

TABLE 118. Worldwide, domestic, and foreign R&D employment, by sex, industry, and company size: 2010  
(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	1,924	1,437	487	1,412	1,060	352	512	376	135
Manufacturing industries	31-33	1,180	899	281	849	651	198	331	248	82
Food	311	29	17	12	22	13	10	6	4	3
Beverage and tobacco products	312	7	4	3	3	2	2	4	2	2
Textiles, apparel, and leather products	313-316	6	3	2	5	3	2	1	*	*
Wood products	321	2	2	*	2	2	*	*	*	*
Paper	322	12	9	3	8	6	2	4	3	1
Printing and related support activities	323	4	3	1	3	2	1	*	*	*
Petroleum and coal products	324	6	5	1	4	3	1	2	2	*
Chemicals	325	234	132	102	169	96	74	64	36	28
Basic chemicals	3251	18	13	5	12	9	3	6	4	2
Resin, synthetic rubber, fibers, and filaments	3252	7	6	1	5	4	1	2 i	1 i	* i
Pesticide, fertilizer, and other agricultural chemical	3253	D	5	D	4	3	1	D	2	D
Pharmaceuticals and medicines	3254	160	81	79	120	61	59	39	20	19
Soap, cleaning compound, and toilet preparation	3256	18	9	8	12	6	5	6	3	3
Paint, coating, adhesive, and other chemical	3255, 3259	D	18	D	16	12	4	D	6	D
Plastics and rubber products	326	27	22	5	21	17	4	6	5	1
Nonmetallic mineral products	327	13	10	3	9	7	2	5	3 i	1
Primary metals	331	8	7	1	7	7	1	1	1	*
Fabricated metal products	332	29	26	3	27	25	3	2	2	*
Machinery	333	86	77	8	65	60	6	20	18	2
Agricultural implement	33311	9	8	1	7	7	1	2	2	*
Semiconductor machinery	333295	9	7	1	6	6	1	2	2	*
Engine, turbine, and power transmission equipment	3336	12	10	1	10	9	1	2	1	*
Other machinery	other 333	57	51	6	42	38	4	15	13	2
Computer and electronic products	334	390	310	80	266	214	51	124	96	28
Communications equipment	3342	85	64	21	55	42	13	30	22	8
Semiconductor and other electronic components	3344	133	106	28	80	64	16	53	41	11
Navigational, measuring, electromedical, and control instruments	3345	105	86	19	89	73	16	17	13	4
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	24	18	5	21	16	5	3	2	1
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	51	43	7	48	41	7	3	3	*
Other measuring and controlling instruments	other 3345	31	25	6	20	16	4	11	8 i	3 i
Other computer and electronic products	other 334	66	55	12	42	35	7	25	20	5
Electrical equipment, appliances, and components	335	51	44	7	29	26	4	22	18	3
Transportation equipment	336	215	183	32	155	132	23	60	51	9
Automobiles, bodies, trailers, and parts	3361-3363	88	77	12	50	43	7	38	33	5
Aerospace products and parts	3364	102	87	16	81	69	13	21	18	3
Aircraft, aircraft engine, and aircraft parts	336411-336413	96	81	15	75	63	12	21	18	3
Guided missile, space vehicle, and related parts	336414, 336415, 336419	7	6	1	6	6	1	*	*	*
Military armored vehicle, tank, and tank components	336992	*	*	*	*	*	*	0	0	0
Other transportation	other 336	24 i	20 i	4 i	23 i	19 i	4 i	1 i	1 i	* i

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		Total	Male	Female	Total	Male	Female	Total	Male	Female
Furniture and related products	337	6	5	1	6	4	1	*	*	*
Miscellaneous manufacturing	339	56	42	15	46	34	12	10	7	3
Medical equipment and supplies	3391	38	27	10	33	24	9	5	4	1
Other miscellaneous manufacturing	3399	19	14	4	14	11	3	5	3	1
Nonmanufacturing industries	21-23, 42-81	744	538	206	563	410	153	181	128	53
Mining, extraction, and support activities	21	9	7	2	7	6	1	2	1	*
Utilities	22	4	3	1	3	3	1	*	*	*
Construction	23	13	11	2	13	10	2	1	1 i	* i
Wholesale trade	42	15	10	5	14	10	5	1	*	*
Retail trade	44, 45	5	4	1	4	3	1	1	*	*
Electronic shopping and electronic auctions	454111, 454112	3	3	1	3	2	1	*	*	*
Other retail trade	other 44, 45	2	1	1	1	1	*	*	*	*
Transportation and warehousing	48, 49	2	1	1	2	1	1	*	*	*
Information	51	300	233	67	208	160	48	92	73	19
Publishing	511	226	176	50	145	112	32	81	64	17
Newspaper, periodical, book, and directory publishers	5111	4	3	1	4	3	1	*	*	*
Software publishers	5112	222	173	49	141	109	32	81	64	17
Telecommunications	517	18 i	14 i	4 i	17 i	13 i	4 i	2	1	*
Data processing, hosting, and related services	518	23	17	7	21	15	6	2	2	1
Other information	other 51	32	26	6	26	20	5	7	6	1
Finance and insurance	52	20	11	9	16	9	7	5	3	2
Real estate and rental and leasing	53	1	1	*	1	1	*	*	*	*
Professional, scientific, and technical services	54	339	236	103	260	188	72	79	48	31
Architectural, engineering, and related services	5413	41	35	7	39	33	7	2 i	2 i	* i
Computer systems design and related services	5415	160	127	33	114	92	23	46	35	10
Scientific R&D services	5417	106	54	52	80	46	34	25	8	18
Biotechnology R&D	541711	31	15	17	25	12	12	7	3	4
Physical, engineering, and life sciences (except biotechnology) R&D	541712	71	37	33	52	32	20	18	5	13
Social sciences and humanities R&D	541720	3 i	2 i	2 i	3 i	2 i	2 i	*	*	*
Other professional, scientific, and technical services	other 54	32	21	11	26	17	9	6	4 i	2 i
Health care services	621-623	10	3	7	10	3	7	* i	* i	* i
Other nonmanufacturing	55, 56, 624, 71, 72, 81	26	17	9	25	16	9	1	1	*
All companies (number of employees)	-	1,924	1,437	487	1,412	1,060	352	512	376	135
Small companies (number of employees) <sup>a</sup>										
5-499	-	492	384	108	441	343	99	51	41	10
5-99	-	295	234	61	270	213	56	25	21	4
5-49	-	205	162	43	191	151	40	14	11	3
5-9	-	40	27	12	35	24	11	4	3	1
10-24	-	85	70	15	80	65	15	5	4	1
25-49	-	80	65	15	75	61	14	5	4	1
50-99	-	90	72	18	79	63	16	11	9	2
100-249	-	115	88	27	102	77	25	13	11	3

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		Total	Male	Female	Total	Male	Female	Total	Male	Female
250-499	-	83	62	20	70	53	18	13	10	3
Medium and large companies (number of employees)										
500-999	-	72	55	17	58	44	14	14	11	3
1,000-4,999	-	322	239	82	217	160	57	105	79	25
5,000-9,999	-	207	142	65	130	92	38	77	50	27
10,000-24,999	-	248	178	70	176	127	49	72	51	21
25,000 or more	-	583	439	144	390	295	95	193	144	50

\* = 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.