

TABLE 81. Foreign R&D employment, by occupation, sex, industry, and company size: 2009
(Thousands of employees)

Industry and company size	NAICS code	Engineers and their managers			Scientists and their managers			Technicians and technologists			Support staff (clerical and others)		
		Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All industries	21-23, 31-33, 42-81	289	238	52	44	27	17	71	51	21	50	24	26
Manufacturing industries	31-33	183	156	27	35	22	14	37	27	10	31	14	17
Food	311	2 i	1 i	1 i	3	2	1	2	1	1	* i	* i	* i
Beverage and tobacco products	312	1 i	1 i	* i	* i	* i	* i	1 i	* i	* i	* i	* i	* i
Textiles, apparel, and leather products	313-316	*	*	* i	* i	* i	* i	*	* i	*	*	* i	*
Wood products	321	* i	* i	0	* i	* i	* i	* i	* i	* i	* i	* i	* i
Paper	322	2	D	D	1	D	D	1	1	*	*	D	D
Printing and related support activities	323	* i	* i	* i	* i	* i	* i	* i	* i	* i	* i	* i	* i
Petroleum and coal products	324	*	D	D	*	D	D	*	*	*	1	D	D
Chemicals	325	8	6	2	18	10	8	8	5	3	10	4	7
Basic chemicals	3251	1	1	*	2	1	*	2	1	1	*	*	*
Resin, synthetic rubber, fibers, and filaments	3252	1 i	1 i	* i	* i	* i	*	1	D i	D	* i	* i	* i
Pesticide, fertilizer, and other agricultural chemical	3253	*	*	*	1	*	*	1	D	D	*	*	*
Pharmaceuticals and medicines	3254	2 i	1 i	1	12	6	6	4	2 i	2	8	3	5
Soap, cleaning compound, and toilet preparation	3256	2	1	1	2	1	1	*	*	*	1	*	*
Paint, coating, adhesive, and other chemical	3255, 3259	2	2	*	1	1	*	1	1	*	*	*	*
Plastics and rubber products	326	4	4	*	2	1	*	2	1	*	1	*	*
Nonmetallic mineral products	327	*	*	*	*	*	*	*	*	*	* i	* i	*
Primary metals	331	*	*	*	*	*	*	*	* i	*	*	*	*
Fabricated metal products	332	1 i	1 i	*	*	* i	*	* i	* i	* i	* i	* i	* i
Machinery	333	14	13	2	* i	* i	* i	2	2	*	1	1	*
Agricultural implements	33311	3	3	*	*	*	*	*	*	*	*	*	*
Semiconductor machinery	333295	2	2	*	* i	* i	*	*	*	*	*	*	*
Engine, turbine, and power transmission equipment	3336	1	1	*	*	*	*	*	*	*	*	*	*
Other machinery	other 333	9	8	1	* i	* i	* i	1	1	*	1	*	*
Computer and electronic products	334	89	76	13	3	2 i	1 i	10	8	2	9	5	4
Communications equipment	3342	27	23	4	* i	* i	* i	2 i	1 i	* i	2 i	1	1 i
Semiconductor and other electronic components	3344	37	31	5	*	*	*	5	4	1	3	2	1
Navigational, measuring, electromedical, and control instruments	3345	11	9	2	2 i	1 i	1 i	3 i	2 i	1	3 i	1	1 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	2 i	1 i	* i	1 i	* i	* i	* i	* i	* i	1 i	* i	* i
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	5	4	1	*	*	*	1 i	1 i	*	1 i	1	1 i
Other measuring and controlling instruments	other 3345	4	3	1	1	1	*	1	1	*	1	*	*
Computer and peripheral equipment and other computer and electronic products	other 334	14	12 i	3 i	1	1 i	* i	1	1	*	2	1	1
Electrical equipment, appliances, and components	335	13 i	11 i	2 i	2 i	2 i	1 i	4 i	3 i	* i	2 i	1 i	1 i
Transportation equipment	336	44	39	6	2	2 i	*	5 i	4 i	1	2	1 i	1
Automobiles, bodies, trailers, and parts	3361-3363	27 i	24 i	3 i	1 i	1 i	* i	2 i	2 i	* i	1 i	1 i	* i
Aerospace products and parts	3364	17	14	2	1	1	*	2	2 i	*	1	*	*

