

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: 2021

(Thousands of U.S. dollars and percent)

Industry	NAICS code	All companies		1–4 employees		5–9 employees	
		Total sales	R&D as percentage of sales	Total sales	R&D as percentage of sales	Total sales	R&D as percentage of sales
All selected industries	31–33, 42, 51, 5413, 5415, 5417	14,404,579	43	5,896,014	44	8,508,565	42
Manufacturing industries	31–33	2,481,919	30	676,678	48	1,805,241	23
Food, beverage, and tobacco products	311–12	161,694 r	11 r	29,791	25 r	131,903 r	8 r
Textile, apparel, and leather products	313–16	17,383	41 r	17,383	41 r	0	0
Wood products	321	110	122	110	122	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	0	0	0	0	0	0
Chemicals	325	554,360	24	105,687	62 r	448,673	15
Pharmaceuticals and medicines	3254	115,349	84 r	32,752	163 r	82,597	52 r
Chemicals, excluding pharmaceuticals	other 325	439,010	8	72,934	17 r	366,076	6
Plastics and rubber products	326	36,857	17	13,696 r	18 r	23,161	17
Nonmetallic mineral products	327	13,482 r	27 r	12,333 r	26 r	1,148	39
Primary metals	331	25,945 r	8 r	333	152	25,612 r	6 r
Fabricated metal products	332	44,037 r	27 r	1,898	353	42,139 r	13 r
Machinery	333	206,671	31 r	82,425	35 r	124,246	28 r
Computer and electronic products	334	874,194	32	191,719	46	682,475	28
Semiconductor and other electronic components	3344	213,136	33 r	55,974	54 r	157,163	26 r
Navigational, measuring, electromedical, and control instruments	3345	454,887	36	104,711	40 r	350,177	35
Other computer and electronic products	other 334	206,170	21	31,035	53	175,135	15
Electrical equipment, appliances, and components	335	186,206	21	76,035 r	11 r	110,172 r	29 r
Transportation equipment	336	99,879	34	30,473	65	69,406	20
Aerospace products and parts	3364	29,152	45 r	8,770	88	20,382	26
Other transportation equipment	other 336	70,727	30	21,703 r	56	49,024	18
Furniture and related products	337	2,164	68 r	55 r	2,000 r	2,110 r	18
Miscellaneous manufacturing	339	258,937	56	114,740 r	75 r	144,197	41 r
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	11,922,660	45	5,219,336	43	6,703,324	46
Wholesale trade	42	677,836	21	121,911 r	29 r	555,926	19
Information	51	1,883,352	40	578,490	37	1,304,862	42
Software publishers	5112	1,382,671	39	392,245	39	990,426	39
Information, excluding software publishers	51 less 5112	500,681	44	186,245	33	314,436	50
Architectural, engineering, and related services	5413	2,265,778	27	866,339	28	1,399,439	26
Computer systems design and related services	5415	4,752,032	34	2,569,060	31	2,182,973	38
Scientific research and development services	5417	2,343,661	96	1,083,536	91	1,260,125	101
Research and development in nanotechnology	541713	158,222	109	78,764	81	79,459	137

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Research and development in biotechnology (except nanobiotechnology)	541714	678,671	128	340,728	124	337,943	132
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,472,335	81	641,371	75	830,965	85
Social sciences and humanities research and development	541720	23,832	51	12,074	63	11,758	38

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, 2022 Annual Business Survey: Data Year 2021.