

TABLE 9-2

Domestic R&D performed by the company, by selected industry and source of funds, for companies with 1–4 employees: 2018

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Paid for by the company	Foreign owner	Another U.S. company	Other businesses outside the United States	U.S. university or college	U.S. nonprofit organization	U.S. federal government	U.S. state or local government	All other organizations outside the United States
All selected industries	31–33, 42, 51, 5413, 5415, 5417	1,890,728	1,408,768	65,659	109,838	18,875	3,956	7,552	263,610	11,321	1,149 r
Manufacturing industries	31–33	231,973	188,223	4,637 r	6,372	1,093	116 r	1,416 r	27,920	1,536 r	663 r
Food, beverage, and tobacco products	311–12	D	0	0	0	0	0	0	D	0	0
Textile, apparel, and leather products	313–16	D	D	0	0	0	0	0	0	0	0
Wood products	321	0	0	0	0	0	0	0	0	0	0
Paper	322	0	0	0	0	0	0	0	0	0	0
Printing and related support activities	323	D	D	0	0	0	0	0	0	0	0
Petroleum and coal products	324	0	0	0	0	0	0	0	0	0	0
Chemicals	325	47,522	42,282	D	399	D	D	D	1,640	0	D
Pharmaceuticals and medicines	3254	23,204	19,233	D	399	D	D	D	1,108 r	0	0
Chemicals, excluding pharmaceuticals	other 325	24,318 r	23,050 r	D	0	D	0	0	D	0	D
Plastics and rubber products	326	0	0	0	0	0	0	0	0	0	0
Nonmetallic mineral products	327	D	D	0	D	0	0	0	0	0	0
Primary metals	331	0	0	0	0	0	0	0	0	0	0
Fabricated metal products	332	D	D	0	0	0	0	0	D	0	0
Machinery	333	19,021	10,491 r	0	D	0	0	0	6,172 r	D	D
Computer and electronic products	334	87,587	74,132	D	2,246	D	D	D	7,168	278	D
Semiconductor and other electronic components	3344	17,009	14,502	D	D	0	D	D	1,531 r	D	0
Navigational, measuring, electromedical, and control instruments	3345	55,113	47,197	D	D	D	D	0	2,770	D	0
Other computer and electronic products	other 334	15,465	12,432	0	D	D	0	0	D	0	D
Electrical equipment, appliances, and components	335	12,096	7,905	0	D	0	0	0	D	0	0
Transportation equipment	336	6,185	5,718	0	0	0	0	0	D	0	0
Aerospace products and parts	3364	3,844	3,377	0	0	0	0	0	D	0	0
Other transportation equipment	other 336	D	D	0	0	0	0	0	0	0	0
Furniture and related products	337	0	0	0	0	0	0	0	0	0	0
Miscellaneous manufacturing	339	54,146	43,826	0	D	0	0	D	9,197 r	D	0
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	1,658,754	1,220,546	61,023	103,466	17,783	3,840	6,136	235,690	9,785	486 r
Wholesale trade	42	71,988	71,988	0	0	0	0	0	0	0	0
Information	51	165,875	148,960	2,801	3,370	D	D	0	8,680	D	D

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Software publishers	5112	117,048	104,832	1,930	2,531	D	D	0	6,365 r	D	D
Information, excluding software publishers	51, excluding 5112	48,827	44,128	D	D	0	D	0	2,315	0	0
Architectural, engineering, and related services	5413	228,243	152,348	0	44,346	12,688 r	D	D	17,443	D	0
Computer systems design and related services	5415	446,671	373,410	D	33,861	0	0	D	31,321 r	D	0
Scientific research and development services	5417	745,978	473,840	50,620 r	21,889	5,016	2,249	5,465	178,247	8,502	D
Research and development in nanotechnology	541713	119,572	85,648	D	2,528	D	D	D	30,519	385 r	D
Research and development in biotechnology (except nanobiotechnology)	541714	266,279	168,175	44,511 r	3,742	2,465 r	829	385 r	44,306	1,867 r	0
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	354,602	217,252	6,083	15,619	2,380	1,191	4,019 r	101,696	6,250	D
Social sciences and humanities research and development	541720	2,864	1,138 r	0	0	0	0	0	1,725 r	0	0

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.