

Table 2**Domestic R&D performed by the company, by selected industry and type of R&D, for companies with 1–9 employees: 2018**

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Basic research	Applied research	Development
All selected industries	31–33, 42, 51, 5413, 5415, 5417	4,526,838	224,480	1,365,493	2,936,865
Manufacturing industries	31–33	555,676	49,533	180,583	325,559
Food, beverage, and tobacco products	311–12	D	0	D	0
Textile, apparel, and leather products	313–16	859 r	0	859 r	0
Wood products	321	0	0	0	0
Paper	322	0	0	0	0
Printing and related support activities	323	D	0	D	D
Petroleum and coal products	324	D	D	D	D
Chemicals	325	86,272	4,385	33,276	48,611
Pharmaceuticals and medicines	3254	54,581	2,801	26,337	25,443
Chemicals, excluding pharmaceuticals	other 325	31,691	1,583	6,939	23,169 r
Plastics and rubber products	326	0	0	0	0
Nonmetallic mineral products	327	5,159 r	162 r	1,084 r	3,913 r
Primary metals	331	0	0	0	0
Fabricated metal products	332	2,465 r	D	D	918
Machinery	333	42,431	6,448 r	20,151	15,832
Computer and electronic products	334	303,711	26,553	93,347	183,811
Semiconductor and other electronic components	3344	56,813	1,943 r	18,177	36,692
Navigational, measuring, electromedical, and control instruments	3345	200,704	21,524 r	61,629	117,551
Other computer and electronic products	other 334	46,194	3,086	13,541	29,567
Electrical equipment, appliances, and components	335	27,954	2,031 r	7,613	18,310
Transportation equipment	336	12,979	256 r	3,591	9,132
Aerospace products and parts	3364	10,181	256 r	1,964	7,962
Other transportation equipment	other 336	D	0	D	D
Furniture and related products	337	0	0	0	0
Miscellaneous manufacturing	339	69,921	9,062	17,024 r	43,835
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	3,971,162	174,947	1,184,910	2,611,305
Wholesale trade	42	183,533	6,546	31,199 r	145,788
Information	51	518,090	25,486	105,320	387,284
Software publishers	5112	368,288	16,822	77,207	274,260
Information, excluding software publishers	51 excluding 5112	149,801	8,664	28,113	113,025
Architectural, engineering, and related services	5413	411,987	15,960	119,239	276,788
Computer systems design and related services	5415	1,037,581	57,312	237,917	742,352
Scientific research and development services	5417	1,819,972	69,643	691,236	1,059,093
Research and development in nanotechnology	541713	292,766	9,149	111,002	172,615
Research and development in biotechnology (except nanobiotechnology)	541714	656,579	22,146	227,757	406,676
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	841,697	36,854	337,943	466,900
Social sciences and humanities research and development	541720	12,008	D	6,631	4,149

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.