

TABLE 120. Worldwide, domestic, and foreign all and R&D employment, by industry and company size: 2010  
(Thousands)

Industry and company size	NAICS code	Worldwide employees			Domestic employees			Foreign employees		
		All	R&D	% R&D employees	All	R&D	% R&D employees	All	R&D	% R&D employees
All industries	21–23, 31–33, 42–81	29,195	1,924	6.6	18,638	1,412	7.6	10,557	512	4.9
Manufacturing industries	31–33	17,408	1,180	6.8	10,260	849	8.3	7,148	331	4.6
Food	311	2,305	29	1.2	1,541	22	1.5	764	6	0.8
Beverage and tobacco products	312	614	7	1.2	276	3	1.2	338	4	1.1
Textiles, apparel, and leather products	313–316	304	6	1.9	206	5	2.5	98	1	0.5
Wood products	321	132	2	1.7	109	2	2.0	24	*	*
Paper	322	356	12	3.3	209	8	3.8	147	4	2.7
Printing and related support activities	323	189	4	2.0	164	3	2.0	25	*	1.9
Petroleum and coal products	324	D	6	D	66	4	5.4	D	2	D
Chemicals	325	2,522	234	9.3	1,439	169	11.8	1,083	64	6.0
Basic chemicals	3251	332	18	5.5	198	12	6.1	134	6	4.5
Resin, synthetic rubber, fibers, and filaments	3252	218	7	3.2	136	5	3.8	82 i	2 i	2.2
Pesticide, fertilizer, and other agricultural chemical	3253	64	D	D	45	4	9.1	19	D	D
Pharmaceuticals and medicines	3254	1,065	160	15.0	619	120	19.5	446	39	8.8
Soap, cleaning compound, and toilet preparation	3256	483	18	3.6	252	12	4.7	231	6	2.5
Paint, coating, adhesive, and other chemical	3255, 3259	359	D	D	189	16	8.4	170	D	D
Plastics and rubber products	326	666	27	4.1	467	21	4.5	200	6	3.0
Nonmetallic mineral products	327	248	13	5.3	159	9	5.5	89	5	5.1
Primary metals	331	373	8	2.2	264	7	2.8	108	1	0.8
Fabricated metal products	332	543	29	5.4	451	27	6.1	93	2	1.9
Machinery	333	1,450	86	5.9	800	65	8.2	650 i	20	3.1
Agricultural implement	33311	140	9	6.4	80	7	8.8	60	2	3.3
Semiconductor machinery	333295	37	9	23.1	24	6	27.2	13	2	15.7
Engine, turbine, and power transmission equipment	3336	134	12	8.6	78	10	12.8	56	2	2.7
Other machinery	other 333	1,140	57	5.0	618	42	6.8	522 i	15	2.8
Computer and electronic products	334	2,782	390	14.0	1,393	266	19.1	1,389	124	8.9
Communications equipment	3342	354	85	24.0	212	55	26.0	142	30	21.0
Semiconductor and other electronic components	3344	747	133	17.9	290	80	27.8	457	53	11.6
Navigational, measuring, electromedical, and control instruments	3345	954	105	11.1	605	89	14.7	348	17	4.8
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	155	24	15.2	122	21	17.1	33	3	8.1
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	402	51	12.7	289	48	16.5	113	3	2.8
Other measuring and controlling instruments	other 3345	397	31	7.8	194	20	10.4	203 i	11	5.3
Other computer and electronic products	other 334	727	66	9.1	286	42	14.5	441	25	5.6
Electrical equipment, appliances, and components	335	820	51	6.2	351	29	8.4	469	22	4.6
Transportation equipment	336	2,950	215	7.3	1,670	155	9.3	1,280	60	4.7
Automobiles, bodies, trailers, and parts	3361–3363	1,642	88	5.4	709	50	7.1	933	38	4.1
Aerospace products and parts	3364	1,002	102	10.2	766	81	10.6	237	21	8.8
Aircraft, aircraft engine, and aircraft parts	336411–336413	D	96	D	658	75	11.4	D	21	D
Guided missile, space vehicle, and related parts	336414, 336415, 336419	D	7	D	108	6	6.0	D	*	D
Military armored vehicle, tank, and tank components	336992	4	*	8.7	4	*	8.7	0	0	0.0

