

Table 29. Domestic R&D paid for and performed by the company, by industry, company size, and domestic R&D program size: 2024

(Millions of U.S. dollars)

Industry and company size	NAICS code	R&D program size						
		All companies	Less than \$1 million	\$1 million–\$9.999 million	\$10 million–\$49.999 million	\$50 million–\$99.999 million	\$100 million or more	
All industries	21–23, 31–33, 42–81	679,371	4,365	29,642	45,735	33,026	566,604	
Manufacturing industries	31–33	356,431	2,094	13,372	23,162	21,153	296,650	
Food	311	6,020	158	864	771	840	3,386	
Beverage and tobacco products	312	1,459	46	92	67	438	815	
Textile, apparel, and leather products	313–16	783	24	238	236	138	147	
Wood products	321	261	14	106	141	0	0	
Paper	322	1,238	9	99	201	61	868	
Printing and related support activities	323	253	18	95	54	86	0	
Petroleum and coal products	324	1,004	D	64	162	D	D	
Chemicals	325	131,790	286	2,514	9,417	8,311	111,261	
Basic chemicals	3251	2,883	70	D	576	533	D	
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	D	23	D	D	60	D	
Pesticide, fertilizer, and other agricultural chemicals	3253	D	9	72	181	0	D	
Pharmaceuticals and medicines	3254	122,656	71	1,361	8,150	7,434	105,641	
Soap, cleaning compound, and toilet preparations	3256	2,684	36	173	102	105	2,269	
Paint, coating, adhesive, and other chemicals	3255, 3259	D	77	D	D	179	D	
Plastics and rubber products	326	2,767	149	570	512	398	1,139	
Nonmetallic mineral products	327	1,556	39	128	232	0	1,157	
Primary metals	331	1,129	26	172	268	61	602	
Fabricated metal products	332	3,137	297	1,116	414	582	728	
Machinery	333	19,844	333	1,785	1,814	1,711	14,200	
Agricultural implement	33311	D	34	119	68	D	D	
Semiconductor machinery	333242	D	2	58	D	138	D	
Engine, turbine, and power transmission equipment	3336	D	D	D	178	D	D	
Other machinery	other 333	8,060	D	D	D	D	D	
Computer and electronic products	334	107,038	281	1,973	3,019	3,158	98,606	
Communications equipment	3342	12,069	38	483	D	481	D	
Semiconductor and other electronic components	3344	48,546	73	535	920	1,294	45,725	
Navigational, measuring, electromedical, and control instruments	3345	10,736	142	788	1,317	1,048	7,441	
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	3,046	31	220	498	396	1,901	
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	3,190	13	92	277	120	2,688	
Other measuring and controlling devices	other 3345	4,501	98	476	542	533	2,852	
Other computer and electronic products	other 334	35,687	29	167	D	335	D	
Electrical equipment, appliances, and components	335	6,135	48	448	1,148	1,132	3,359	
Transportation equipment	336	47,039	184	1,101	2,205	1,463	42,086	
Motor vehicles, bodies, trailers, and parts	3361–63	D	D	D	1,358	914	27,109	
Aerospace products and parts	3364	15,130	D	D	669	334	D	
Aircraft, aircraft engine, and aircraft parts	336411–13	D	23	D	D	334	9,684	
Guided missile, space vehicle, and related parts	336414–15, 336419	D	D	D	D	0	D	
Military armored vehicle, tank, and tank components	336992	23	1	22	0	0	0	
Other transportation	other 336	D	31	D	177	215	D	

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Furniture and related products	337	450	27	123	158	142	0
Miscellaneous	339	24,528	D	1,882	2,340	D	D
Medical equipment and supplies	3391	21,840	87	1,449	1,833	1,794	16,676
Other miscellaneous manufacturing	3399	2,688	D	433	507	D	D
Nonmanufacturing industries	21–23, 42–81	322,940	2,270	16,270	22,573	11,873	269,953
Mining, quarrying, oil and gas extraction, and support activities	21	1,224	9	D	D	140	D
Utilities	22	D	4	D	113	108	302
Wholesale trade	42	D	322	1,040	D	0	0
Electronic shopping and electronic auctions	454111–12	7,898	i	D	85	164	D
Transportation and warehousing	48–49	D	D	557	r	222	D
Information	51	226,853	439	6,139	11,560	6,560	202,155
Publishing	511	63,085	271	2,600	3,485	1,638	55,092
Newspaper, periodical, book, and directory publishers	5111	489	i	6	i	23	0
Software publishers	5112	62,597	265	2,577	3,485	1,178	55,092
Telecommunications	517	D	24	212	D	162	2,486
Data processing, hosting, and related services	518	58,017	140	3,045	6,943	4,262	43,626
Other information	other 51	D	5	283	D	498	100,951
Finance and insurance	52	25,362	9	433	1,048	969	22,904
Real estate and rental and leasing	53	2,750	10	r	81	118	278
Lessors of nonfinancial intangible assets (except copyrighted works)	533	23	1	i	0	23	0
Other real estate and rental and leasing	other 53	2,727	10	r	81	96	278
Professional, scientific, and technical services	54	40,134	1,342	6,810	7,493	2,787	21,701
Architectural, engineering, and related services	5413	3,240	567	r	1,040	924	441
Computer systems design and related services	5415	22,353	521	3,348	3,773	1,467	13,244
Scientific research and development services	5417	5,705	78	1,631	1,460	435	2,102
Research and development in nanotechnology	541713	434	4	78	90	0	263
Research and development in biotechnology (except nanobiotechnology)	541714	1,204	24	505	465	129	79
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	4,060	48	1,041	905	306	1,759
Research and development in the social sciences and humanities	541720	8	1	7	0	0	0
Other professional, scientific, and technical services	other 54	8,835	i	176	792	1,336	444
Health care services	621–23	1,888	40	218	342	326	963
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	3,579	D	D	D	D	1,242
All companies (number of domestic employees)	–	679,371	4,365	29,642	45,735	33,026	566,604
Small companies							
10–19 ^a	–	3,734	954	2,433	347	0	0
20–49	–	14,153	1,439	6,830	3,219	247	2,418
Medium companies							
50–99	–	14,998	726	5,832	6,000	1,644	796
100–249	–	26,548	583	6,337	9,337	6,323	3,969

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Large companies									
250–499	–	26,185	185	3,419	8,194	4,000	10,388		
500–999	–	40,152	405 r	2,269	6,258	5,909	25,311		
1,000–4,999	–	110,612	62	2,020	8,970	9,746	89,813		
5,000–9,999	–	55,804	3	237	1,919	2,540	51,104		
10,000–24,999	–	120,991	3	187	1,009	1,893	117,898		
25,000 or more	–	266,195	5	77	483	724	264,906		

D = data withheld to avoid disclosing operations of individual companies; 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. R&D program size classifications are based on R&D performance.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2024.