

TABLE 11

## Total number of workers for R&amp;D-performing companies with 1–4 employees, by industry: 2016

(Number)

Industry	NAICS code	Owners (who receive a W-2)	Owners (who do not receive a W-2)	Employees (who are not considered owners)	Contractors	Unpaid workers
All industries	21–23, 31–33, 42–81	46,400	26,916	47,786	74,930	10,120
Manufacturing industries	31–33	4,415	4,582	8,044	6,810	1,309
Food	311	0	s	s	s	0
Beverages and tobacco products	312	0	s	s	s	0
Textiles, apparel, and leather products	313–16	s	s	s	0	s
Wood products	321	s	s	s	s	s
Paper	322	0	0	0	0	0
Printing and related support activities	323	s	s	s	s	s
Petroleum and coal products	324	s	0	s	s	0
Chemicals	325	449	756	853	831	121
Basic chemicals	3251	s	s	s	s	0
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	22	21	46	12	3
Pesticides, fertilizers, and other agricultural chemicals	3253	D	0	D	4	D
Pharmaceuticals and medicines	3254	116	369	233	398	47
Soaps, cleaning compounds, and toilet preparations	3256	s	s	266	s	s
Paints, coatings, adhesives, and other chemicals	3255, 3259	D	205	D	230	D
Plastics and rubber products	326	s	s	s	s	s
Nonmetallic mineral products	327	s	s	s	s	0
Primary metals	331	0	0	s	s	s
Fabricated metal products	332	661	270	969	459	0
Machinery	333	782	648	1,299	991	126
Agricultural implements	33311	0	s	s	s	0
Semiconductor machinery	333242	s	5	s	s	0
Engines, turbines, and power transmission equipment	3336	0	s	s	s	s
Other machinery	other 333	711	s	818	450	105
Computer and electronic products	334	918	632	1,227	1,530	187
Communications equipment	3342	90	48	109	63	13
Semiconductors and other electronic components	3344	248	107	218	283	38
Navigational, measuring, electromedical, and control instruments	3345	393	329	583	733	71
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	62	80	110	200	10
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	26	39	39	40	D
Other measuring and controlling devices	other 3345	306	210	434	494	D
Other computer and electronic products	other 334	187	148	317	452	65
Electrical equipment, appliances, and components	335	222	186	290	250	57
Transportation equipment	336	274	188	460	s	s
Automobiles, bodies, trailers, and parts	3361–63	243	s	s	s	0
Aerospace products and parts	3364	D	D	D	D	0

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Aircraft, aircraft engines, and aircraft parts	336411–13	D	0	D	D	0
Guided missiles, space vehicles, and related parts	336414–15, 336419	D	D	D	D	0
Military armored vehicles, tanks, and tank components	336992	3	0	D	13	0
Other transportation	other 336	D	D	D	D	26
Furniture and related products	337	s	s	s	s	0
Miscellaneous	339	681	1,113	1,680	919	342
Medical equipment and supplies	3391	332	332	712	s	s
Other miscellaneous manufacturing	3399	349	780	968	511	215
Nonmanufacturing industries	21–23, 42–81	41,985	22,334	39,743	68,120	8,811
Mining, extraction, and support activities	21	s	s	s	s	0
Utilities	22	s	s	s	0	D
Wholesale trade	42	5,591	3,682	7,523	8,609	1,347
Electronic shopping and electronic auctions	454111–12	720	270	1,170	1,408	s
Transportation and warehousing	48–49	s	s	s	s	0
Information	51	2,034	2,083	2,266	5,605	654
Publishing	511	683	663	822	1,294	154
Newspaper, periodical, book, and directory publishers	5111	0	0	0	0	0
Software publishers	5112	683	663	822	1,294	154
Telecommunications	517	s	s	s	s	s
Data processing, hosting, and related services	518	597	s	392	892	s
Other information	other 51	621	620	820	3,219	225
Finance and insurance	52	s	s	184	s	D
Real estate and rental and leasing	53	s	0	s	s	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	0	s	0	0
Other real estate and rental and leasing	other 53	s	0	0	s	0
Professional, scientific, and technical services	54	32,941	15,585	27,227	50,514	6,424
Architectural, engineering, and related services	5413	4,999	965	4,638	5,935	945
Computer systems design and related services	5415	12,794	4,847	10,561	17,869	2,402
Scientific research and development services	5417	2,433	3,726	3,182	5,199	618
Biotechnology research and development	541711	726	1,728	1,004	1,789	212
Physical, engineering, and life sciences (except biotechnology) research and development	541712	1,543	1,934	1,997	3,094	364
Social sciences and humanities research and development	541720	164	64	182	317	42
Other professional, scientific, and technical services	other 54	12,715	6,047	8,845	21,510	2,460
Health care services	621–23	169	195	386	s	s

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Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	s	s	s	s		0

D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse; s = suppressed for reliability; standard error exceeds publication standards.

NAICS = 2012 North American Industry Classification System.

**Note(s)**

Detail may not add to total because of rounding. Industry classification based on sample NAICS code. Statistics are representative of companies located in the United States that performed or funded R&D.

**Source(s)**

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Microbusiness R&D and Innovation Survey, 2016.