

TABLE 55

## Foreign R&amp;D employment and level of education of researchers, by occupation, industry, and company size: 2015

(Thousands)

Industry and company size	NAICS code	Total	Researchers <sup>a</sup>			R&D technicians and equivalent staff	Other R&D supporting staff	
			Total	With PhD				
All industries	21-23, 31-33, 42-81	635	464	28	i	107		64
Manufacturing industries	31-33	392	298	19	i	53		40
Food	311	15	10	i	* i	3	i	2
Beverages and tobacco products	312	3	2		*	1		*
Textiles, apparel, and leather products	313-16	1	*		*	*		*
Wood products	321	*	*		*	*		*
Paper	322	2	1	i	* i	*	i	* i
Printing and related support activities	323	*	*	i	* i	*	i	* i
Petroleum and coal products	324	*	*		*	*		*
Chemicals	325	64	37	7		10		16
Basic chemicals	3251	6	3	1	i	2		1
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	4	3		*	1		*
Pesticides, fertilizers, and other agricultural chemicals	3253	5	2	1		2		*
Pharmaceuticals and medicines	3254	41	24	5	i	4		13
Soaps, cleaning compounds, and toilet preparations	3256	2	1		*	*		*
Paints, coatings, adhesives, and other chemicals	3255, 3259	6	3		*	2		1
Plastics and rubber products	326	3	2	i	* i	1	i	1
Nonmetallic mineral products	327	1	*	i	* i	1		* i
Primary metals	331	1	*		*	*		*
Fabricated metal products	332	2	2		*	*		*
Machinery	333	31	25	1	i	5		2
Agricultural implements	33311	5	4	i	*	1		*
Semiconductor machinery	333242	3	3		*	*		*
Engines, turbines, and power transmission equipment	3336	5	4		*	*		*
Other machinery	other 333	18	13	1	i	3		1
Computer and electronic products	334	152	126	5	i	14	i	12
Communications equipment	3342	32	28		*	2	i	2
Semiconductors and other electronic components	3344	60	54	2	i	3		3
Navigational, measuring, electromedical, and control instruments	3345	26	19	i	1 i	5	i	2
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	6	4	i	1 i	2	i	1
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	4	3		*	*		*
Other measuring and controlling devices	other 3345	16	12	i	* i	2	i	1
Other computer and electronic products	other 334	34	26	i	1 i	3	i	5
Electrical equipment, appliances, and components	335	24	21	1		2		1
Transportation equipment	336	70	56	2		12		3

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			Total	With PhD		
Automobiles, bodies, trailers, and parts	3361-63	46	37	1 i	7	2
Aerospace products and parts	3364	23	17	1	5	1 i
Aircraft, aircraft engines, and aircraft parts	336411-13	23	17	1	5	1 i
Guided missiles, space vehicles, and related parts	336414-15, 336419	*	*	0	*	0
Military armored vehicles, tanks, and tank components	336992	0	0	0	0	0
Other transportation	other 336	1 i	1 i	0	* i	* i
Furniture and related products	337	*	*	0	*	*
Miscellaneous manufacturing	339	21	15	2	3	2
Medical equipment and supplies	3391	15	11	1	3	2
Other miscellaneous manufacturing	3399	6	5 i	* i	1	*
Nonmanufacturing industries	21-23, 42-81	243	166	9	53	24
Mining, extraction, and support activities	21	2	1	*	*	* i
Utilities	22	*	*	*	*	*
Wholesale trade	42	1	1 i	* i	* i	* i
Electronic shopping and electronic auctions	454111-12	1	* i	* i	* i	1 i
Transportation and warehousing	48-49	*	*	*	* i	*
Information	51	130	98	4 i	20	12
Publishing	511	100	81	2 i	8	11
Newspaper, periodical, book, and directory publishers	5111	*	*	0	*	*
Software publishers	5112	100	81	2 i	8	11
Telecommunications	517	1	*	*	1	*
Data processing, hosting, and related services	518	16	7	*	8	1 i
Other information	other 51	13	10	2	3	* i
Finance and insurance	52	8	3	* i	3	2
Real estate and rental and leasing	53	*	*	*	*	*
Lessors of nonfinancial intangible assets (except copyrighted works)	533	*	*	*	0	*
Other real estate and rental and leasing	other 53	*	*	*	*	*
Professional, scientific, and technical services	54	98	61	4	29	8
Architectural, engineering, and related services	5413	8	8	1	*	*
Computer systems design and related services	5415	44	37	1	3	4
Scientific research and development services	5417	40	11	1	25	4
Biotechnology research and development	541711	9	7	1	1	1
Physical, engineering, and life sciences (except biotechnology) research and development	541712	30	4	1 i	23	3
Social sciences and humanities research and development	541720	*	* i	0	* i	* i
Other professional, scientific, and technical services	other 54	6	4 i	* i	1 i	* i

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			Total	With PhD		
Health care services	621-23	*	*	i	*	*
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	2	1	*	*	1
All companies (number of domestic employees)	-	635	464	28	107	64
Micro companies <sup>b</sup>						
5-9	-	3	2	i	*	i
Small companies						
10-19	-	4	3	i	*	i
20-49	-	9	7	i	1	*
Medium companies						
50-99	-	7	4	*	2	i
100-249	-	18	12	1	4	2
Large companies						
250-499	-	14	11	1	2	1
500-999	-	25	18	1	5	2
1,000-4,999	-	134	102	5	19	12
5,000-9,999	-	80	56	5	15	9
10,000-24,999	-	108	62	5	32	13
25,000 or more	-	235	186	9	25	24

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

NAICS = 2012 North American Industry Classification System.

<sup>a</sup> Includes scientists and engineers and their managers.

<sup>b</sup> Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

**Note(s)**

Detail may not add to total because of rounding. 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(s)**

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2015.