

Table 14. Domestic R&D paid for by the company and others 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	765,082	4,687	33,211	50,612	36,345	640,228
Manufacturing industries	31–33	405,092	2,217	14,554	25,214	22,715	340,391
Food	311	6,288 i	164	878	901	840	3,505 i
Beverage and tobacco products	312	1,459	47	92	67	438	815
Textile, apparel, and leather products	313–16	788	24	244	236	138	147
Wood products	321	267	14	112	141	0	0
Paper	322	1,240	9	100	201	61	868
Printing and related support activities	323	255	18	96	54 i	86	0
Petroleum and coal products	324	1,006	D	64	164	D	D
Chemicals	325	143,745	303	2,795	10,319	9,056	121,273
Basic chemicals	3251	3,120	71	385	627	688	1,349
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,354	23 i	192	171	60 i	908
Pesticide, fertilizer, and other agricultural chemicals	3253	1,253	9	73	182	0	989
Pharmaceuticals and medicines	3254	133,627	79	1,583	8,941	8,024	114,999
Soap, cleaning compound, and toilet preparations	3256	2,956	37	176	108	105	2,529
Paint, coating, adhesive, and other chemicals	3255, 3259	1,435	85	386	289	179	497
Plastics and rubber products	326	2,908	154	594	512	398	1,250
Nonmetallic mineral products	327	1,578 i	43	146	232	0	1,157 i
Primary metals	331	1,174	26	180	304	61	602
Fabricated metal products	332	3,230	335	1,171	415	582	728
Machinery	333	22,035	349	1,977	1,915	1,865	15,929
Agricultural implement	33311	2,561	D	138	74	D	2,159
Semiconductor machinery	333242	6,851	3	60	141	138	6,509
Engine, turbine, and power transmission equipment	3336	4,230	D	64	189	D	3,902
Other machinery	other 333	8,394	D	1,714	1,511	D	3,359
Computer and electronic products	334	115,599	297	2,284	3,521	3,410	106,086
Communications equipment	3342	12,839	38	512	458	481	11,351
Semiconductor and other electronic components	3344	52,358	73	625	1,027	1,313	49,320
Navigational, measuring, electromedical, and control instruments	3345	14,083	157	962	1,603	1,281	10,080
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	3,245	33	278	565	464	1,905
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	6,161	15	114	427	284	5,321
Other measuring and controlling devices	other 3345	4,677	109	571	610	533	2,854
Other computer and electronic products	other 334	36,318	29	185	434	335	35,336
Electrical equipment, appliances, and components	335	6,999	54	487	1,221	1,280	3,957
Transportation equipment	336	71,231	195	1,236	2,443	1,728	65,629
Motor vehicles, bodies, trailers, and parts	3361–63	31,812	130	653	1,502	1,140	28,387
Aerospace products and parts	3364	35,904	33	342	744	360	34,426
Aircraft, aircraft engine, and aircraft parts	336411–13	D	30	D	617	360	24,547 i
Guided missile, space vehicle, and related parts	336414–15, 336419	D	3	D	127	0	9,878
Military armored vehicle, tank, and tank components	336992	33	1 i	33	0	0	0

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Other transportation	other 336	3,481	31	209	197	228	2,817
Furniture and related products	337	450	27	123	158	142	0
Miscellaneous	339	24,840	D	1,974	2,407	D	D
Medical equipment and supplies	3391	22,126	92	1,527	1,887	1,794	16,825
Other miscellaneous manufacturing	3399	2,715	D	447	519	D	D
Nonmanufacturing industries	21–23, 42–81	359,990	2,469	18,657	25,398	13,630	299,836
Mining, quarrying, oil and gas extraction, and support activities	21	1,862	9	79	274	165	1,336
Utilities	22	613	4	86	113	108	302
Wholesale trade	42	1,692	i 335	1,116	i 241	i 0	0
Electronic shopping and electronic auctions	454111–12	7,898	i D	85	164	D	7,546
Transportation and warehousing	48–49	11,341	D	559	r 222	D	10,410
Information	51	228,174	475	6,248	11,909	6,713	202,829
Publishing	511	63,596	293	2,633	3,583	1,785	55,303
Newspaper, periodical, book, and directory publishers	5111	489	i 6	i 23	0	460	i 0
Software publishers	5112	63,108	287	2,610	3,583	1,326	55,303
Telecommunications	517	3,323	25	219	431	162	2,486
Data processing, hosting, and related services	518	58,772	153	3,113	7,149	4,267	44,090
Other information	other 51	102,484	5	283	747	498	100,951
Finance and insurance	52	25,463	9	437	1,048	969	23,001
Real estate and rental and leasing	53	2,750	10	r 81	118	278	2,263
Lessors of nonfinancial intangible assets (except copyrighted works)	533	23	1	i 0	23	0	0
Other real estate and rental and leasing	other 53	2,727	10	r 81	96	278	2,263
Professional, scientific, and technical services	54	74,548	1,484	8,938	9,863	4,320	49,944
Architectural, engineering, and related services	5413	3,893	615	1,259	1,216	463	340
Computer systems design and related services	5415	26,764	559	3,686	4,179	1,568	16,771
Scientific research and development services	5417	33,942	126	2,989	2,947	1,740	26,140
Research and development in nanotechnology	541713	548	5	136	144	0	264
Research and development in biotechnology (except nanobiotechnology)	541714	6,751	30	792	648	372	4,909
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	25,931	88	2,036	2,113	1,368	20,326
Research and development in the social sciences and humanities	541720	712	3	25	43	0	642
Other professional, scientific, and technical services	other 54	9,949	i 183	1,003	1,521	549	6,693
Health care services	621–23	2,020	49	249	387	373	963
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	3,628	D	780	1,058	D	1,242
All companies (number of domestic employees)	–	765,082	4,687	33,211	50,612	36,345	640,228
Small companies							
10–19 ^a	–	4,790	1,084	3,277	429	0	0
20–49	–	16,179	1,544	8,165	3,699	353	2,418
Medium companies							
50–99	–	17,078	756	6,289	7,320	1,916	796

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100–249	–	29,325	620	6,851	10,633	7,099	4,123	
Large companies								
250–499	–	28,852	194	3,606	8,809	4,836	11,407	
500–999	–	44,697	412	2,401	6,801	6,185	28,898	
1,000–4,999	–	123,813	65	2,119	9,394	10,347	101,887	
5,000–9,999	–	62,950	3	238	1,997	2,657	58,055	
10,000–24,999	–	140,348	3	187	1,025	2,130	137,003	
25,000 or more	–	297,050	5	78	504	821	295,641	

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.