

TABLE 12-2

Domestic R&D performed by the company, by selected industry and source of funds, for companies with 1–4 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	2,350,322	1,868,086	50,600	122,427	9,628	4,702	4,244	276,329	13,349	956
Manufacturing industries	31–33	271,171	230,050	13,443	3,389	114	140	60	23,358	559	58
Food, beverage, and tobacco products	311–12	4,038	3,445	0	353	0	0	0	71	168	0
Textile, apparel, and leather products	313–16	236	236	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	141	141	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	87,050	78,716	0	256	106	0	40	7,626	306	0
Pharmaceuticals and medicines	3254	56,251	49,595	0	99	0	0	40	6,351	164	0
Chemicals, excluding pharmaceuticals	other 325	30,800	29,121	0	157	106	0	0	1,274	142	0
Plastics and rubber products	326	3,204	3,136	0	0	0	0	0	69	0	0
Nonmetallic mineral products	327	216	21	0	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	9,874	9,874	0	0	0	0	0	0	0	0
Machinery	333	12,952	8,224	719	1,131	0	0	0	2,879	0	0
Computer and electronic products	334	102,331	80,313	12,723	1,106	8	126	20	7,892	85	58
Semiconductor and other electronic components	3344	21,093	18,368	0	271	0	1	0	2,439	14	0
Navigational, measuring, electromedical, and control instruments	3345	76,986	58,501	12,723	835	8	124	20	4,644	71	58
Other computer and electronic products	other 334	4,252	3,444	0	0	0	0	0	808	0	0
Electrical equipment, appliances, and components	335	6,210	4,252	0	0	0	0	0	1,958	0	0
Transportation equipment	336	18,393	17,080	0	348	0	0	0	965	0	0
Aerospace products and parts	3364	6,673	5,360	0	348	0	0	0	965	0	0
Other transportation equipment	other 336	11,719	11,719	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	24,172	22,258	0	0	0	14	0	1,900	0	0
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	2,079,151	1,638,037	37,157	119,037	9,514	4,562	4,184	252,972	12,790	898
Wholesale trade	42	82,960	64,329	6,060	12,117	0	0	0	0	454	0
Information	51	269,355	247,180	3,251	12,723	0	0	0	5,541	660	0

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Software publishers	5112	178,911	168,694	3,251 r	2,056 r	0	0	0	4,680	230 r	0
Information, excluding software publishers	51 less 5112	90,445	78,486	0	10,667	0	0	0	861 r	430 r	0
Architectural, engineering, and related services	5413	280,469	215,269	4,412 r	26,369	243 r	83 r	0	33,473	50 r	570 r
Computer systems design and related services	5415	702,687	632,276	112 r	33,495	5,930 r	1,732 r	2,375 r	26,736 r	31 r	0
Scientific research and development services	5417	743,679	478,982	23,322	34,333	3,342	2,748	1,809	187,222	11,595	327
Research and development in nanotechnology	541713	86,246	61,938 r	1,144 r	3,975	132	1,008	0	17,180	869 r	0
Research and development in biotechnology (except nanobiotechnology)	541714	261,812	177,344	10,160 r	18,129 r	2,602	85	637	50,382	2,464	9 r
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	383,781	235,293	12,017	11,657	608	1,597	1,172	112,856	8,263	318
Social sciences and humanities research and development	541720	9,619	2,568	0	191 r	0	57 r	0	6,803 r	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.