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Other transportation	other 336	302 i	24 i	7.9	192 i	23 i	12.0	110 i	1 i	1.0
Furniture and related products	337	205	6	2.8	171	6	3.3	33	*	0.5
Miscellaneous manufacturing	339	D	56	D	524	46	8.8	D	10	D
Medical equipment and supplies	3391	483	38	7.8	307	33	10.6	176	5	2.9
Other miscellaneous manufacturing	3399	D	19	D	217	14	6.3	D	5	D
Nonmanufacturing industries	21–23, 42–81	11,787	744	6.3	8,378	563	6.7	3,409	181	5.3
Mining, extraction, and support activities	21	380	9	2.4	232	7	3.1	148	2	1.2
Utilities	22	402	4	0.9	394	3	0.9	8	*	1.6
Construction	23	273	13	4.9	239	13	5.3	34	1	1.9
Wholesale trade	42	388	15	3.9	309	14	4.6	79	1	0.9
Retail trade	44, 45	268	5	1.9	234	4	1.9	35	1	1.8
Electronic shopping and electronic auctions	454111, 454112	D	3	D	40	3	7.7	D	*	D
Other retail trade	other 44, 45	D	2	D	194	1	0.7	D	*	D
Transportation and warehousing	48, 49	1,164	2	*	834	2	*	330	*	*
Information	51	2,498	300	12.0	1,770	208	11.7	727	92	12.6
Publishing	511	1,147	226	19.7	549	145	26.3	598	81	13.6
Newspaper, periodical, book, and directory publishers	5111	52	4	8.3	40	4	9.8	12	*	3.1
Software publishers	5112	1,095	222	20.2	509	141	27.6	586	81	13.8
Telecommunications	517	850	18 i	2.1	843	17 i	2.0	8	2	21.0
Data processing, hosting, and related services	518	182	23	12.9	128	21	16.4	54	2	4.5
Other information	other 51	319	32	10.1	251	26	10.2	68	7	9.7
Finance and insurance	52	1,795	20	1.1	1,490	16	1.1	305	5	1.5
Real estate and rental and leasing	53	43	1	3.3	40	1	2.8	3	*	8.6
Professional, scientific, and technical services	54	2,405	339	14.1	1,564	260	16.6	841	79	9.4
Architectural, engineering, and related services	5413	545	41	7.6	434	39	9.0	111	2 i	2.1
Computer systems design and related services	5415	1,017	160	15.7	601	114	19.0	416 i	46	11.0
Scientific R&D services	5417	301	106	35.1	209	80	38.4	92	25	27.6
Biotechnology R&D	541711	129	31	24.2	74	25	33.1	55	7	12.3
Physical, engineering, and life sciences (except biotechnology) R&D	541712	165	71	43.0	128	52	41.0	37	18	50.2
Social sciences and humanities R&D	541720	7	3 i	47.8	7	3 i	47.2	*	*	71.2
Other professional, scientific, and technical services	other 54	542	32	5.8	320	26	8.0	222	6	2.6
Health care services	621–623	348	10	2.8	346	10	2.8	2 i	* i	7.6
Other nonmanufacturing	55, 56, 624, 71, 72, 81	1,823	26	1.4	925	25	2.7	898 i	1	*
All companies (number of employees)	–	29,195	1,924	6.6	18,638	1,412	7.6	10,557	512	4.9
Small companies (number of employees) <sup>a</sup>										
5–499	–	3,918	492	12.6	3,270	441	13.5	648	51	7.9
5–99	–	1,679	295	17.6	1,518	270	17.8	162	25	15.6
5–49	–	1,021	205	20.1	957	191	19.9	64	14	22.0
5–9	–	143	40	27.8	124	35	28.4	18	4	23.8
10–24	–	347	85	24.5	326	80	24.5	21	5	24.5
25–49	–	531	80	15.1	506	75	14.9	25	5	18.5

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50-99	-	659	90	13.7	561	79	14.1	97	11	11.5
100-249	-	1,329	115	8.7	1,020	102	10.0	309	13	4.3
250-499	-	909	83	9.1	732	70	9.6	177	13	7.1
Medium and large companies (number of employees)										
500-999	-	1,033	72	6.9	745	58	7.8	288	14	4.8
1,000-4,999	-	4,739	322	6.8	2,628	217	8.3	2,112	105	5.0
5,000-9,999	-	2,877	207	7.2	1,651	130	7.9	1,226	77	6.3
10,000-24,999	-	3,997	248	6.2	2,555	176	6.9	1,442	72	5.0
25,000 or more	-	12,631	583	4.6	7,788	390	5.0	4,842	193	4.0

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

NAICS = 2007 North American Industry Classification System.

<sup>a</sup> 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, 2010.