

TABLE 35. Domestic R&D employment, by occupation, industry, and company size: 2011
(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	1,471	1,003	308	160
Manufacturing industries	31–33	865	603	163	99
Food	311	29	15 i	7	7
Beverage and tobacco products	312	4	2	1	1
Textile, apparel, and leather products	313–316	7	3	3	1
Wood products	321	3	2	1	1
Paper	322	9	7	1	1
Printing and related support activities	323	3	1	1	1
Petroleum and coal products	324	5	3	1	1
Chemicals	325	160	105	33	22
Basic chemicals	3251	18	11	5	1
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	6	3	2	1
Pesticide, fertilizer, and other agricultural chemical	3253	6	4	1	*
Pharmaceuticals and medicines	3254	107	71	20	17
Soap, cleaning compound, and toilet preparation	3256	14	10	3	2
Paint, coating, adhesive, and other chemicals	3255, 3259	10	7	2	1
Plastics and rubber products	326	22	12	7	4
Nonmetallic mineral products	327	8	5	3	1
Primary metals	331	6	3	2	1
Fabricated metal products	332	31	15	11	5
Machinery	333	88	63	17	8
Agricultural implement	33311	7	6	1	*
Semiconductor machinery	333295	7	5	1	*
Engine, turbine, and power transmission equipment	3336	25	20	3	2
Other machinery	other 333	49	32	12	5
Computer and electronic products	334	258	203	34	21
Communications equipment	3342	52	42	7	4
Semiconductor and other electronic components	3344	87	68	11	8
Navigational, measuring, electromedical, and control instruments	3345	74	55	13	6
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	22	16	5 i	1
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	31	23	4	3
Other measuring and controlling device	other 3345	21	15	4	2
Other computer and electronic products	other 334	45	38	3	3
Electrical equipment, appliances, and components	335	29	21	6	2
Transportation equipment	336	145	110	20	15
Motor vehicles, bodies, trailers, and parts	3361, 3362, 3363	61	42	11	8
Aerospace products and parts	3364	72	61 i	6	5 i
Aircraft, aircraft engine, and aircraft parts	336411–13	67 i	56 i	6	5 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 equipment	other 336	11	7	2	2 i
Furniture and related products	337	4	2	1	1
Miscellaneous manufacturing	339	54	33	15	7
Medical equipment and supplies	3391	33	21	7	5
Other miscellaneous manufacturing	3399	21	11	8	2
Nonmanufacturing industries	21–23, 42–81	606	400	145	61
Mining, extraction, and support activities	21	11	7	3	1
Utilities	22	2	1	1	*
Wholesale trade	42	16 i	9 i	5	3 i
Electronic shopping and electronic auctions	454111–12	4	1	2 i	1 i
Transportation and warehousing	48–49	1	1	*	*
Information	51	232	178	36	18
Publishing	511	147	116	16	15
Newspaper, periodical, book, and directory publishers	5111	4	3 i	*	1
Software publishers	5112	143	113	16	14
Telecommunications	517	22 i	19 i	2 i	1 i
Data processing, hosting, and related services	518	33	21	11	1
Other information	other 51	30	22	7	1
Finance and insurance	52	26	10	11	5
Real estate and rental and leasing	53	1	1	*	*
Lessors of nonfinancial intangible assets (except copyrighted works)	533	1	1	*	*
Other real estate and rental and leasing	other 53	*	*	*	*
Professional, scientific, and technical services	54	270	171	73	26
Architectural, engineering, and related services	5413	62	48	10	4
Computer systems design and related services	5415	103	63	33	7
Scientific research and development services	5417	73	40	20	13
Biotechnology research and development	541711	20	11	6	3
Physical, engineering, and life sciences (except biotechnology) research and development	541712	49	29	11	10
Social sciences and humanities research and development	541720	4	1	3 i	*
Other professional, scientific, and technical services	other 54	33	19	11	3
Health care services	621–23	9	4	3	1
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	33	17	11	5
All companies (number of domestic employees)	–	1,471	1,003	308	160
Small companies ^a					
5–499	–	481	291	131	60
5–99	–	274	165	76	32
5–49	–	189	116	51	21
5–9	–	37	23	10	4

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10-24	-	74	48	19	7
25-49	-	77	45	22	10
50-99	-	86	50	25	11
100-249	-	113	70	29	14
250-499	-	94	56	25	13
Medium and large companies					
500-999	-	61	36	16	9
1,000-4,999	-	233	154	53	25
5,000-9,999	-	113	76	19	18
10,000-24,999	-	204	143	40	20
25,000 or more	-	379	302	49	28

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

NAICS = 2007 North American Industry Classification System.

^a Upper bound based on U.S. Small Business Administration's definition of a small business; 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 based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, 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, 2011.