

TABLE 52

Worldwide, domestic, and foreign R&D employment, by sex, industry, and company size: 2015

(Thousands)

Industry and company size	NAICS code	Worldwide			Domestic			Foreign		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
All industries	21-23, 31-33, 42-81	2,178	1,610	568	1,543	1,155	389	635	456	179
Manufacturing industries	31-33	1,308	998	309	916	706	210	392	292	99
Food	311	40	23	17	24	14	10	15	9	7
Beverages and tobacco products	312	7	4	3	4	2	2	3	2	2
Textiles, apparel, and leather products	313-16	8	5	3	7	5	3	1	*	*
Wood products	321	2	2	*	2	2	*	*	*	*
Paper	322	7	5	2	5	4	1	2	1	1
Printing and related support activities	323	4	3	1	3	3	1	*	*	*
Petroleum and coal products	324	2	1	1	2	1	*	*	*	*
Chemicals	325	231	128	103	167	95	73	64	34	30
Basic chemicals	3251	20	14	6	14	10	4	6	4	2
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	11	9	2	7	6	1	4	4	1
Pesticides, fertilizers, and other agricultural chemicals	3253	14	9	5	9	6	3	5	3	2
Pharmaceuticals and medicines	3254	161	79	82	120	61	59	41	18	23
Soaps, cleaning compounds, and toilet preparations	3256	9	5	4	7	4	3	2	1	1
Paints, coatings, adhesives, and other chemicals	3255, 3259	16	12	4	10	7	2	6	4	2
Plastics and rubber products	326	27	22	5	24	20	4	3	3	1
Nonmetallic mineral products	327	8	7	1	7	6	1	1	1	*
Primary metals	331	7	6	1	6	6	1	1	1	*
Fabricated metal products	332	39	34	5	36	32	4	2	2	*
Machinery	333	114	100	14	82	73	9	31	27	4
Agricultural implements	33311	15	13	1	9	8	1	5	5	1
Semiconductor machinery	333242	13	11	2	9	8	1	3	3	*
Engines, turbines, and power transmission equipment	3336	15	13	1	10	9	1	5	4	*
Other machinery	other 333	72	62	9	54	47	6	18	15	3
Computer and electronic products	334	415	335	80	263	215	48	152	120	32
Communications equipment	3342	90	72	18	58	47	11	32	25	7
Semiconductors and other electronic components	3344	157	129	28	97	80	17	60	49	11
Navigational, measuring, electromedical, and control instruments	3345	92	72	20	66	53	13	26	19	7
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	20	14	7	14	9	4	6	4	2
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	33	28	5	29	24	5	4	3	1
Other measuring and controlling devices	other 3345	39	31	8	23	19	4	16	12	4
Other computer and electronic products	other 334	77	62	15	42	35	7	34	27	8
Electrical equipment, appliances, and components	335	53	43	10	28	24	5	24	19	6
Transportation equipment	336	255	216	39	185	156	29	70	60	10
Automobiles, bodies, trailers, and parts	3361-63	148	127	20	101	88	14	46	40	7

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Aerospace products and parts	3364	93	78	15	70	59	11	23	19	4
Aircraft, aircraft engines, and aircraft parts	336411-13	81	67	13	58	49	10	23	19	4
Guided missiles, space vehicles, and related parts	336414-15, 336419	12	10	2	12	10	2	*	*	*
Military armored vehicles, tanks, and tank components	336992	*	*	*	*	*	*	0	0	0
Other transportation	other 336	14	11	4	13	9	4	1 i	1 i	*
Furniture and related products	337	5	4 i	1 i	5	4 i	1 i	*	*	*
Miscellaneous manufacturing	339	83	60	23	62	45	17	21	15	6
Medical equipment and supplies	3391	62	45	18	47	34	13	15	11	4
Other miscellaneous manufacturing	3399	21	15 i	6 i	15	11 i	4 i	6	4 i	2 i
Nonmanufacturing industries	21-23, 42-81	871	612	259	627	449	179	243	163	80
Mining, extraction, and support activities	21	17	13	4 i	15	12	3	2	1	1 i
Utilities	22	3	2	1	3	2	1	*	*	*
Wholesale trade	42	26	20 i	6 i	25	20 i	6 i	1	1 i	* i
Electronic shopping and electronic auctions	454111-12	7	5 i	2 i	6	4 i	2 i	1	1 i	1 i
Transportation and warehousing	48-49	2	1	1 i	2	1	1 i	*	*	*
Information	51	409	313	97	279	215	64	130	98	32
Publishing	511	247	186	61	146	112	34	100	74	26
Newspaper, periodical, book, and directory publishers	5111	1	1 i	* i	1	* i	* i	*	*	*
Software publishers	5112	246	185	60	145	111	34	100	74	26
Telecommunications	517	25	20 i	6	24	19 i	5	1	1	*
Data processing, hosting, and related services	518	72	55	17	56	43	13	16	12	4
Other information	other 51	66	53	14	53	42	11	13	11	2
Finance and insurance	52	40	22	18	32	18	14	8	5	3
Real estate and rental and leasing	53	2	1	*	2	1	*	*	*	*
Lessors of nonfinancial intangible assets (except copyrighted works)	533	*	*	*	*	*	*	*	*	*
Other real estate and rental and leasing	other 53	1	1	*	1	1	*	*	*	*
Professional, scientific, and technical services	54	344	220	123	246	165 i	81 i	98	56	42
Architectural, engineering, and related services	5413	52	40 i	12 i	44	34 i	10 i	8	7	2
Computer systems design and related services	5415	136	101	35	92	68 i	24 i	44	32	11
Scientific research and development services	5417	122	55	67	82	43	40	40	12	27
Biotechnology research and development	541711	31	13	18	22	10	12	9	3	6
Physical, engineering, and life sciences (except biotechnology) research and development	541712	84	39	45	54	30	24	30	9	21
Social sciences and humanities research and development	541720	7	3 i	4 i	7	3 i	4 i	*	* i	* i
Other professional, scientific, and technical services	other 54	34	24 i	10 i	28	20 i	8 i	6	4 i	1 i
Health care services	621-23	6	2 i	3 i	5	2 i	3 i	*	* i	* i

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Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	15	12	i 4	13	10	i 3	2	2	1	i
All companies (number of domestic employees)	-	2,178	1,610	568	1,543	1,155	389	635	456	179	
Micro companies ^a											
5-9	-	29	21	i 8	26	19	i 7	3	2	i 1	i
Small companies											
10-19	-	54	41	i 13	50	38	i 12	4	3	i 1	i
20-49	-	99	77	i 22	91	71	i 20	9	7	i 2	i
Medium companies											
50-99	-	90	69	i 20	83	65	i 18	7	4	2	i
100-249	-	118	92	26	100	78	21	18	13	5	
Large companies											
250-499	-	99	78	21	86	67	19	14	11	3	
500-999	-	102	79	23	77	59	18	25	19	5	
1,000-4,999	-	388	294	95	254	194	60	134	100	34	
5,000-9,999	-	227	161	66	147	105	42	80	57	24	
10,000-24,999	-	336	225	111	228	160	69	108	65	43	
25,000 or more	-	637	474	163	402	299	102	235	174	61	

* = 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.

^a 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.