

TABLE 48. Domestic R&D employment, by occupation, industry, and company size: 2012
(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	1,469	1,004	303	162 i
Manufacturing industries	31–33	886	621	174	91
Food	311	24	15	7 i	3
Beverage and tobacco products	312	3	2	1	*
Textile, apparel, and leather products	313–16	7	2 i	4 i	1
Wood products	321	8 i	1	5 i	1
Paper	322	7	4	3	*
Printing and related support activities	323	4	1 i	3 i	* i
Petroleum and coal products	324	4	3	1	1
Chemicals	325	162	106	33	23
Basic chemicals	3251	15	8	6	1
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	6	3	2	1
Pesticide, fertilizer, and other agricultural chemical	3253	6	4	2	1
Pharmaceuticals and medicines	3254	114	76	20	18
Soap, cleaning compound, and toilet preparation	3256	11	9	1	1
Paint, coating, adhesive, and other chemicals	3255, 3259	10	6	2	1
Plastics and rubber products	326	30	17 i	11 i	2
Nonmetallic mineral products	327	8	5	3	1
Primary metals	331	7	2	3 i	1
Fabricated metal products	332	31	13 i	12 i	6 i
Machinery	333	89	64	17	7
Agricultural implement	33311	8	7	1	*
Semiconductor machinery	333295	7	5	1	1
Engine, turbine, and power transmission equipment	3336	24	19	4	1
Other machinery	other 333	50	33 i	11 i	5 i
Computer and electronic products	334	267	214	32	21
Communications equipment	3342	53	44	5	4
Semiconductor and other electronic components	3344	101	81	11 i	9 i
Navigational, measuring, electromedical, and control instruments	3345	76	57	14 i	6 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	22	16	5 i	1
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	30	23	5	3 i
Other measuring and controlling device	other 3345	24	18 i	3 i	2
Other computer and electronic products	other 334	37	32 i	3	3
Electrical equipment, appliances, and components	335	25	18	5	3 i
Transportation equipment	336	147	113	20	15 i
Automobiles, bodies, trailers, and parts	3361–63	64	50	9	5
Aerospace products and parts	3364	73	58 i	8	6 i
Aircraft, aircraft engine, and aircraft parts	336411–13	68 i	54 i	8	6 i
Guided missile, space vehicle, and related parts	336414–15, 336419	5	5	*	*
Military armored vehicle, tank, and tank component	336992	*	*	*	*

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Other transportation	other 336	10	5 i	2 i	3 i
Furniture and related products	337	5	2 i	2 i	*
Miscellaneous manufacturing	339	57	38	13	6
Medical equipment and supplies	3391	40	28	9	4
Other miscellaneous manufacturing	3399	17	10	4	2
Nonmanufacturing industries	21-23, 42-81	583	383 i	129 i	71 i
Mining, extraction, and support activities	21	9	6	2	1 i
Utilities	22	2	1	*	* i
Wholesale trade	42	25 i	12 i	8 i	5 i
Electronic shopping and electronic auctions	454111-12	9	1	5	3 i
Transportation and warehousing	48-49	3	1 i	1	2 i
Information	51	225	175	36	14
Publishing	511	148	123	13	11 i
Newspaper, periodical, book, and directory publishers	5111	2 i	1 i	* i	1 i
Software publishers	5112	146	123	13	10
Telecommunications	517	13 i	10 i	3 i	1 i
Data processing, hosting, and related services	518	33	18	13 i	1
Other information	other 51	31	23	7	1
Finance and insurance	52	26	10	14	2
Real estate and rental and leasing	53	1	1	* i	*
Lessors of nonfinancial intangible assets (except copyrighted works)	533	1	1	*	*
Other real estate and rental and leasing	other 53	1 i	* i	* i	* i
Professional, scientific, and technical services	54	248	157 i	56 i	35 i
Architectural, engineering, and related services	5413	39	29 i	7 i	3 i
Computer systems design and related services	5415	101	68 i	20 i	13 i
Scientific research and development services	5417	75	38	22	15
Biotechnology research and development	541711	25	17	5	2
Physical, engineering, and life sciences (except biotechnology) research and development	541712	46	21	15	11
Social sciences and humanities research and development	541720	4	1	2 i	1 i
Other professional, scientific, and technical services	other 54	33	22 i	7 i	4 i
Health care services	621-23	6	4 i	1 i	2 i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	28	15	6 i	7 i
All companies (number of domestic employees)	-	1,469	1,004	303	162 i
Small companies ^a					
5-499	-	437	263 i	115 i	60 i
5-99	-	258	158 i	63 i	38 i
5-49	-	181	111 i	43 i	27 i
5-9	-	38	23 i	7 i	8 i
10-24	-	73	46 i	17 i	10 i
25-49	-	70	42 i	20 i	9 i

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50-99	-	77	47 i	19 i	10 i
100-249	-	101	58 i	31 i	12 i
250-499	-	79	48	21 i	10
Medium and large companies					
500-999	-	67	43	17	8
1,000-4,999	-	226	154	48	25
5,000-9,999	-	138	93	26	20
10,000-24,999	-	198	136	43	19
25,000 or more	-	401	314	55	32

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

NAICS = 2007 North American Industry Classification System.

^a The 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. The 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, 2012.