

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: 2020

(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	13,337,245	42	5,905,752	43	7,431,493	42
Manufacturing industries	31–33	2,677,957	23	789,125	32	1,888,832	20
Food, beverage, and tobacco products	311–12	23,693	41 r	8,105	74 r	15,588 r	23 r
Textile, apparel, and leather products	313–16	664 r	71 r	664 r	71 r	0	0
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	0	0	0	0	0	0
Chemicals	325	783,535	20	312,780	22 r	470,755	19 r
Pharmaceuticals and medicines	3254	263,923	29 r	184,094 r	23 r	79,828	43
Chemicals, excluding pharmaceuticals	other 325	519,612	16 r	128,686	21	390,926	14 r
Plastics and rubber products	326	92,610	20 r	33,904	39	58,706 r	8
Nonmetallic mineral products	327	0	0	0	0	0	0
Primary metals	331	10,914 r	83 r	10,914 r	83 r	0	0
Fabricated metal products	332	85,393 r	44	1,827	20 r	83,567 r	44
Machinery	333	287,891	22	94,173	23 r	193,719	21
Computer and electronic products	334	1,014,015	19 r	195,882	40	818,134 r	14 r
Semiconductor and other electronic components	3344	146,316	25	50,973	40 r	95,342	17
Navigational, measuring, electromedical, and control instruments	3345	776,844 r	17 r	124,625	39	652,219 r	13 r
Other computer and electronic products	other 334	90,856	19	20,284	42 r	70,572	12 r
Electrical equipment, appliances, and components	335	156,305	16 r	60,939 r	35 r	95,366 r	4
Transportation equipment	336	74,792	51 r	28,516	40	46,276	58 r
Aerospace products and parts	3364	54,858	35	24,530	42	30,328	29
Other transportation equipment	other 336	19,934 r	95 r	3,986 r	26 r	15,947 r	112 r
Furniture and related products	337	580	21	0	0	580	21
Miscellaneous manufacturing	339	147,565	52 r	41,422	44 r	106,143	56 r
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	10,659,289	47	5,116,627	44	5,542,661	49
Wholesale trade	42	1,433,078	27 r	724,740 r	22 r	708,338 r	33 r
Information	51	2,196,608	31	1,171,158	25 r	1,025,450	39
Software publishers	5112	1,557,475	30 r	1,005,814 r	19 r	551,662	51
Information, excluding software publishers	51 less 5112	639,133	35	165,344	61	473,789	25
Architectural, engineering, and related services	5413	1,207,840	48	534,411	46	673,429	49

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Computer systems design and related services	5415	3,742,883	30	1,831,070	36	1,911,813	24
Scientific research and development services	5417	2,078,879	106	855,248	107	1,223,631	104
Research and development in nanotechnology	541713	168,322	97	58,636	120	109,686	85
Research and development in biotechnology (except nanobiotechnology)	541714	655,385	139	301,403	127	353,982	150 r
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,236,057	89	482,787	94	753,270	85
Social sciences and humanities research and development	541720	19,115	95	12,423 r	60 r	6,693 r	160 r

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, 2021 Annual Business Survey: Data Year 2020.