

TABLE 50

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

(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	29,240	2,178	7.4	18,915	1,543	8.2	10,325	635	6.2
Manufacturing industries	31-33	17,531	1,308	7.5	10,151	916	9.0	7,381	392	5.3
Food	311	1,634	40	2.4	1,099	24	2.2	536	15	2.9
Beverages and tobacco products	312	973	7	0.8	435	4	1.0	538	3	0.6
Textiles, apparel, and leather products	313-16	360	8	2.2	225	7	3.3	135	1	0.5
Wood products	321	99	2	2.1	83	2	2.4	16	*	0.4
Paper	322	308	7	2.2	164	5	3.2	144	2	1.1
Printing and related support activities	323	243	4	1.4	178	3	1.9	65	*	0.2
Petroleum and coal products	324	47	2	4.3	41	2	3.8	7	*	6.9
Chemicals	325	2,487	231	9.3	1,373	167	12.2	1,114	64	5.7
Basic chemicals	3251	361	20	5.5	239	14	6.0	122	6	4.6
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	262	11	4.3	144	7	4.8	118	4	3.7
Pesticides, fertilizers, and other agricultural chemicals	3253	119	14	11.8	70	9	13.5	49	5	9.4
Pharmaceuticals and medicines	3254	1,097	161	14.7	553	120	21.6	544	41	7.6
Soaps, cleaning compounds, and toilet preparations	3256	370	9	2.5	210	7	3.5	160	2	1.1
Paints, coatings, adhesives, and other chemicals	3255, 3259	278	16	5.6	157	10	6.1	120	6	4.9
Plastics and rubber products	326	662	27	4.2	496	24	4.9	166	3	1.9
Nonmetallic mineral products	327	235	8	3.6	156	7	4.7	79	1	1.3
Primary metals	331	282	7	2.5	204	6	3.0	78	1	1.2
Fabricated metal products	332	677	39	5.7	522	36	7.0	155	2	1.5
Machinery	333	1,648	114	6.9	989	82	8.3	658	31	4.8
Agricultural implements	33311	158	15	9.3	99	9	9.3	59	5	9.3
Semiconductor machinery	333242	47	13	26.9	28	9	34.0	19	3	16.7
Engines, turbines, and power transmission equipment	3336	197	15	7.5	115	10	8.5	82	5	6.0
Other machinery	other 333	1,246	72	5.7	748	54	7.2	498	18	3.6
Computer and electronic products	334	2,863	415	14.5	1,355	263	19.4	1,508	152	10.1
Communications equipment	3342	381	90	23.5	237	58	24.3	144	32	22.2
Semiconductors and other electronic components	3344	911	157	17.2	411	97	23.5	500	60	12.0
Navigational, measuring, electromedical, and control instruments	3345	850	92	10.9	476	66	14.0	374	26	6.9
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	144	20	14.0	78	14	17.8	66	6	9.6
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	287	33	11.5	206	29	14.1	80	4	4.7
Other measuring and controlling devices	other 3345	419	39	9.3	192	23	12.2	227	16	6.9
Other computer and electronic products	other 334	720	77	10.6	231	42	18.3	489	34	7.0
Electrical equipment, appliances, and components	335	774	53	6.8	330	28	8.6	444	24	5.5
Transportation equipment	336	3,045	255	8.4	1,754	185	10.5	1,291	70	5.4
Automobiles, bodies, trailers, and parts	3361-63	1,932	148	7.6	899	101	11.3	1,033	46	4.5

