

TABLE 49. Worldwide, domestic, and foreign R&D employment, by sex, industry, and company size: 2014
(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	2,167	1,607	560	1,514	1,138	376	653	470	184
Manufacturing industries	31-33	1,317	994	323	914	696	218	403	298	105
Food	311	36	21 i	15	25	14 i	10	11	6 i	5
Beverages and tobacco products	312	6	3	3	4	2	2	3	1	1
Textiles, apparel, and leather products	313-16	8	5	3	7	4	2	1	*	*
Wood products	321	4 i	3 i	1 i	4 i	3 i	1 i	* i	* i	* i
Paper	322	9	7 i	2	8	7 i	1	1	1	1 i
Printing and related support activities	323	4	3	1	4	3	1	*	*	* i
Petroleum and coal products	324	2	2	1	2	1	*	1	*	*
Chemicals	325	234	129	105	172	96	76	61	33	28
Basic chemicals	3251	22	16	6	15	11	4	7	5	2
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	12	9	2	6	5	1	5	4	1
Pesticides, fertilizers, 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	158	77	81	122	61	61	36	16	20
Soaps, cleaning compounds, and toilet preparations	3256	17	9	8	12	6	5	5	3	3
Paints, coatings, adhesives, and other chemicals	3255, 3259	17	13	4	11	8	3	6	5	2
Plastics and rubber products	326	31	24 i	7	26	20 i	5	6	4	2
Nonmetallic mineral products	327	10	8	3 i	9	7	2 i	2	1 i	1 i
Primary metals	331	8	7	1	7	7	1	1	1	*
Fabricated metal products	332	34	30 i	4 i	32	28 i	4 i	3	2	* i
Machinery	333	103	91	12	75	67	8	28	24	4
Agricultural implements	33311	14	13	1	10	9	1	5	4	*
Semiconductor machinery	333295	11	10	1	8	7	1	4	3	*
Engines, turbines, and power transmission equipment	3336	18	16	2	12	11	1	6	5	1
Other machinery	other 333	60	52 i	8 i	46	41 i	5 i	13	11	2 i
Computer and electronic products	334	445	354	91 i	273	220	53	172	134	38 i
Communications equipment	3342	94	75	19	59	48 i	12	35	27	8
Semiconductors and other electronic components	3344	181	142	39 i	107	85	22 i	74	57 i	17 i
Navigational, measuring, electromedical, and control instruments	3345	101	81	20	74	60	14	27	21 i	6 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	21	15 i	6 i	14	11	4 i	6	4 i	2 i
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	36	30	6	33	28	5	3	3	*
Other measuring and controlling devices	other 3345	44	36 i	8 i	26	22 i	5	17	14 i	4 i
Other computer and electronic products	other 334	69	56	13	33	28	6	36	28	8

