

TABLE 55. Worldwide, domestic, and foreign R&D employment, by sex, industry, and company size: 2013
(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	2,095	1,547	548	1,495	1,124	371	600	423	177
Manufacturing industries	31-33	1,267	954	312	898	686	212	368	268	100
Food	311	40	23 i	17 i	29	17 i	12 i	11	6 i	5 i
Beverage and tobacco products	312	6	4	3	4	2	1	3	1	1
Textile, apparel, and leather products	313-16	9	5	4	8	5	3	1	1	*
Wood products	321	3	2	*	3	2	*	*	*	*
Paper	322	10	8	1	9	7	1	1	1	*
Printing and related support activities	323	4	3 i	1 i	4	3 i	1 i	*	*	*
Petroleum and coal products	324	2	2	1	2	1	*	*	*	*
Chemicals	325	229	129	100	166	95	72	63	35	28
Basic chemicals	3251	19	14	5	13	10	3	6	4	2
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	12	9	2	7	6	2	5	4	1
Pesticide, fertilizer, and other agricultural chemicals	3253	8 i	5 i	3 i	6 i	4 i	2 i	2 i	1 i	1 i
Pharmaceuticals and medicines	3254	155	78	77	117	60	56	38	18	20
Soap, cleaning compound, and toilet preparation	3256	18	9	8	12	7	6	5	3	3
Paint, coating, adhesive, and other chemicals	3255, 3259	17	13	4	11	8	2	7	5	2
Plastics and rubber products	326	34	27 i	7	28	22 i	5	6	5	2
Nonmetallic mineral products	327	13	8 i	5 i	8	6 i	3	4	3 i	2 i
Primary metals	331	13	11 i	2 i	12	11 i	1 i	1	*	*
Fabricated metal products	332	36	32 i	4 i	33	30 i	3 i	3	3	1 i
Machinery	333	114	99	15	83	74	10	30	25	5
Agricultural implement	33311	15	14	1	10	9	1	5	4	*
Semiconductor machinery	333295	12	11	2	9	7	1	4	3	*
Engine, turbine, and power transmission equipment	3336	14	11	3	10	8	2	4	3	1
Other machinery	other 333	72	63	9	54	49	6 i	18	15	3 i
Computer and electronic products	334	395	312	83	255	206	50	140	106	34
Communications equipment	3342	86	68	19	57	45	11	30	22	8
Semiconductor and other electronic components	3344	183	142	41 i	109	86	22 i	74	56	18 i
Navigational, measuring, electromedical, and control instruments	3345	80	66	15	61	50	11	20	16 i	4 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	12	9	2 i	10	8	2	1	1 i	* i
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	30	25	5	27	23	4	3	2	*
Other measuring and controlling device	other 3345	39	32 i	8	24	19	5	16	13 i	3 i
Other computer and electronic products	other 334	45	37	9	29	24	5	16	12	4
Electrical equipment, appliances, and components	335	54	47	7	30	27	4	24	20	4
Transportation equipment	336	215	178	37	157	131	26	58	47	11
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	119	103	16	83	71	12	36	31	5
Aerospace products and parts	3364	85	66	19	64	51	13	22	15	6
Aircraft, aircraft engine, and aircraft parts	336411-13	81	62	18	59	47	12	22	15	6
Guided missile, space vehicle, and related parts	336414-15, 336419	5	4	1	5	4	1	*	*	*

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		Total	Male	Female	Total	Male	Female	Total	Male	Female
Military armored vehicle, tank, and tank components	336992	* i	* i	* i	* i	* i	* i	0	0	0
Other transportation	other 336	11	10 i	2 i	11	9 i	1 i	1	* i	* i
Furniture and related products	337	4	3	1	4	3 i	1	*	*	*
Miscellaneous manufacturing	339	84	59	26	62	44	19	22	15	7
Medical equipment and supplies	3391	65	44	21	47	32	15	18	12	6
Other miscellaneous manufacturing	3399	20	15	5	16	12	4	4 i	3 i	1 i
Nonmanufacturing industries	21-23, 42-81	828	593 i	236 i	597	438 i	159 i	231	154	77 i
Mining, extraction, and support activities	21	19	15	4	16	12	3	3	2	*
Utilities	22	2	2	*	2	1	*	* i	* i	* i
Wholesale trade	42	14	9 i	5 i	12	8 i	4 i	3	2 i	1 i
Electronic shopping and electronic auctions	454111-12	11	6	5	8	4	3	3	1	1
Transportation and warehousing	48-49	3	2	1 i	3	2	1 i	*	*	* i
Information	51	406	312	94	277	215 i	62	129	97	32
Publishing	511	298	228	69	184	143 i	41 i	113	85	28
Newspaper, periodical, book, and directory publishers	5111	8 i	6 i	3 i	4	2 i	2 i	4 i	3 i	1 i
Software publishers	5112	289	223	66	181	141 i	40	109	82	27
Telecommunications	517	20	16 i	3 i	19	16 i	3 i	1	1	* i
Data processing, hosting, and related services	518	50	37	13	42	31	11	9	6	2 i
Other information	other 51	38	30	9	32	25	7	6	5	1
Finance and insurance	52	30	18	12	25	15	10	4	2	2
Real estate and rental and leasing	53	1	1	*	1	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	310	205 i	106 i	223	158 i	65 i	87	47 i	40 i
Architectural, engineering, and related services	5413	47	37 i	10 i	44	35 i	10 i	2 i	2 i	* i
Computer systems design and related services	5415	113	86 i	27 i	75	61 i	14 i	38	25 i	13 i
Scientific research and development services	5417	106	49	57	72	38	34 i	34	10	24
Biotechnology research and development	541711	28	11	16	19	8	10	9	3	6
Physical, engineering, and life sciences (except biotechnology) research and development	541712	74	36	38	49	28	21 i	25	8	17
Social sciences and humanities research and development	541720	5	2 i	3 i	5	2 i	3 i	*	* i	* i
Other professional, scientific, and technical services	other 54	45	33 i	11 i	32	24 i	8 i	13 i	9 i	4 i
Health care services	621-23	3	1 i	2 i	3	1 i	2 i	* i	* i	* i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	30	23 i	7 i	27	21 i	7 i	2	2	1 i
All companies (number of domestic employees)	-	2,095	1,547	548	1,495	1,124	371	600	423	177
Small companies ^a										
5-499	-	506	387 i	119 i	442	346 i	96 i	64	41	23 i
5-99	-	281	211 i	71 i	251	195 i	56 i	30	15	15 i
5-49	-	192	141 i	52 i	170	132 i	39 i	22	9	13 i

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5-9	-	37	28 i	9 i	36	27 i	8 i	2	1 i	1 i
10-24	-	75	53 i	21 i	62	49 i	14 i	12	5	8 i
25-49	-	80	59 i	21 i	72	56 i	17 i	8	3	5 i
50-99	-	89	70 i	19 i	81	64 i	17 i	8	6	2 i
100-249	-	128	101 i	27 i	112	89 i	23 i	16	12	4 i
250-499	-	96	75	21	79	62	17	18	14	4
Medium and large companies										
500-999	-	85	64	21	68	52	16	17	12	5 i
1,000-4,999	-	363	272	91	240	179	60	124	92	31
5,000-9,999	-	254	171	83	141	99	42	113	72	40
10,000-24,999	-	270	191	78	201	144	58	68	48	21
25,000 or more	-	618	462	156	403	305	99	215	158	57

* = 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.

^a 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, 2013.