

TABLE 36. Foreign 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	554	395	95	65
Manufacturing industries	31–33	345	254	54	37
Food	311	7	5	1	1
Beverage and tobacco products	312	2	1	*	*
Textile, apparel, and leather products	313–316	1	*	*	*
Wood products	321	*	*	*	*
Paper	322	5	4	1	*
Printing and related support activities	323	*	*	*	*
Petroleum and coal products	324	1	1	*	*
Chemicals	325	65	39	14	11
Basic chemicals	3251	9	6	2	1
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	3	1	1	*
Pesticide, fertilizer, and other agricultural chemical	3253	2	1	1	*
Pharmaceuticals and medicines	3254	40	23	8	9
Soap, cleaning compound, and toilet preparation	3256	7	6	1	1
Paint, coating, adhesive, and other chemicals	3255, 3259	5	3	1	*
Plastics and rubber products	326	3	2	1 i	*
Nonmetallic mineral products	327	4	2 i	2	*
Primary metals	331	1	1	*	*
Fabricated metal products	332	2	1	*	*
Machinery	333	33	27	4	2
Agricultural implement	33311	2	2	*	0
Semiconductor machinery	333295	2	2	*	*
Engine, turbine, and power transmission equipment	3336	D	D	1	*
Other machinery	other 333	D	D	3	1
Computer and electronic products	334	133	101	16	16
Communications equipment	3342	27	21	5	1
Semiconductor and other electronic components	3344	66	49	7	11
Navigational, measuring, electromedical, and control instruments	3345	17	12	3 i	2
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	3	3	1 i	* i
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	3	2	*	*
Other measuring and controlling device	other 3345	11	7	2 i	1
Other computer and electronic products	other 334	23	20 i	2	2
Electrical equipment, appliances, and components	335	24	18	4	1 i
Transportation equipment	336	53	43	7	3
Motor vehicles, bodies, trailers, and parts	3361, 3362, 3363	44	36	5	3
Aerospace products and parts	3364	7	6	1	1
Aircraft, aircraft engine, and aircraft parts	336411–13	7	6	1	1
Guided missile, space vehicle, and related parts	336414–15, 336419	*	*	*	0

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Military armored vehicle, tank, and tank component	336992	0	0	0	0
Other transportation equipment	other 336	1	*	1	* i
Furniture and related products	337	*	*	*	*
Miscellaneous manufacturing	339	12	8	2	1
Medical equipment and supplies	3391	6	4	1	1
Other miscellaneous manufacturing	3399	6	4 i	1	*
Nonmanufacturing industries	21-23, 42-81	209	141	41	27
Mining, extraction, and support activities	21	3	2	*	* i
Utilities	22	*	*	*	*
Wholesale trade	42	4 i	2 i	1 i	1 i
Electronic shopping and electronic auctions	454111-12	*	*	*	*
Transportation and warehousing	48-49	* i	* i	*	0
Information	51	94	74	8	12
Publishing	511	83	67	5	11
Newspaper, periodical, book, and directory publishers	5111	*	* i	*	*
Software publishers	5112	82	66	5	11
Telecommunications	517	1	1	* i	* i
Data processing, hosting, and related services	518	4	2	1	*
Other information	other 51	7	5	1	*
Finance and insurance	52	5	2	2	1
Real estate and rental and leasing	53	1	*	*	*
Lessors of nonfinancial intangible assets (except copyrighted works)	533	1	*	*	*
Other real estate and rental and leasing	other 53	*	*	*	*
Professional, scientific, and technical services	54	99	58	28	13
Architectural, engineering, and related services	5413	4	4	*	*
Computer systems design and related services	5415	53	34	17	3
Scientific research and development services	5417	25	9	7	8
Biotechnology research and development	541711	1	1	*	*
Physical, engineering, and life sciences (except biotechnology) research and development	541712	23	8	7	8
Social sciences and humanities research and development	541720	*	*	*	*
Other professional, scientific, and technical services	other 54	17	12 i	3 i	2 i
Health care services	621-23	* i	* i	* i	*
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72,	81	3	*	*
All companies (number of domestic employees)	-	554	395	95	65
Small companies <sup>a</sup>					
5-499	-	47	34	8	6
5-99	-	22	16	4	2
5-49	-	16	12	2	2

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5-9	-	1	1	*	*
10-24	-	10	7	1	2
25-49	-	5	5	*	*
50-99	-	7	5	2	*
100-249	-	10	7	2	1
250-499	-	15	10	2	3
Medium and large companies					
500-999	-	15	9	3 i	3
1,000-4,999	-	114	78	23	13
5,000-9,999	-	86	55	12	18
10,000-24,999	-	70	46	15	8
25,000 or more	-	223	173	33	16

\* = amount < 500; D = data withheld to avoid disclosing operations of individual companies; i = value > 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> 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.