

TABLE 53. Worldwide, domestic, and foreign total and R&D employment, by industry and company size: 2013
(Thousands)

Industry and company size	NAICS code	Worldwide employees			Domestic employees			Foreign employees		
		Total	R&D	% R&D employees	Total	R&D	% R&D employees	Total	R&D	% R&D employees
All industries	21-23, 31-33, 42-81	30,560	2,095	6.9	20,046	1,495	7.5	10,514	600	5.7
Manufacturing industries	31-33	17,661	1,267	7.2	10,457	898	8.6	7,204	368	5.1
Food	311	1,729	40	2.3	1,207	29	2.4	521	11	2.1
Beverage and tobacco products	312	978	6	0.6	412	4	0.9	567	3	0.5
Textile, apparel, and leather products	313-16	307	9	3.0	191	8	4.4	116 i	1	0.7
Wood products	321	115	3	2.4	93	3	2.9	23	*	0.3
Paper	322	319	10	3.0	195	9	4.4	123	1	0.8
Printing and related support activities	323	109	4	3.7	101	4	3.8	8	*	2.9
Petroleum and coal products	324	95	2	2.4	83	2	2.2	11	*	3.8
Chemicals	325	2,692	229	8.5	1,607	166	10.3	1,085	63	5.8
Basic chemicals	3251	626	19	3.1	460	13	2.9	167	6	3.6
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	247	12	4.8	140	7	5.2	107	5	4.3
Pesticide, fertilizer, and other agricultural chemicals	3253	84	8 i	10.0	58	6 i	10.6	26	2 i	8.8
Pharmaceuticals and medicines	3254	1,072	155	14.5	622	117	18.8	451	38	8.5
Soap, cleaning compound, and toilet preparation	3256	432	18	4.1	181	12	6.8	250	5	2.2
Paint, coating, adhesive, and other chemicals	3255, 3259	232	17	7.4	147	11	7.2	85	7	7.8
Plastics and rubber products	326	677	34	5.1	481	28	5.8	196	6	3.3
Nonmetallic mineral products	327	242	13	5.3	168	8	5.0	74	4	6.0
Primary metals	331	355	13	3.6	268	12	4.6	88	1	0.6
Fabricated metal products	332	623	36	5.8	497	33	6.6	125	3	2.5
Machinery	333	1,637	114	6.9	918	83	9.1	719	30	4.2
Agricultural implement	33311	168	15	8.9	112	10	9.1	56	5	8.6
Semiconductor machinery	333295	68	12	17.9	26	9	32.8	42	4	8.5
Engine, turbine, and power transmission equipment	3336	170	14	8.4	94	10	10.9	76	4	5.4
Other machinery	other 333	1,231	72	5.9	686	54	7.9	545	18	3.3
Computer and electronic products	334	2,716	395	14.6	1,277	255	20.0	1,438	140	9.7
Communications equipment	3342	371	86	23.3	225	57	25.2	146	30	20.4
Semiconductor and other electronic components	3344	1,055	183	17.4	336	109	32.4	719 i	74	10.4
Navigational, measuring, electromedical, and control instruments	3345	910	80	8.8	526	61	11.5	383	20	5.1
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	101	12	11.4	80	10	12.7	21	1	6.4
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	349	30	8.5	250	27	10.8	99	3	2.7
Other measuring and controlling device	other 3345	460	39	8.5	196	24	12.0	264	16	5.9
Other computer and electronic products	other 334	381	45	11.9	190	29	15.4	191	16	8.4
Electrical equipment, appliances, and components	335	705	54	7.7	327	30	9.3	378	24	6.3
Transportation equipment	336	3,111	215	6.9	1,854	157	8.5	1,257	58	4.6

