

TABLE 51. Domestic R&D employment, by occupation, industry, and company size: 2014
(Thousands)

Industry and company size	NAICS code	Total	R&D scientists and engineers and their managers	R&D technicians and technologists	R&D support staff (clerical and others)
All industries	21–23, 31–33, 42–81	1,514	1,060	295	158
Manufacturing industries	31–33	914	653	161	101
Food	311	25	15 i	5	4
Beverages and tobacco products	312	4	2	1	1
Textiles, apparel, and leather products	313–16	7	3	3	1 i
Wood products	321	4 i	2 i	1 i	1 i
Paper	322	8	4	3 i	*
Printing and related support activities	323	4	2	1	1 i
Petroleum and coal products	324	2	1	1	* i
Chemicals	325	172	118	31	24
Basic chemicals	3251	15	9	5	2
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	6	4	2	1
Pesticides, fertilizers, and other agricultural chemicals	3253	6 i	4 i	2 i	* i
Pharmaceuticals and medicines	3254	122	85	19	19
Soaps, cleaning compounds, and toilet preparations	3256	12	10	1	1
Paints, coatings, adhesives, and other chemicals	3255, 3259	11	7	3	1
Plastics and rubber products	326	26	15	8 i	3 i
Nonmetallic mineral products	327	9	5 i	3 i	1
Primary metals	331	7	3	2 i	2
Fabricated metal products	332	32	14 i	10 i	8 i
Machinery	333	75	52	17	6
Agricultural implements	33311	10	7	2	1
Semiconductor machinery	333295	8	6	1 i	*
Engines, turbines, and power transmission equipment	3336	12	10	1	1
Other machinery	other 333	46	29 i	13 i	4 i
Computer and electronic products	334	273	221	32	20 i
Communications equipment	3342	59	50 i	6	3
Semiconductors and other electronic components	3344	107	90	8 i	9 i
Navigational, measuring, electromedical, and control instruments	3345	74	55	13	6
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	14	10	3 i	1
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	33	25	5	2
Other measuring and controlling devices	other 3345	26	19	5	2 i
Other computer and electronic products	other 334	33	26 i	4 i	3 i
Electrical equipment, appliances, and components	335	33	22	8 i	2
Transportation equipment	336	167	129	22	17
Automobiles, bodies, trailers, and parts	3361–63	94	72	13	9
Aerospace products and parts	3364	61	49	6	6
Aircraft, aircraft engines, and aircraft parts	336411–13	56	45	6	5

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Guided missiles, space vehicles, and related parts	336414-15, 336419	5 i	4 i	*	*
Military armored vehicles, tanks, and tank components	336992	*	* i	* i	*
Other transportation	other 336	12 i	7 i	2 i	3 i
Furniture and related products	337	5	3 i	2 i	1 i
Miscellaneous manufacturing	339	64	44	12	8
Medical equipment and supplies	3391	43	31	8	4
Other miscellaneous manufacturing	3399	20	13 i	4 i	4 i
Nonmanufacturing industries	21-23, 42-81	600	407	135	58
Mining, extraction, and support activities	21	16	9	5 i	2
Utilities	22	2	1	1	*
Wholesale trade	42	7	4 i	1 i	2 i
Electronic shopping and electronic auctions	454111-12	7	4	2	2
Transportation and warehousing	48-49	3 i	1 i	* i	1 i
Information	51	296	220	54	22
Publishing	511	164	131	17	15
Newspaper, periodical, book, and directory publishers	5111	1	* i	1 i	* i
Software publishers	5112	163	131	16	15
Telecommunications	517	30	21 i	8 i	1
Data processing, hosting, and related services	518	57	34	18	5 i
Other information	other 51	46	34	11	1
Finance and insurance	52	24	7	13	3
Real estate and rental and leasing	53	2	1	* i	* i
Lessors of nonfinancial intangible assets (except copyrighted works)	533	*	*	* j	*
Other real estate and rental and leasing	other 53	2	1	* i	* i
Professional, scientific, and technical services	54	223	150 i	51 i	22 i
Architectural, engineering, and related services	5413	45	29 i	9 i	6 i
Computer systems design and related services	5415	77	59 i	12 i	6 i
Scientific R&D services	5417	71	41	22	8 i
Biotechnology R&D	541711	15	12	3	1 i
Physical, engineering, and life sciences (except biotechnology) R&D	541712	50	29	16	5
Social sciences and humanities R&D	541720	6	* i	3 i	2 i
Other professional, scientific, and technical services	other 54	30	20 i	8 i	2 i
Health care services	621-23	5	2 i	3 i	*
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	15	7 i	4 i	4 i

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Industry and company size	NAICS code	Total	R&D scientists and engineers and their managers	R&D technicians and technologists	R&D support staff (clerical and others)
All companies (number of domestic employees)	-	1,514	1,060	295	158
Small companies ^a					
5-499	-	419	272 i	99 i	48 i
5-99	-	242	162 i	54 i	27 i
5-49	-	161	110 i	33 i	18 i
5-9	-	27	19 i	5 i	3 i
10-24	-	66	45 i	13 i	7 i
25-49	-	69	46 i	15 i	8 i
50-99	-	81	52 i	20 i	9 i
100-249	-	100	62 i	26 i	13 i
250-499	-	76	48	19	9
Medium and large companies					
500-999	-	70	47	17	7
1,000-4,999	-	254	174	52	28
5,000-9,999	-	150	104	30	16
10,000-24,999	-	219	152	43	23
25,000 or more	-	403	312	55	37

* = amount < 500; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

NOTES: Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed or funded R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2014.