

TABLE 49. Foreign 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	597	432	104	61
Manufacturing industries	31-33	375	284	54	37
Food	311	8	5	2	1
Beverage and tobacco products	312	3	1	1	1
Textile, apparel, and leather products	313-16	1	*	*	*
Wood products	321	*	*	*	*
Paper	322	1	1	*	*
Printing and related support activities	323	*	*	*	*
Petroleum and coal products	324	1	1	*	*
Chemicals	325	58	35	11	12
Basic chemicals	3251	5	3	2	*
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	3	2	1	*
Pesticide, fertilizer, and other agricultural chemical	3253	2	1	*	*
Pharmaceuticals and medicines	3254	36	20	6	10
Soap, cleaning compound, and toilet preparation	3256	7	6	*	1
Paint, coating, adhesive, and other chemicals	3255, 3259	5	3	1	1
Plastics and rubber products	326	6	4	2	1 i
Nonmetallic mineral products	327	4	2 i	2	1
Primary metals	331	*	*	*	*
Fabricated metal products	332	2	1	*	*
Machinery	333	43	36	5	2
Agricultural implement	33311	5	4	*	*
Semiconductor machinery	333295	2	1	*	*
Engine, turbine, and power transmission equipment	3336	18	16	1	1
Other machinery	other 333	18	14	3	1
Computer and electronic products	334	158	127 i	18 i	13
Communications equipment	3342	26	22	3	1
Semiconductor and other electronic components	3344	75	56	10 i	8
Navigational, measuring, electromedical, and control instruments	3345	22	17 i	4 i	2 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	4	3	1 i	* i
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	3	2	*	*
Other measuring and controlling device	other 3345	16	12 i	3 i	1 i
Other computer and electronic products	other 334	36	32 i	2	2
Electrical equipment, appliances, and components	335	17	13	3	1
Transportation equipment	336	55	46	6	3
Automobiles, bodies, trailers, and parts	3361-63	46	38	5	2 i
Aerospace products and parts	3364	9	7	1	1
Aircraft, aircraft engine, and aircraft parts	336411-13	9	7	1	1
Guided missile, space vehicle, and related parts	336414-15, 336419	*	*	*	0
Military armored vehicle, tank, and tank component	336992	0	0	0	0
Other transportation	other 336	1	*	*	* i

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Furniture and related products	337	*	* i	*	*
Miscellaneous manufacturing	339	18	14	3	2
Medical equipment and supplies	3391	12	9	2	1
Other miscellaneous manufacturing	3399	6	5	1	*
Nonmanufacturing industries	21–23, 42–81	222	147 i	50 i	24
Mining, extraction, and support activities	21	3	2 i	1 i	1 i
Utilities	22	*	*	*	*
Wholesale trade	42	2 i	1 i	* i	* i
Electronic shopping and electronic auctions	454111–12	2	* i	2	* i
Transportation and warehousing	48–49	*	* i	0	* i
Information	51	100	83	8	9
Publishing	511	85	72	5	8
Newspaper, periodical, book, and directory publishers	5111	* i	* i	* i	* i
Software publishers	5112	85	72	5	8
Telecommunications	517	1	1	* i	* i
Data processing, hosting, and related services	518	8	5	2	1
Other information	other 51	6	5	1	1
Finance and insurance	52	5	1	3	*
Real estate and rental and leasing	53	*	*	*	*
Lessors of nonfinancial intangible assets (except copyrighted works)	533	*	*	*	*
Other real estate and rental and leasing	other 53	*	* i	0	0
Professional, scientific, and technical services	54	105 i	56 i	35 i	14
Architectural, engineering, and related services	5413	3	3	*	* i
Computer systems design and related services	5415	61 i	39 i	17 i	5 i
Scientific research and development services	5417	32	9	15	8
Biotechnology research and development	541711	7	6	1	*
Physical, engineering, and life sciences (except biotechnology) research and development	541712	26	3	14	8
Social sciences and humanities research and development	541720	*	* i	* i	* i
Other professional, scientific, and technical services	other 54	8 i	5 i	2 i	1 i
Health care services	621–23	* i	* i	* i	* i
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	3	2	1	*
All companies (number of domestic employees)	–	597	432	104	61
Small companies <sup>a</sup>					
5–499	–	57	41 i	10	7 i
5–99	–	28	21 i	5 i	3 i
5–49	–	19	14 i	3 i	2 i
5–9	–	4	3 i	* i	* i
10–24	–	3	2 i	1	*
25–49	–	13	10 i	2 i	2 i
50–99	–	9	6	2	1

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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)
100-249	-	15	10	3	3
250-499	-	14	11	2	1
Medium and large companies					
500-999	-	16	11	3	2
1,000-4,999	-	108	82	19	7
5,000-9,999	-	109	65	25	19
10,000-24,999	-	65	42	15	8
25,000 or more	-	242	191	33 i	18

\* = 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.

<sup>a</sup> 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.