

TABLE 74. Worldwide, domestic, and foreign all and R&D employment, by industry and company size: 2009

Industry and company size	NAICS code	Employment (thousands of employees)					
		Total			R&D		
		Worldwide	Domestic	Foreign	Worldwide	Domestic	Foreign
All industries	21-23, 31-33, 42-81	27,094	17,788	9,306	1,879	1,424	454
Manufacturing industries	31-33	16,679	9,882	6,798	1,137	850	287
Food	311	2,015	1,435	580	30	24	7
Beverage and tobacco products	312	339	112	227	4	2	2
Textiles, apparel, and leather products	313-316	269	175	94	6	5	1
Wood products	321	157	124	32	4	4	*
Paper	322	349	216	133	12	8	4
Printing and related support activities	323	184	170	14	4	3	*
Petroleum and coal products	324	185	85	101	3	2	1
Chemicals	325	2,286	1,287	999	201	157	44
Basic chemicals	3251	399	220	179	17	12	5
Resin, synthetic rubber, fibers, and filaments	3252	239	162	76 i	8	7	2
Pesticide, fertilizer, and other agricultural chemical	3253	75	49	25	6	5	2
Pharmaceuticals and medicines	3254	910	538	372	136	110	26
Soap, cleaning compound, and toilet preparation	3256	411	159	253	16	11	6
Paint, coating, adhesive, and other chemical	3255, 3259	251	159	93	17	13	4
Plastics and rubber products	326	667	459	208	30	22	8
Nonmetallic mineral products	327	263	204	59	6	5	*
Primary metals	331	367	256	112	7	7	1
Fabricated metal products	332	596	480	116	34	33	1
Machinery	333	1,388	799	589	82	65	18
Agricultural implements	33311	141	83	58	10	7	3
Semiconductor machinery	333295	39	24	15	8	6	2
Engine, turbine, and power transmission equipment	3336	120	74	46	7	5	1
Other machinery	other 333	1,089	618	471	57	46	11
Computer and electronic products	334	2,697	1,268	1,429	371	260	111
Communications equipment	3342	370	213	158	94	63	31
Semiconductor and other electronic components	3344	735	279	456	121	76	45
Navigational, measuring, electromedical, and control instruments	3345	980	565	415	101	83	18
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	285	159	126	25	22	3 i
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	353	228 i	126 i	48	41	7
Other measuring and controlling instruments	other 3345	341	178	163	27	20	7
Computer and peripheral equipment and other computer and electronic products	other 334	611	211	400	55	38	18
Electrical equipment, appliances, and components	335	739	320	419	45	25	21
Transportation equipment	336	3,055	1,748	1,307	220	167	53
Automobiles, bodies, trailers, and parts	3361-3363	1,722	753	969	87	55	32
Aerospace products and parts	3364	1,174	862	313	110	89	20
Aircraft, aircraft engine, and aircraft parts	336411-336413	949	663	286	100	81	19
Guided missile, space vehicle, and related parts	336414, 336415, 336419	225	198	27	9	8	1
Military armored vehicle, tank, and tank components	336992	3	3	1 i	*	*	*
Other transportation equipment	other 336	156	130 i	25 i	23 i	22 i	1 i
Furniture and related products	337	211	172	39	5	5	*

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Miscellaneous manufacturing	339	912	572	341	72	57	15
Medical equipment and supplies	3391	601	352	249	50	38	12
Other miscellaneous manufacturing	3399	311	219	92	22	19	3
Nonmanufacturing industries	21–23, 42–81	10,415	7,906	2,509	742	574	167
Mining, extraction, and support activities	21	444	235	210	11	9	2
Utilities	22	398	391	7	2	2	*
Construction	23	83	71	12	5	4	1
Wholesale trade	42	242	163	79	8 i	7 i	1 i
Retail trade	44, 45	383	371	11	5	3 i	1 i
Electronic shopping and mail-order houses	4541	45	38	7	4	3 i	1 i
Other retail trade	other 44, 45	338	334	4	*	*	*
Transportation and warehousing	48, 49	920	849	72	2	2	*
Information	51	2,499	1,795	704	295	206	89
Publishing	511	1,128	542	587	221	140	80
Newspaper, periodical, book, and directory publishers	5111	58	49	9	4	4	*
Software publishers	5112	1,071	493	578	217	137	80
Telecommunications	517	840	835	5	28 i	27 i	1
Data processing, hosting, and related services	518	210	155	55	27	23	4
Other information	other 51	320	262 i	58	18	15	3
Finance and insurance	52	1,399	1,115	284	27	22	4
Real estate and rental and leasing	53	54	48	6	1	1	*
Professional, scientific, and technical services	54	2,439	1,721	718	374	307	67
Architectural, engineering, and related services	5413	328	240	89	40	39	1
Computer systems design and related services	5415	1,090	756	333 i	154	117	37
Scientific R&D services	5417	284	234	50	107	85	21
Biotechnology R&D	541711	121	105	16 i	43	36	7
Physical, engineering, and life sciences (except biotechnology) R&D	541712	153	120	33	59	45	14
Social sciences and humanities R&D	541720	11	9 i	2	5	5 i	*
Other professional, scientific, and technical services	other 54	737	491	245	72	65	7
Health care services	621–623	271	266	5	6	6	*
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	1,283	882	401	7	6	1
All companies	–	27,094	17,788	9,306	1,879	1,424	454
Small companies (number of domestic employees) ^a							
5–499	–	3,832	3,045	787	504	459	45
5–99	–	1,803	1,471	332	314	295	19
5–49	–	1,099	869	231	208	197	12
5–24	–	585	429	156	122	116	6
25–49	–	515	440	75	86	81	6
50–99	–	703	602	101	106	99	7
100–249	–	1,112	853	259	105	91	14
250–499	–	918	721	197	84	72	12
Medium and large companies (number of domestic employees)							
500–999	–	1,083	795	288	83	64	20

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1,000–4,999	–	3,856	2,349	1,507	297	204	94
5,000–9,999	–	2,608	1,603	1,005	168	112	56
10,000–24,999	–	4,411	2,679	1,733	292	212	81
25,000 or more	–	11,302	7,316	3,986	533	374	160

* = amount < 500 employees; i = value > 50% of 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 small business; Business R&D and Innovation Survey (BRDIS) 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 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, 2009.