

Table 3

Sales, R&D, R&D intensity, and employment for companies that performed or funded business R&D in the United States, by selected industry and company size: 2018

(Millions of U.S. dollars, percent R&D intensity, and thousands of employees)

Industry, NAICS code, and company size	Domestic net sales (US\$millions) ^a	All R&D (US\$millions) ^b	R&D intensity (%) ^c	Domestic employment (thousands) ^d	
				Total	R&D ^e
All industries, 21–33, 42–81	10,698,764	441,036	4.1	20,645	1,766
Manufacturing industries, 31–33	5,951,870	274,075	4.6	10,013	981
Chemicals, 325	1,165,161	84,137	7.2	1,383	189
Pharmaceuticals and medicines, 3254	653,729	74,592	11.4	624	138
Other 325	511,432	9,545	1.9	759	51
Machinery, 333	372,991	14,799	4.0	902	93
Computer and electronic products, 334	821,622	83,697	10.2	1,296	277
Electrical equipment, appliance, and components, 335	131,419	4,487	3.4	289	24
Transportation equipment, 336	1,310,128	52,629	4.0	1,881	197
Motor vehicles, bodies, trailers, and parts, 3361–63	871,129	25,586	2.9	957	110
Aerospace products and parts, 3364	369,214	24,291	6.6	745	75
Other 336	69,785	2,752	3.9	179	12
Manufacturing nec, other 31–33	2,150,549	34,326	1.6	4,262	201
Nonmanufacturing industries, 21–23, 42–81	4,746,894	166,961	3.5	10,632	785
Information, 51	1,310,041	94,349	7.2	2,030	342
Software publishers, 5112	220,388	32,639	14.8	535	114
Other 51	1,089,653	61,710	5.7	1,495	228
Finance and insurance, 52	954,685	7,471	0.8	1,394	47
Professional, scientific, and technical services, 54	424,784	44,860	10.6	1,446	271
Computer systems design and related services, 5415	156,026	15,923	10.2	487	92
Scientific research and development services, 5417	71,852	20,185	28.1	300	97
Other 54	196,906	8,752	4.4	659	82
Nonmanufacturing nec, other 21–23, 42–81	2,057,384	20,281	1.0	5,762	125
Size of company (number of domestic employees)					
Small companies ^f					
10–19	20,349	4,390	21.6	64	25
20–49	69,771	11,252	16.1	236	68
Medium companies					
50–99	126,982	12,321	9.7	342	80
100–249	300,151	18,547	6.2	771	126
Large companies					
250–499	279,802	19,645	7.0	732	102
500–999	408,482	17,657	4.3	849	91
1,000–4,999	1,450,957	68,578	4.7	2,816	306
5,000–9,999	1,001,344	45,337	4.5	1,713	178
10,000–24,999	2,262,566	84,420	3.7	3,454	304
25,000 or more	4,778,360	158,889	3.3	9,667	486

NAICS = North American Industry Classification System; nec = not elsewhere classified.

^a Dollar values for goods sold or services rendered by R&D-performing or R&D-funding companies located in the United States to customers outside of the company, including the U.S. federal government, foreign customers, and the company's foreign subsidiaries. Included are revenues from a company's foreign operations and subsidiaries and from discontinued operations. If a respondent company is owned by a foreign parent company, sales to the parent company and to affiliates not owned by the respondent company are included. Excluded are intracompany transfers, returns, allowances, freight charges, and excise, sales, and other revenue-based taxes.

^b All R&D is the cost of R&D paid for and performed by the respondent company and paid for by others outside of the company and performed by the company.

^c R&D intensity is the cost of domestic R&D paid for by the respondent company and others outside of the company and performed by the company

divided by domestic net sales of companies that performed or funded R&D.

^d Data recorded on 12 March represent employment figures for the year.

^e Includes researchers, R&D managers, technicians, clerical staff, and others assigned to R&D groups.

^f The Business Research and Development Survey does not include companies with fewer than 10 employees.

Note(s)

Detail may not add to total because of rounding. Beginning in survey year 2018, companies that performed or funded less than \$50,000 of R&D were excluded from tabulation. These companies in aggregate represented a very small share of total R&D expenditures in prior years. Had the companies under this threshold been included in the 2018 estimates, they would have contributed approximately \$90 million to overall R&D expenditures. Estimates of aggregate sales and total domestic employment would have been similarly affected. Industry classification was based on 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. Excludes data for federally funded research and development centers.

Source(s)

National Center for Science and Engineering Statistics and U.S. Census Bureau, Business Research and Development Survey, 2018.