

TABLE 79. Domestic R&D employment, by occupation, sex, industry, and company size: 2009  
(Thousands of employees)

Industry and company size	NAICS code	Engineers and their managers			Scientists and their managers			Technicians and technologists			Support staff (clerical and others)		
		Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All industries	21-23, 31-33, 42-81	807	685	122	192	119	73	247	180	67	179	92	86
Manufacturing industries	31-33	477	417	60	119	74	45	138	105	33	116	63	53
Food	311	4	3	1	7	4	3	6	3	3	6	4	3
Beverage and tobacco products	312	1	*	*	1	*	*	*	*	*	*	*	*
Textiles, apparel, and leather products	313-316	1	1	*	*	*	*	2	1	1	1	1	1
Wood products	321	1	1	*	*	*	*	1	*	*	1	1	*
Paper	322	3	D	D	3	D	D	1	1	*	1	D	D
Printing and related support activities	323	1	1	*	*	*	*	1	1	*	1	1	*
Petroleum and coal products	324	1	D	D	*	D	D	1	*	*	*	D	D
Chemicals	325	21	16	5	77	44	33	30	18	13	29	10	18
Basic chemicals	3251	3	2	*	5	4	1	3	2	1	1	1	1
Resin, synthetic rubber, fibers, and filaments	3252	1	1	*	2	2	*	3	D	D	1	*	*
Pesticide, fertilizer, and other agricultural chemical	3253	*	*	*	3	2	1	1	D	D	1	*	*
Pharmaceuticals and medicines	3254	9	7	2	58	31	27	19	9	9	24	8	16
Soap, cleaning compound, and toilet preparation	3256	4	2	1	5	2	2	1	1	1	1	*	1
Paint, coating, adhesive, and other chemical	3255, 3259	4	3	1	5	4	1	3	3	1	1	1	1
Plastics and rubber products	326	9	8	1	3	2	1	6	5	1	4	3	1
Nonmetallic mineral products	327	2	2	*	1	1	*	1	1	*	2	1	*
Primary metals	331	2	2	*	*	*	*	2	2	*	2	2	*
Fabricated metal products	332	15	14	1	1	1	*	10	9	1	8	6	2
Machinery	333	45	42	4	1	1	*	12	11	1	6	4	2
Agricultural implements	33311	5	5	*	*	*	*	1	1	*	1	1	*
Semiconductor machinery	333295	5	4	*	*	*	*	1	1	*	*	*	*
Engine, turbine, and power transmission equipment	3336	3	3	*	*	*	*	1	1	*	1	*	*
Other machinery	other 333	32	30	3	1	1	*	9	8	*	4	3	1
Computer and electronic products	334	203	176	27	9	7	2 i	28	22	6	20	9	10
Communications equipment	3342	53	46	7	* i	* i	* i	5 i	4 i	1	5	3	2
Semiconductor and other electronic components	3344	61	54	8	3	2	*	8	7	2	4	2	2
Navigational, measuring, electromedical, and control instruments	3345	56	49	7	5	4	1 i	13	10	3	9 i	3	6 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	14	12	2	2 i	1 i	1 i	3	2	1 i	2 i	1 i	1 i
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	28	25	4	1	1	*	7	5	1	5 i	1	4 i
Other measuring and controlling instruments	other 3345	13	12	1	2	1	1	3	2	1	2	1	1
Computer and peripheral equipment and other computer and electronic products	other 334	33	28	5	1	1 i	* i	2	1	*	2	1	1
Electrical equipment, appliances, and components	335	16	15	1	1	1	*	5	5	1	2	1	1
Transportation equipment	336	123	109	15	5	4	1	18	16	2	20 i	13 i	7 i
Automobiles, bodies, trailers, and parts	3361-3363	42	37	5	2	2	*	7	6	1	4	3	1

