

TABLE 12-1

Domestic R&D performed by the company, by selected industry and source of funds, for companies with 1–9 employees: 2019

(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	5,218,911	4,109,445	114,719	211,608	22,991	12,065	9,387	712,053	22,908	3,736
Manufacturing industries	31–33	622,220	525,012	24,975	15,484	423	821	695	53,506	1,191	113
Food, beverage, and tobacco products	311–12	5,896	4,140	0	1,099	0	417	0	71	168	0
Textile, apparel, and leather products	313–16	236	236	0	0	0	0	0	0	0	0
Wood products	321	4,065	4,065	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	555	555	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	178,170	149,053	0	3,045	106	127	40	25,452	346	0
Pharmaceuticals and medicines	3254	117,508	101,816	0	865	0	90	40	14,493	204	0
Chemicals, excluding pharmaceuticals	other 325	60,661	47,237	0	2,180	106	38	0	10,959	142	0
Plastics and rubber products	326	6,261	6,160	0	33	0	0	0	69	0	0
Nonmetallic mineral products	327	5,860	21	5,644	195	0	0	0	0	0	0
Primary metals	331	2,353	2,353	0	0	0	0	0	0	0	0
Fabricated metal products	332	20,518	20,518	0	0	0	0	0	0	0	0
Machinery	333	22,057	15,236	719	1,335	0	0	0	4,379	388	0
Computer and electronic products	334	227,158	186,392	18,612	3,161	317	261	655	17,494	153	113
Semiconductor and other electronic components	3344	38,305	26,901	5,888	1,480	32	1	0	3,920	82	0
Navigational, measuring, electromedical, and control instruments	3345	161,373	134,114	12,723	1,363	30	260	655	12,043	71	113
Other computer and electronic products	other 334	27,480	25,377	0	318	254	0	0	1,531	0	0
Electrical equipment, appliances, and components	335	9,592	6,970	0	0	0	0	0	2,622	0	0
Transportation equipment	336	24,577	21,408	0	1,513	0	0	0	1,520	135	0
Aerospace products and parts	3364	11,859	9,164	0	1,324	0	0	0	1,236	135	0
Other transportation equipment	other 336	12,718	12,244	0	190	0	0	0	285	0	0
Furniture and related products	337	0	0	0	0	0	0	0	0	0	0
Miscellaneous manufacturing	339	114,922	107,903	0	5,104	0	14	0	1,900	0	0
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	4,596,691	3,584,433	89,744	196,124	22,568	11,244	8,692	658,546	21,717	3,622
Wholesale trade	42	225,813	202,430	10,287	12,117	0	0	0	524	454	0
Information	51	598,684	560,895	4,033	20,906	0	1,578	0	10,136	660	475

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Software publishers	5112	327,921	312,513	4,033 r	2,059 r	0	0	0	8,610	230 r	475 r
Information, excluding software publishers	51 less 5112	270,764	248,382	0	18,847	0	1,578 r	0	1,526	430 r	0
Architectural, engineering, and related services	5413	454,913	321,235	12,905 r	44,862	2,850	1,789 r	54 r	70,383	266 r	570 r
Computer systems design and related services	5415	1,435,159	1,332,829	393 r	38,593	5,930 r	2,884	2,375 r	52,124	31 r	0
Scientific research and development services	5417	1,882,122	1,167,044	62,125	79,645	13,789	4,993	6,263	525,380	20,307	2,577
Research and development in nanotechnology	541713	175,639	130,833	6,111	8,800	851	1,730	76 r	26,345	894 r	0
Research and development in biotechnology (except nanobiotechnology)	541714	645,887	465,202	25,382	20,196 r	4,926	131	4,540	120,789	4,480	241
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,026,911	558,406	30,632	38,721	8,011	3,075	1,646	369,150	14,933	2,336
Social sciences and humanities research and development	541720	31,464	10,764	0	11,547 r	0	57 r	0	9,096	0	0

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, 2020 Annual Business Survey: Data Year 2019.