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		Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Aircraft, aircraft engine, and aircraft parts	336411-336413	16	14	2	1	1	*	2	2 i	*	*	*	*
Guided missile, space vehicle, and related parts	336414, 336415, 336419	1	1	*	*	*	*	*	*	*	*	*	*
Military armored vehicle, tank, and tank components	336992	0	0	0	0	0	0	0	0	0	0	0	0
Other transportation equipment	other 336	* i	* i	* i	* i	* i	* i	* i	* i	* i	* i	* i	* i
Furniture and related products	337	* i	* i	*	* i	* i	* i	* i	* i	* i	*	*	*
Miscellaneous manufacturing	339	4	3	1	4 i	2 i	2 i	3 i	2	1 i	4 i	1	3 i
Medical equipment and supplies	3391	3	2	1	4 i	2 i	2 i	2 i	1 i	1 i	4 i	1	2 i
Other miscellaneous manufacturing	3399	2	1	1	*	*	*	1	1	*	*	*	*
Nonmanufacturing industries	21-23, 42-81	106	82	24	9	5	4 i	34	23	11	18	10	9
Mining, extraction, and support activities	21	1	1	*	*	*	*	*	*	*	*	*	*
Utilities	22	*	* i	0	*	*	0	* i	* i	*	* i	0	* i
Construction	23	1 i	1 i	* i	* i	* i	* i	* i	* i	* i	* i	* i	* i
Wholesale trade	42	1 i	* i	* i	* i	* i	* i	* i	* i	* i	* i	* i	* i
Retail trade	44, 45	1 i	1 i	* i	* i	* i	0	* i	* i	0	* i	* i	0
Electronic shopping and mail-order houses	4541	1 i	1 i	* i	0	0	0	0	0	0	0	0	0
Other retail trade	other 44, 45	* i	* i	* i	* i	* i	0	* i	* i	0	* i	* i	0
Transportation and warehousing	48, 49	* i	* i	* i	0	0	0	0	0	0	* i	0	* i
Information	51	72	56	16	3	2	*	6	4	1	8	6	2
Publishing	511	67	52	15	3	2	*	3	2	1	8	6	2
Newspaper, periodical, book, and directory publishers	5111	*	*	*	0	0	0	*	*	*	*	*	*
Software publishers	5112	67	52	15	3	2	*	3	2	1	7	6	2
Telecommunications	517	1	1	*	* i	* i	* i	*	* i	* i	* i	* i	* i
Data processing, hosting, and related services	518	3	3	1	* i	* i	* i	1 i	* i	* i	* i	* i	* i
Other information	other 51	1	1	*	*	*	*	2	2	*	*	*	*
Finance and insurance	52	4 i	2 i	1	* i	* i	* i	1 i	* i	1 i	* i	* i	* i
Real estate and rental and leasing	53	* i	* i	* i	* i	* i	0	* i	* i	* i	* i	* i	0
Professional, scientific, and technical services	54	25	19	6	5 i	2 i	3 i	27	18	9	10	3	6
Architectural, engineering, and related services	5413	1 i	1 i	*	*	*	* i	* i	* i	* i	* i	*	* i
Computer systems design and related services	5415	17	14 i	4	1	*	*	18	14	3	2 i	1 i	1
Scientific R&D services	5417	2	1	1	4 i	1 i	3 i	8	2	6	7	2	5
Biotechnology R&D	541711	2	1	1	3	1	1	1 i	1 i	1	2	1	1
Physical, engineering, and life sciences (except biotechnology) R&D	541712	*	*	*	1 i	* i	1 i	7	2	5	5	1	4
Social sciences and humanities R&D	541720	* i	* i	* i	* i	* i	* i	* i	* i	0	* i	* i	0
Other professional, scientific, and technical services	other 54	5	3	1 i	* i	* i	* i	1	1 i	* i	1	1	*
Health care services	621-623	* i	* i	* i	* i	* i	* i	* i	* i	* i	* i	* i	* i
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	* i	*	* i	1	*	*	* i	* i	* i	* i	* i	* i

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		Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All companies	-	289	238	52	44	27	17	71	51	21	50	24	26
Small companies (number of domestic employees) ^a													
5-499	-	28 i	22 i	6 i	3 i	2 i	1 i	9 i	7 i	2 i	5 i	3 i	2 i
5-99	-	11 i	8 i	3 i	1 i	1 i	1 i	4 i	3 i	1 i	3 i	2 i	1 i
5-49	-	6 i	4 i	1 i	1 i	* i	1 i	3 i	3 i	* i	2 i	1 i	1 i
5-24	-	3 i	2 i	1 i	* i	* i	* i	2 i	1 i	* i	1 i	1 i	* i
25-49	-	3 i	2 i	* i	* i	* i	* i	1 i	1 i	* i	1 i	* i	* i
50-99	-	5 i	3 i	1 i	* i	* i	* i	1 i	1 i	* i	1 i	* i	* i
100-249	-	8 i	6 i	2 i	1 i	1 i	* i	3 i	2 i	1 i	2 i	1 i	1 i
250-499	-	9	8	1	1 i	1 i	* i	1 i	1 i	* i	1 i	* i	1 i
Medium and large companies (number of domestic employees)													
500-999	-	13	11	2	2 i	2 i	1 i	3 i	2 i	1 i	1 i	1 i	1 i
1,000-4,999	-	63	52	11	8	5	3	12	8	4	11	5	5
5,000-9,999	-	33	27	6	4	2	2	11	7	5	9	3	5
10,000-24,999	-	48 i	42 i	7	11	6	5	11	9 i	2	11	5	6
25,000 or more	-	104	84	20	17	10	6	26	19	7	13	7	6 i

* = amount < 500 employees; D = data withheld to avoid disclosing operations of individual companies; i = more than 50% of value imputed.

NAICS = 2007 North American Industry Classification System.

^a Upper bound based on U.S. Small Business Administration's definition of small business; Business R&D and Innovation Survey (BRDIS) 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 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, 2009.