TABLE 12

Domestic sales and domestic R&D performed by the company as a percentage of domestic sales, by selected industry and company size, for companies with 1–9 employees: 2022

(Thousands of U.S. dollars and percent)

Industry		All companies				1-4 employees			5-9 employees	
	NAICS code	Total sales (\$thousands)	R	R&D as percentage of sales	s To	tal sales (\$thousands)		R&D as percentage of sales	Total sales (\$thousands)	R&D as percentage of sales
All selected industries	31-33, 42, 51, 5413, 5415, 5417	13,457,203		42		6,158,829		41	7,298,374	44
Manufacturing industries	31–33	1,778,853		39		669,257		33	1,109,595	42
Food, beverage, and tobacco products	311-12	43,398	r	40	r	8,985		77	34,413	r 31
Textile, apparel, and leather products	313-16	1,262	r	735	r	1,262	r	100	0	0
Wood products	321	0		0		0		0	0	0
Paper	322	1,033	r	87	r	0		0	1,033	r 87
Printing and related support activities	323	0		0		0		0	0	0
Petroleum and coal products	324	254		63		254		63	0	0
Chemicals	325	254,888		66		88,378		81	166,509	58
Pharmaceuticals and medicines	3254	101,394		124		21,279		244	80,116	92
Chemicals, excluding pharmaceuticals	other 325	153,493		28		67,099		30	86,394	27
Plastics and rubber products	326	160,154	r	9	r	136,703	r	5	23,451	35
Nonmetallic mineral products	327	7,008	r	51	r	182		101	6,827	r 50
Primary metals	331	7,572		42	r	5,433		41	2,139	45
Fabricated metal products	332	60,271	r	74	r	32,746	r	31	27,525	r 127
Machinery	333	97,566		45	r	66,158		25	31,409	89
Computer and electronic products	334	736,513		23		255,560		24	480,953	23
Semiconductor and other electronic components	3344	161,473		29	r	60,794		34	100,679	25
Navigational, measuring, electromedical, and control instruments	3345	446,621		21		123,512		24	323,109	20
Other computer and electronic products	other 334	128,419		24		71,254		14	57,165	36
Electrical equipment, appliances, and components	335	72,558		20		25,428		21	47,130	20
Transportation equipment	336	70,317		52		14,955		65	55,362	49
Aerospace products and parts	3364	36,764		54		7,812	r	75	28,952	49
Other transportation equipment	other 336	33,553		50		7,143	r	56	26,410	49
Furniture and related products	337	1,944		11		0		0	1,944	11
Miscellaneous manufacturing	339	264,117		62	r	33,215		98	230,901	57
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	11,678,351		43		5,489,572		42	6,188,779	44
Wholesale trade	42	1,025,414		30	r	485,588	r	31	539,826	29
Information	51	1,901,767		34		875,290		31	1,026,477	37
Software publishers	5112	1,265,726		38		542,483		33	723,243	42
Information, excluding software publishers	51 less 5112	636,041		28		332,807		28	303,234	27
Architectural, engineering, and related services	5413	1,104,971		35		657,966		26	447,005	48
Computer systems design and related services	5415	5,445,668		26		2,436,868		28	3,008,799	25
Scientific research and development services	5417	2,200,531		102		1,033,859		100	1,166,672	105
Research and development in nanotechnology	541713	146,178		94		61,858		97	84,319	92

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(Thousands of U.S. dollars and percent)

		All c	ompanies	1−4 €	mployees	5-9 employees	
Industry	NAICS code	Total sales (\$thousands)	R&D as percentage of sales	Total sales (\$thousands)	R&D as percentage of sales	Total sales (\$thousands)	R&D as percentage of sales
Research and development in biotechnology (except nanobiotechnology)	541714	653,428	155	340,191	142	313,238	168
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,360,356	80	616,435	78	743,922	81
Social sciences and humanities research and development	541720	40,569	49	15,376	67	25,193	38

r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

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, 2023 Annual Business Survey: Data Year 2022.