

Table 3**Domestic R&D performed by the company, by selected industry and source of funds, for companies with 1–9 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	4,526,838	3,570,660	175,207	196,003	34,019	10,459	13,871	506,856	17,078	2,685 r
Manufacturing industries	31–33	555,676	485,450	16,203 r	9,378	1,325	168	3,459	36,435	2,515	744 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	859 r	859 r	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	D	D	0	0	0	D	0	0	0	0
Chemicals	325	86,272	70,652	9,990 r	734	902	D	D	2,273	D	D
Pharmaceuticals and medicines	3254	54,581	41,432	D	734	D	D	D	1,173 r	0	0
Chemicals, excluding pharmaceuticals	other 325	31,691	29,220	D	0	D	D	0	1,100	D	D
Plastics and rubber products	326	0	0	0	0	0	0	0	0	0	0
Nonmetallic mineral products	327	5,159 r	4,981 r	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	2,465 r	D	0	0	0	0	0	D	0	0
Machinery	333	42,431	30,360 r	D	D	0	0	0	8,259 r	D	D
Computer and electronic products	334	303,711	280,244	5,693	3,018	266 r	116 r	2,083 r	11,562	626	D
Semiconductor and other electronic components	3344	56,813	50,819	D	D	0	D	D	2,627	D	0
Navigational, measuring, electromedical, and control instruments	3345	200,704	186,974	D	2,251	D	D	D	6,067	459	D
Other computer and electronic products	other 334	46,194	42,451	0	732	D	0	0	D	0	D
Electrical equipment, appliances, and components	335	27,954	22,791	0	D	D	0	0	D	0	0
Transportation equipment	336	12,979	11,581	0	D	0	0	0	D	0	0
Aerospace products and parts	3364	10,181	8,783	0	D	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	69,921	58,982	D	D	0	0	D	9,197 r	D	0
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	3,971,162	3,085,210	159,004	186,625	32,694	10,291	10,412	470,422	14,563	1,941 r
Wholesale trade	42	183,533	153,989	D	0	0	0	0	D	0	0
Information	51	518,090	496,623	3,445	4,943	D	D	D	10,530	D	D
Software publishers	5112	368,288	354,181	2,574	2,702	D	D	0	7,327	D	D
Information, excluding software publishers	51 excluding 5112	149,801	142,442	D	2,241 r	0	D	D	3,203	0	0

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Architectural, engineering, and related services	5413	411,987	290,228	0	71,069 r	12,688 r	3,523 r	D	33,196	615 r	D
Computer systems design and related services	5415	1,037,581	899,993	11,450 r	58,946	D	D	D	65,678	D	0
Scientific research and development services	5417	1,819,972	1,244,377	140,577	51,667	19,315	5,622	8,657	335,006	13,190	1,562 r
Research and development in nanotechnology	541713	292,766	207,792	10,015 r	16,536	1,247 r	1,812 r	D	53,413	1,886 r	D
Research and development in biotechnology (except nanobiotechnology)	541714	656,579	471,921	61,395	9,869	10,268	1,218	385 r	95,997	4,116	D
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	841,697	546,569	67,492 r	25,262	7,167	2,592	4,171 r	181,144	7,188	D
Social sciences and humanities research and development	541720	12,008	8,585	0	0	0	0	0	3,424	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 four-digit industry classification. Industry classification is based on the 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.