

TABLE 11

Domestic sales and domestic R&D performed by the company as a percentage of domestic sales, by selected industry and employment size, for companies with 1–9 employees: 2018

(Thousands of U.S. dollars and percentage of sales)

Industry	NAICS code	All companies		1–4 employees		5–9 employees	
		Total sales	R&D as a percentage of sales	Total sales	R&D as a percentage of sales	Total sales	R&D as a percentage of sales
All selected industries	31–33, 42, 51, 5413, 5415, 5417	10,620,355	43	4,192,541	45	6,427,814	41
Manufacturing industries	31–33	1,972,820	28	824,010	28	1,148,809	28
Food, beverage, and tobacco products	311–12	D	D	D	D	0	0
Textile, apparel, and leather products	313–16	21,572	r 4	D	D	D	D
Wood products	321	0	0	0	0	0	0
Paper	322	0	0	0	0	0	0
Printing and related support activities	323	0	0	0	0	0	0
Petroleum and coal products	324	D	D	0	0	D	D
Chemicals	325	537,969	16	r 302,479	r 16	r 235,490	16
Pharmaceuticals and medicines	3254	381,157	14	r 233,977	r 10	r 147,180	21
Chemicals, excluding pharmaceuticals	other 325	156,812	20	r 68,502	36	r 88,310	8
Plastics and rubber products	326	0	0	0	0	0	0
Nonmetallic mineral products	327	6,087	r 85	r D	D	D	D
Primary metals	331	0	0	0	0	0	0
Fabricated metal products	332	D	D	D	D	D	D
Machinery	333	32,095	132	r 11,132	171	r 20,963	112
Computer and electronic products	334	967,367	31	259,051	34	708,315	30
Semiconductor and other electronic components	3344	185,176	31	52,804	32	r 132,372	30
Navigational, measuring, electromedical, and control instruments	3345	528,298	38	149,199	37	379,099	38
Other computer and electronic products	other 334	253,893	18	57,048	27	r 196,844	16
Electrical equipment, appliances, and components	335	257,278	11	r 157,058	r 8	r 100,220	16
Transportation equipment	336	14,759	88	r 7,593	r 82	r 7,166	95
Aerospace products and parts	3364	9,550	107	r 3,320	116	r 6,230	102
Other transportation equipment	other 336	D	D	D	D	D	D
Furniture and related products	337	0	0	0	0	0	0
Miscellaneous manufacturing	339	102,468	68	r 64,371	r 84	r 38,097	41
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	8,647,536	46	3,368,531	49	5,279,005	44
Wholesale trade	42	353,446	52	74,552	97	r 278,894	40
Information	51	1,766,962	29	564,000	29	1,202,962	29
Software publishers	5112	1,188,994	31	224,713	52	964,281	26
Information, excluding software publishers	51, excluding 5112	577,968	26	339,287	14	r 238,681	42
Architectural, engineering, and related services	5413	1,629,615	25	r 485,345	47	1,144,270	r 16
Computer systems design and related services	5415	3,302,812	31	1,467,300	30	1,835,512	32
Scientific research and development services	5417	1,594,700	114	777,333	96	817,367	131

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Research and development in nanotechnology	541713	318,659	92	139,497	86	179,162	97
Research and development in biotechnology (except nanobiotechnology)	541714	424,684	155	212,223	126	212,461	184
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	811,455	104	406,056	87	405,399	120
Social sciences and humanities research and development	541720	11,031	109	4,113	70	6,918	132

D = withheld to avoid disclosing data for individual companies; data are included in higher-level totals. r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. Industry classification is based on dominant establishment payroll. Statistics are representative of companies located in the United States that performed or funded R&D.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, 2019 Annual Business Survey: Data Year 2018.