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Automobiles, bodies, trailers, and parts	3361, 3362, 3363	1,906	119	6.2	930	83	8.9	975	36	3.7
Aerospace products and parts	3364	995	85	8.6	751	64	8.5	243	22	8.9
Aircraft, aircraft engine, and aircraft parts	336411-13	D	81	D	713	59	8.3	D	22	D
Guided missile, space vehicle, and related parts	336414-15, 336419	D	5	D	38	5	11.9	D	*	D
Military armored vehicle, tank, and tank components	336992	1	* i	9.7	1	* i	9.7	0	0	0.0
Other transportation	other 336	210	11	5.3	172	11	6.1	38	1	1.6
Furniture and related products	337	181	4	2.4	151	4	2.8	29	*	0.6
Miscellaneous manufacturing	339	1,070	84	7.9	625	62	10.0	445	22	5.0
Medical equipment and supplies	3391	701	65	9.2	399	47	11.7	302	18	5.9
Other miscellaneous manufacturing	3399	369	20	5.4	226	16	6.9	144	4 i	2.9
Nonmanufacturing industries	21-23, 42-81	12,899	828	6.4	9,589	597	6.2	3,310	231	7.0
Mining, extraction, and support activities	21	702	19	2.6	399	16	3.9	303	3	1.0
Utilities	22	392	2	0.5	381	2	0.4	11	* i	2.1
Wholesale trade	42	440 i	14	3.2	417 i	12	2.8	23 i	3	11.3
Electronic shopping and electronic auctions	454111-12	156	11	6.8	100	8	7.7	56	3	5.2
Transportation and warehousing	48-49	875 i	3	0.4	734	3	0.5	141 i	*	*
Information	51	3,353	406	12.1	2,182	277	12.7	1,171	129	11.0
Publishing	511	1,792	298	16.6	854	184	21.6	938	113	12.1
Newspaper, periodical, book, and directory publishers	5111	167 i	8 i	5.0	140 i	4	2.7	27 i	4 i	16.6
Software publishers	5112	1,625	289	17.8	714	181	25.3	911	109	11.9
Telecommunications	517	745	20	2.6	725	19	2.6	20	1	4.3
Data processing, hosting, and related services	518	422	50	11.9	288	42	14.5	135	9	6.3
Other information	other 51	393	38	9.7	316	32	10.1	77	6	7.8
Finance and insurance	52	1,603	30	1.9	1,325	25	1.9	278	4	1.5
Real estate and rental and leasing	53	46	1	2.2	43	1	2.1	3	*	3.5
Lessors of nonfinancial intangible assets (except copyrighted works)	533	2	*	23.4	1	*	21.2	*	*	43.4
Other real estate and rental and leasing	other 53	44	1	1.5	42	1	1.5	3	*	1.4
Professional, scientific, and technical services	54	1,993	310	15.6	1,430	223	15.6	562	87	15.4
Architectural, engineering, and related services	5413	395	47	11.8	270	44	16.5	125	2 i	1.7
Computer systems design and related services	5415	808	113	13.9	512	75	14.6	296	38	12.8
Scientific research and development services	5417	292	106	36.4	232	72	31.1	60	34	57.0
Biotechnology research and development	541711	104	28	26.5	91	19	20.4	13	9	67.9
Physical, engineering, and life sciences (except biotechnology) research and development	541712	179	74	41.2	133	49	36.8	46	25	53.8
Social sciences and humanities research and development	541720	8	5	57.7	8	5	57.7	*	*	49.2

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Other professional, scientific, and technical services	other 54	498	45	9.0	416	32	7.7	82	13 i	15.7
Health care services	621-23	237	3	1.4	235	3	1.3	2	* i	5.9
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	3,102	30	1.0	2,342	27	1.2	760	2	0.3
All companies (number of domestic employees)	-	30,560	2,095	6.9	20,046	1,495	7.5	10,514	600	5.7
Small companies ^a										
5-499	-	4,326	506	11.7	3,762	442	11.7	564	64	11.3
5-99	-	2,077	281	13.5	1,934	251	13.0	143	30	21.2
5-49	-	1,243	192	15.5	1,145	170	14.9	98	22	22.8
5-9	-	171	37	21.9	167	36	21.4	5	2	38.8
10-24	-	445	75	16.8	411	62	15.1	34	12	36.9
25-49	-	626	80	12.8	567	72	12.7	59	8	13.5
50-99	-	835	89	10.7	790	81	10.3	45	8	17.6
100-249	-	1,218	128	10.5	986	112	11.4	233	16	6.8
250-499	-	1,031	96	9.3	842	79	9.3	188	18	9.3
Medium and large companies										
500-999	-	1,043	85	8.2	762	68	8.9	281	17	6.0
1,000-4,999	-	4,188	363	8.7	2,537	240	9.4	1,651	124	7.5
5,000-9,999	-	3,330	254	7.6	1,599	141	8.8	1,732	113	6.5
10,000-24,999	-	4,614	270	5.8	2,903	201	6.9	1,710	68	4.0
25,000 or more	-	13,060	618	4.7	8,482	403	4.8	4,577	215	4.7

* = < 500 employees or < 0.05%; 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 = 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.