

Table 40. Domestic R&D paid for by the company's foreign subsidiaries and performed by the company, by type of R&D, industry, and company size: 2024

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total ^a	Basic research ^b	Applied research ^b	Development ^b
All industries	21–23, 31–33, 42–81	39,057	1,331	4,871	32,855
Manufacturing industries	31–33	27,534	1,245	4,718	21,571
Food	311	223	9	65	148
Beverage and tobacco products	312	0	0	0	0
Textile, apparel, and leather products	313–16	0	0	0	0
Wood products	321	0	0	0	0
Paper	322	0	0	0	0
Printing and related support activities	323	0	0	0	0
Petroleum and coal products	324	D	D	D	D
Chemicals	325	6,432	448	740	5,245
Basic chemicals	3251	9 i	0	1 i	8 i
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	*	*	*	*
Pesticide, fertilizer, and other agricultural chemicals	3253	*	0	0	*
Pharmaceuticals and medicines	3254	6,402	446	735	5,220
Soap, cleaning compound, and toilet preparations	3256	15 i	* i	*	14 i
Paint, coating, adhesive, and other chemicals	3255, 3259	6	1	3	2
Plastics and rubber products	326	493	15	107	370
Nonmetallic mineral products	327	12	3	10	0
Primary metals	331	0	0	0	0
Fabricated metal products	332	34 i	2	4 i	28 i
Machinery	333	523	67	124 i	332 i
Agricultural implement	33311	2	*	*	2
Semiconductor machinery	333242	3	0	*	3
Engine, turbine, and power transmission equipment	3336	0	0	0	0
Other machinery	other 333	518	67	123 i	327 i
Computer and electronic products	334	17,627	569	3,156	13,902
Communications equipment	3342	D	*	D	D
Semiconductor and other electronic components	3344	D	D	D	D
Navigational, measuring, electromedical, and control instruments	3345	164	* i	4	160
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	0	0	0	0
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	5	0	0	5
Other measuring and controlling devices	other 3345	159	* i	4	155
Other computer and electronic products	other 334	D	D	D	D
Electrical equipment, appliances, and components	335	67	5	9	53
Transportation equipment	336	469	46 i	212 i	210 i
Motor vehicles, bodies, trailers, and parts	3361–63	408	45 i	210 i	153 i
Aerospace products and parts	3364	61	1	2	57
Aircraft, aircraft engine, and aircraft parts	336411–13	D	D	*	D
Guided missile, space vehicle, and related parts	336414–15, 336419	D	D	2	D
Military armored vehicle, tank, and tank components	336992	0	0	0	0
Other transportation	other 336	0	0	0	0
Furniture and related products	337	71	7 i	9 i	55 i
Miscellaneous	339	D	D	D	D
Medical equipment and supplies	3391	1,162	16 i	168 i	978 i
Other miscellaneous manufacturing	3399	D	D	D	D
Nonmanufacturing industries	21–23, 42–81	11,523 i	86	153	11,284 i
Mining, quarrying, oil and gas extraction, and support activities	21	63	4	10	48
Utilities	22	0	0	0	0
Wholesale trade	42	0	0	0	0
Electronic shopping and electronic auctions	454111–12	2	0	0	2

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Transportation and warehousing	48–49	0	0	0	0
Information	51	10,025 i	74	97	9,855 i
Publishing	511	455	39	42 i	373
Newspaper, periodical, book, and directory publishers	5111	0	0	0	0
Software publishers	5112	455	39	42 i	373
Telecommunications	517	0	0	0	0
Data processing, hosting, and related services	518	D	31	47	D
Other information	other 51	D	4 i	7	D
Finance and insurance	52	1,137	0	8	1,130
Real estate and rental and leasing	53	0	0	0	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	0	0	0
Other real estate and rental and leasing	other 53	0	0	0	0
Professional, scientific, and technical services	54	294	8	38	248
Architectural, engineering, and related services	5413	7	1	0	6
Computer systems design and related services	5415	249	6	27	216
Scientific research and development services	5417	32	1	12	19
Research and development in nanotechnology	541713	3	* i	2 i	1 i
Research and development in biotechnology (except nanobiotechnology)	541714	5	*	3	3
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	23	1	6	16
Research and development in the social sciences and humanities	541720	0	0	0	0
Other professional, scientific, and technical services	other 54	7	0	0	7
Health care services	621–23	0	0	0	0
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	1	0	*	1
All companies (number of domestic employees)	–	39,057	1,331	4,871	32,855
Small companies					
10–19 ^c	–	15	*	3	12
20–49	–	40	2	11	27
Medium companies					
50–99	–	255	21	21	213
100–249	–	559	54	112	393
Large companies					
250–499	–	503	27	141	335
500–999	–	868	64 i	355 i	450
1,000–4,999	–	3,742	369	838	2,535
5,000–9,999	–	2,961	65	282	2,613
10,000–24,999	–	1,017	99	195	723 i
25,000 or more	–	29,097	630	2,913	25,554

* = amount < \$500,000; 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.

NAICS = 2017 North American Industry Classification System.

^a Statistics are based on companies in the United States that reported to the survey. No systematic item imputation was applied. These statistics include an adjustment to the weight to account for unit nonresponse.

^b Respondent was not asked to report categorical breakouts of research and development paid for by foreign subsidiaries. Rather, ratios of the company's basic research, applied research, and development were calculated as proportions of the overall domestic R&D performance paid for by the company. These ratios were applied to the company's domestic R&D performance paid for by foreign subsidiaries to get estimates of a company's basic research, applied research, and development paid for by foreign subsidiaries.

^c 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.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2024.