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Aerospace products and parts	3364	69	61	8	3	2	1	7	6	1	10 i	6 i	4 i
Aircraft, aircraft engine, and aircraft parts	336411-336413	62	55	7	2	2	*	6	5	1	10 i	6 i	4 i
Guided missile, space vehicle, and related parts	336414, 336415, 336419	7	7	1	*	*	*	*	*	*	*	*	*
Military armored vehicle, tank, and tank components	336992	*	*	*	*	*	0	*	*	*	*	*	*
Other transportation equipment	other 336	12 i	10 i	1 i	* i	* i	* i	5 i	4 i	1 i	6 i	4 i	2 i
Furniture and related products	337	3	2	*	*	*	*	1	1	*	1	1	*
Miscellaneous manufacturing	339	25	22	4	9 i	5 i	4 i	12	8	4	11	5	5
Medical equipment and supplies	3391	16	13	3	8 i	4 i	3 i	7	4	2	7	3	4
Other miscellaneous manufacturing	3399	10	9	1	1	1	*	5	3	1	3	2	1
Nonmanufacturing industries	21-23, 42-81	330	269	62	73	45	28	109	75	34	63	29	34
Mining, extraction, and support activities	21	5	5	1	1	1	*	1	1	*	1	*	*
Utilities	22	1	1	*	*	*	*	1	1	*	*	*	*
Construction	23	3	3 i	* i	*	*	*	*	*	*	*	*	*
Wholesale trade	42	3 i	2 i	* i	1 i	* i	* i	2 i	1 i	1 i	1 i	1 i	* i
Retail trade	44, 45	3 i	2 i	1 i	*	*	*	*	*	*	*	*	*
Electronic shopping and mail-order houses	4541	3 i	2 i	1 i	*	*	*	*	*	*	*	*	*
Other retail trade	other 44, 45	*	*	*	*	*	*	*	*	*	*	*	*
Transportation and warehousing	48, 49	1 i	1 i	* i	*	*	*	1	1	*	*	*	*
Information	51	161	127	34	6	5	1	24	18	6	15	10	5
Publishing	511	112	88	24	5	4	1	12	9	3	12	8	4
Newspaper, periodical, book, and directory publishers	5111	*	*	*	*	*	*	*	*	*	3	2	1
Software publishers	5112	112	87	24	5	4	1	11	9	3	9	6	3
Telecommunications	517	24 i	20 i	4 i	* i	* i	* i	2 i	1 i	* i	1 i	1 i	1 i
Data processing, hosting, and related services	518	17	13	4 i	1	*	*	5	3	2	1	1	*
Other information	other 51	8	6	1	*	*	*	6	4	1	1	1	1
Finance and insurance	52	10 i	7 i	2 i	1 i	* i	* i	10	6	4	2 i	1 i	1 i
Real estate and rental and leasing	53	1	1	*	*	*	*	*	*	*	*	*	*
Professional, scientific, and technical services	54	140	117	23	60	36	24	67	47	20	39	15	24
Architectural, engineering, and related services	5413	25	21	3	2	2	*	8	7	2	4	2	2
Computer systems design and related services	5415	73	62	11	6	4	2	31	25	6	7	3	3
Scientific R&D services	5417	19	15	4	29	17	13	19	9	10	18	6	12
Biotechnology R&D	541711	4	2	2	19	10	8	7	3	4	6	2	4
Physical, engineering, and life sciences (except biotechnology) R&D	541712	14	12	2	9	6	3	11	6	5	11	3	8
Social sciences and humanities R&D	541720	1 i	1 i	* i	2	1 i	1	1 i	* i	1	1 i	* i	1 i
Other professional, scientific, and technical services	other 54	23	19	4	23	14	9	9	6	3	10	4	6
Health care services	621-623	*	*	*	2	1	1	1	*	1	2	1	1
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	2	2	*	1	1	1	2	1	1 i	1	*	1

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		Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All companies	-	807	685	122	192	119	73	247	180	67	179	92	86
Small companies (number of domestic employees) <sup>a</sup>													
5-499	-	229	203	26	67	43	24	100	78	23	62	35	27
5-99	-	146	131	15	46	29	17	64	50	14	39	22	17
5-49	-	97	88	9	26	17	8	46	36	11	28	15	13
5-24	-	59	54	5	13	10	4	27	20	7	17	9	8
25-49	-	38	34	4	12	8	5	20	15	4	11	7	5
50-99	-	50	43	6	20	12	8	18	15	4	11	6	4
100-249	-	47	41	6	9	6	3	22	17	5	14	9	5
250-499	-	36	31	5	12	7	5 i	14	11	4	10	5	5
Medium and large companies (number of domestic employees)													
500-999	-	32	28	5	10	6	3	14	10	4	8	4	4
1,000-4,999	-	120	100	20	28	17	10	32	22	10	25	13	12
5,000-9,999	-	58	48	11	13	8	5	20	14	6	20	10	10
10,000-24,999	-	117	99	17	41	24	17	29	22	8	25	10	15
25,000 or more	-	251	208 i	43	34	21	12	51	35	16	39 i	21 i	18 i

\* = amount < 500 employees; D = data withheld to avoid disclosing operations of individual companies; i = more than 50% of value imputed.

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, 2009.