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Aerospace products and parts	3364	882	93	10.5	671	70	10.5	211	23	10.7
Aircraft, aircraft engines, and aircraft parts	336411-13	850	81	9.5	639	58	9.1	210	23	10.7
Guided missiles, space vehicles, and related parts	336414-15, 336419	32	12	37.5	32	12	37.7	*	*	4.5
Military armored vehicles, tanks, and tank components	336992	3	*	3.1	3	*	3.1	*	0	0.0
Other transportation	other 336	229	14	6.3	182	13	7.2	47	1	2.9
Furniture and related products	337	162	5	3.2	143	5	3.5	19	*	0.8
Miscellaneous manufacturing	339	1,030	83	8.1	604	62	10.3	427	21	4.9
Medical equipment and supplies	3391	692	62	9.0	395	47	12.0	298	15	5.0
Other miscellaneous manufacturing	3399	338	21	6.2	209	15	7.2	129	6	4.5
Nonmanufacturing industries	21-23, 42-81	11,709	871	7.4	8,764	627	7.2	2,945	243	8.3
Mining, extraction, and support activities	21	514	17	3.3	291	15	5.1	223	2	0.9
Utilities	22	397	3	0.7	381	3	0.7	17	*	1.0
Wholesale trade	42	385	26	6.8	326	25	7.7	60	1	1.5
Electronic shopping and electronic auctions	454111-12	197	7	3.6	105	6	5.6	92	1	1.4
Transportation and warehousing	48-49	960	2	0.2	826	2	0.2	133	*	*
Information	51	2,668	409	15.3	1,972	279	14.1	696	130	18.7
Publishing	511	1,067	247	23.1	646	146	22.6	421	100	23.9
Newspaper, periodical, book, and directory publishers	5111	14	1	6.1	13	1	6.4	2	*	4.3
Software publishers	5112	1,053	246	23.3	634	145	22.9	419	100	23.9
Telecommunications	517	898	25	2.8	833	24	2.9	64	1	1.8
Data processing, hosting, and related services	518	493	72	14.5	330	56	16.9	164	16	9.7
Other information	other 51	210	66	31.6	163	53	32.7	47	13	27.7
Finance and insurance	52	1,572	40	2.6	1,246	32	2.6	326	8	2.5
Real estate and rental and leasing	53	67	2	2.7	63	2	2.7	4	*	3.2
Lessors of nonfinancial intangible assets (except copyrighted works)	533	6	*	7.5	5	*	7.0	1	*	9.8
Other real estate and rental and leasing	other 53	61	1	2.2	58	1	2.3	3	*	0.9
Professional, scientific, and technical services	54	2,467	344	13.9	1,592	246	15.5	874	98	11.2
Architectural, engineering, and related services	5413	497	52	10.5	349	44	12.5	148	8	5.7
Computer systems design and related services	5415	1,169	136	11.6	587	92	15.7	582	44	7.5
Scientific research and development services	5417	339	122	36.0	264	82	31.2	75	40	52.8
Biotechnology research and development	541711	151	31	20.7	132	22	16.6	18	9	50.3
Physical, engineering, and life sciences (except biotechnology) research and development	541712	180	84	46.7	123	54	43.6	57	30	53.6
Social sciences and humanities research and development	541720	9	7	75.7	9	7	75.7	*	*	86.3
Other professional, scientific, and technical services	other 54	461	34	7.3	392	28	7.1	69	6	8.4
Health care services	621-23	380	6	1.5	376	5	1.4	4	*	8.6

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Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	2,102	15	0.7	1,586	13	0.8	516	2	0.5
All companies (number of domestic employees)	-	29,240	2,178	7.4	18,915	1,543	8.2	10,325	635	6.2
Micro companies ^a										
5-9	-	114	29	25.4	99	26	26.1	15	3	20.4
Small companies										
10-19	-	235	54	22.8	220	50	22.5	15	4	26.3
20-49	-	584	99	17.0	534	91	16.9	50	9	17.9
Medium companies										
50-99	-	629	90	14.2	575	83	14.4	54	7	12.1
100-249	-	1,059	118	11.1	855	100	11.7	204	18	8.8
Large companies										
250-499	-	1,006	99	9.9	805	86	10.7	201	14	6.7
500-999	-	1,170	102	8.7	801	77	9.6	369	25	6.6
1,000-4,999	-	4,355	388	8.9	2,676	254	9.5	1,678	134	8.0
5,000-9,999	-	3,216	227	7.1	1,668	147	8.8	1,548	80	5.2
10,000-24,999	-	4,951	336	6.8	2,935	228	7.8	2,016	108	5.3
25,000 or more	-	11,921	637	5.3	7,745	402	5.2	4,176	235	5.6

* = amount < 500 employees or less than 0.05%; 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.