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		Total	Male	Female	Total	Male	Female	Total	Male	Female
Electrical equipment, appliances, and components	335	54	46	8	33	28	4	21	18	4
Transportation equipment	336	239	197	42	167	140	28	72	58	14
Automobiles, bodies, trailers, and parts	3361-63	142	120	21	94	80	14	47	40	8
Aerospace products and parts	3364	84	66	18	61	49	12	23	17	6
Aircraft, aircraft engines, and aircraft parts	336411-13	79	61	18	56	44	12	23	17	6
Guided missiles, space vehicles, and related parts	336414-15, 336419	5 i	4 i	1 i	5 i	4 i	1 i	*	*	*
Military armored vehicles, tanks, and tank components	336992	* i	* i	* i	*	* i	* i	* i	* i	* i
Other transportation	other 336	13 i	12 i	2 i	12 i	10 i	2 i	1	1	* i
Furniture and related products	337	6	4 i	1 i	5	4 i	1 i	*	*	*
Miscellaneous manufacturing	339	84	60	24	64	45	18	21	15	6
Medical equipment and supplies	3391	58	40	17	43	30	13	14	10	4
Other miscellaneous manufacturing	3399	27	20 i	7	20	15 i	5 i	6	5	2
Nonmanufacturing industries	21-23, 42-81	850	613	237	600	441	158	250	171	79
Mining, extraction, and support activities	21	19	15	4	16	13	3	3	2	1
Utilities	22	2	2	*	2	2	*	*	*	*
Wholesale trade	42	8	6 i	1 i	7	6 i	1 i	*	* i	* i
Electronic shopping and electronic auctions	454111-12	D	D	D	7	4	3	D	D	D
Transportation and warehousing	48-49	3 i	2 i	1 i	3 i	2 i	1 i	*	*	*
Information	51	438	336	102	296	227	69	142	109	33
Publishing	511	276	212	64	164	126	38	113	86	26
Newspaper, periodical, book, and directory publishers	5111	1	* i	1 i	1	* i	* i	* i	* i	* i
Software publishers	5112	275	212	64	163	126	37	113	86	26
Telecommunications	517	31	23 i	8 i	30	22 i	8 i	1	1	* i
Data processing, hosting, and related services	518	74	56	18	57	43	13	17	13	5
Other information	other 51	57	45	12	46	36	10	11	9	2
Finance and insurance	52	28	15	13	24	13	10	4	2	2
Real estate and rental and leasing	53	2	1 i	*	2	1 i	*	*	*	*
Lessors of nonfinancial intangible assets (except copyrighted works)	533	*	*	*	*	*	*	*	*	*
Other real estate and rental and leasing	other 53	2	1 i	*	2	1 i	*	*	*	0
Professional, scientific, and technical services	54	318	213 i	105 i	223	157 i	65 i	95	55 i	40
Architectural, engineering, and related services	5413	51	40 i	11 i	45	35 i	10 i	7	5	2
Computer systems design and related services	5415	113	89 i	24 i	77	61 i	16 i	36	28 i	8 i
Scientific R&D services	5417	112	52	59	71	39	32	40	14	27
Biotechnology R&D	541711	25	10	15	15	7	9	9	3	6

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Physical, engineering, and life sciences (except biotechnology) R&D	541712	81	40	41	50	29	21	31	11	20
Social sciences and humanities R&D	541720	6	3 i	3 i	6	3 i	3 i	*	* i	* i
Other professional, scientific, and technical services	other 54	42	31 i	11 i	30	22 i	8 i	12 i	9 i	3 i
Health care services	621-23	6	3	2 i	5	3	2 i	*	* i	* i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	D	D	15	13 i	3 i	D	D	D
All companies (number of domestic employees)	-	2,167	1,607	560	1,514	1,138	376	653	470	184
Small companies ^a										
5-499	-	486	381 i	105 i	419	331 i	88 i	67	49	17 i
5-99	-	274	214 i	60 i	242	191 i	51 i	32	23 i	9 i
5-49	-	182	143 i	39 i	161	128 i	33 i	21	15 i	6 i
5-9	-	33	25 i	8 i	27	21 i	6 i	6	4 i	2 i
10-24	-	73	57 i	16 i	66	52 i	14 i	7	5 i	2 i
25-49	-	77	61 i	16 i	69	55 i	14 i	9	7 i	2 i
50-99	-	92	71 i	21 i	81	63 i	18 i	10	7	3 i
100-249	-	119	94	25	100	80 i	21 i	19	14	5
250-499	-	92	73	20	76	60	16	16	12	4
Medium and large companies										
500-999	-	97	75	22	70	55	15	27	20	7 i
1,000-4,999	-	386	286	100	254	188	66	133	98	35
5,000-9,999	-	259	176	83	150	106	44	110	70	39
10,000-24,999	-	301	212	89	219	155	64	82	57	26
25,000 or more	-	638	478	160	403	303	100	235	175	60

* = amount < 500; D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Upper bound is based on the U.S. Small Business Administration's definition of a small business; the 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 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: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2014.