	170	150	150	20	
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	180	180	30	180	180	30	50	50	10	i
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	190	180	40	190	180	40	50	50	10	r
Other measuring and controlling devices	other 3345	610	600	110	600	600	110	60	60	10	
Other computer and electronic products	other 334	240	240	30	240	240	20	60	60	10	r
Electrical equipment, appliances, and components	335	580	570	50	580	570	50	90	90	10	i

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Transportation equipment	336	1,150	1,080	260	1,150	1,080	260	190	160	60
Motor vehicles, bodies, trailers, and parts	3361-63	570	530	130	570	530	130	100	100	20
Aerospace products and parts	3364	350	320	100	350	320	100	30	30	20
Aircraft, aircraft engine, and aircraft parts	336411-13	310	300	80	310	300	80	30	30	20
Guided missile, space vehicle, and related parts	336414-15, 336419	40	30	30	40	30	30	10	10	0
Military armored vehicle, tank, and tank components	336992	20	20	10	20	20	10	10	10	0
Other transportation	other 336	220	220	40	220	220	40	60	40	30
Furniture and related products	337	230	220	20	230	220	20	10	10	10
Miscellaneous	339	1,450	1,400	190	1,450	1,400	180	170	160	20
Medical equipment and supplies	3391	820	780	120	820	780	110	100	100	20
Other miscellaneous manufacturing	3399	640	620	80	640	620	80	70	70	10
Nonmanufacturing industries	21-23, 42-81	16,020	15,050	2,580	15,880	14,890	2,520	1,900	1,800	140
Mining, quarrying, oil and gas extraction, and support activities	21	180	170	20	180	170	20	20	10	10
Utilities	22	40	40	10	40	40	10	10	10	0
Wholesale trade	42	1,830	1,760	220	1,810	1,720	220	180	180	0
Electronic shopping and electronic auctions	454111-12	180	180	20	180	180	20	20	20	0
Transportation and warehousing	48-49	80	80	10	80	80	10	10	10	10
Information	51	3,530	3,470	260	3,450	3,380	230	960	920	50
Publishing	511	1,480	1,470	150	1,420	1,410	120	340	310	40
Newspaper, periodical, book, and directory publishers	5111	60	60	20	60	60	20	10	10	0
Software publishers	5112	1,430	1,410	130	1,370	1,350	100	340	310	40
Telecommunications	517	170	160	10	170	160	10	20	20	0
Data processing, hosting, and related services	518	1,700	1,660	100	1,700	1,660	100	520	520	10
Other information	other 51	200	200	10	180	180	10	80	80	10
Finance and insurance	52	530	530	10	530	530	10	80	80	10
Real estate and rental and leasing	53	50	50	10	50	50	10	10	10	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	10	10	0	10	10	0	10	10	0
Other real estate and rental and leasing	other 53	40	40	10	40	40	10	10	10	0
Professional, scientific, and technical services	54	7,080	6,320	1,630	7,050	6,290	1,610	600	550	80
Architectural, engineering, and related services	5413	1,440	1,270	360	1,430	1,260	360	30	30	10
Computer systems design and related services	5415	3,410	3,230	400	3,390	3,220	390	380	360	30
Scientific research and development services	5417	1,370	1,030	740	1,370	1,020	730	120	90	50
Research and development in nanotechnology	541713	70	60	30	70	60	30	10	10	0
Research and development in biotechnology (except nanobiotechnology)	541714	310	240	150	310	240	150	40	30	20

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Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	980	730	550	980	720	550	80	60	40	i
Research and development in the social sciences and humanities	541720	30	20	20	30	20	20	10	0	10	
Other professional, scientific, and technical services	other 54	880	800	150	870	800	150	80	80	10	
Health care services	621-23	590	r 550	r 400	r 590	r 550	r 400	r 20	20	10	i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	1,980	1,960	40	1,980	1,960	40	40	40	10	
All companies (number of domestic employees)	-	31,670	30,060	4,660	31,490	29,860	4,560	3,470	3,340	320	i
Small companies											
10-19 ^a		- 5,720	5,300	1,160	5,690	5,250	1,160	370	i 350	i 30	i
20-49		- 9,310	8,800	1,640	9,210	8,700	1,620	600	560	60	i
Medium companies											
50-99		- 5,770	5,530	630	5,760	5,520	600	510	480	40	r
100-249		- 5,590	5,350	550	5,570	5,330	540	510	490	40	i
Large companies											
250-499		- 2,060	1,980	220	2,050	1,970	210	370	370	30	i
500-999		- 1,290	1,230	160	1,290	1,230	160	290	290	20	
1,000-4,999		- 1,350	1,310	180	1,350	1,300	160	510	510	50	
5,000-9,999		- 270	270	60	270	260	50	150	140	20	
10,000-24,999		- 210	200	60	210	200	60	130	120	40	
25,000 or more		- 130	130	40	130	130	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.

^a 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, 2021.