

TABLE 50. Domestic full-time equivalent R&D employees and R&D scientists and engineers, by work status, industry, and company size: 2012
(Thousands)

Industry and company size	NAICS code	Total	FTE R&D employees ^a			FTE R&D scientists and engineers ^b			
			Full-time R&D employees	Full-time employees working on R&D part-time	Part-time employees working on R&D	Total	Full-time R&D employees	Full-time employees working on R&D part-time	Part-time employees working on R&D
All industries	21-23, 31-33, 42-81	1,251	1,113	118 i	21	869	792	65 i	13 i
Manufacturing industries	31-33	758	674	71 i	13	544	496	40 i	9
Food	311	20	17 i	2 i	* i	12 i	11 i	1 i	* i
Beverage and tobacco products	312	3	2	* i	*	2	1	* i	*
Textile, apparel, and leather products	313-16	6	4 i	1 i	*	2 i	1 i	* i	*
Wood products	321	6 i	3 i	3 i	* i	1	1	* i	0
Paper	322	6	5 i	1 i	* i	3 i	2 i	* i	* i
Printing and related support activities	323	3	1 i	2 i	0	1 i	*	* i	0
Petroleum and coal products	324	4 i	2 i	2 i	* i	3 i	1 i	1 i	* i
Chemicals	325	147	143	3	1	99	97	1	1
Basic chemicals	3251	14	13	1	*	7	7	* i	*
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	6	5	*	*	3	3	*	*
Pesticide, fertilizer, and other agricultural chemical	3253	6	6	* i	* i	4	4	* i	* i
Pharmaceuticals and medicines	3254	102	100	1	1	70	69	1	*
Soap, cleaning compound, and toilet preparation	3256	10	10	*	*	9	8	*	*
Paint, coating, adhesive, and other chemicals	3255, 3259	9	9	*	*	5	5 i	*	*
Plastics and rubber products	326	22	17 i	3 i	2 i	13 i	10 i	2 i	1 i
Nonmetallic mineral products	327	7	5 i	2 i	* i	4 i	3 i	1 i	* i
Primary metals	331	5	3	3 i	*	2	1	1 i	*
Fabricated metal products	332	20	13 i	7 i	* i	10 i	7 i	3 i	* i
Machinery	333	74	67	6	1	55	51	4 i	*
Agricultural implement	33311	8	7	*	*	6	6	*	*
Semiconductor machinery	333295	7	7	*	*	5	4	*	*
Engine, turbine, and power transmission equipment	3336	21	20	1	*	18	17	1	*
Other machinery	other 333	38	33	5 i	*	27	24	3 i	* i
Computer and electronic products	334	243	221	15	7	195	178	11	6
Communications equipment	3342	52	51	*	* i	44	43	*	*
Semiconductor and other electronic components	3344	88	80	1	6 i	70	64	1	5
Navigational, measuring, electromedical, and control instruments	3345	67	53	13	1	49	39	9	*
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	22	22	*	*	15	15	*	*
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	23	13	10	*	18	10	8	*
Other measuring and controlling device	other 3345	21	19 i	2 i	*	16 i	15 i	2 i	* i
Other computer and electronic products	other 334	37	36	1	*	31 i	31 i	1	* i
Electrical equipment, appliances, and components	335	22	20	2	*	16	15	1 i	* i
Transportation equipment	336	115	101	14	1	93	84	9 i	*
Automobiles, bodies, trailers, and parts	3361-63	54	49	5 i	*	42	40	3 i	*
Aerospace products and parts	3364	56 i	48 i	8	*	48 i	42 i	6	*

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Aircraft, aircraft engine, and aircraft parts	336411-13	52 i	45 i	8	*	45 i	39 i	6	*
Guided missile, space vehicle, and related parts	336414-15, 336419	4	4	*	*	3	3	*	*
Military armored vehicle, tank, and tank component	336992	*	*	*	0	*	*	*	0
Other transportation	other 336	5	3 i	1	* i	2	2	* i	* i
Furniture and related products	337	3	3 i	* i	*	2 i	1 i	* i	0
Miscellaneous manufacturing	339	52	47	4	1	35	32	3	*
Medical equipment and supplies	3391	38	34	3	1	26	24	2	*
Other miscellaneous manufacturing	3399	15	13	1	*	9	8	1	*
Nonmanufacturing industries	21-23, 42-81	493	439 i	47 i	7 i	325 i	296	25 i	4 i
Mining, extraction, and support activities	21	9	7	1 i	*	4	4	1 i	*
Utilities	22	1	1	1	*	1	1	*	*
Wholesale trade	42	20 i	18 i	1 i	* i	7 i	6 i	1 i	*
Electronic shopping and electronic auctions	454111-12	7 i	6 i	1 i	* i	1 i	1 i	* i	* i
Transportation and warehousing	48-49	3	3 i	*	*	1 i	1 i	*	*
Information	51	215	202	10 i	3 i	166	158	6 i	2 i
Publishing	511	144	138	4	2 i	121	116	3 i	2 i
Newspaper, periodical, book, and directory publishers	5111	2 i	2 i	* i	* i	1 i	1 i	* i	0
Software publishers	5112	142	136	4	2 i	120	115	3 i	2 i
Telecommunications	517	13 i	11 i	1 i	*	8 i	8 i	1 i	0
Data processing, hosting, and related services	518	30	26	4 i	*	16	14	1 i	*
Other information	other 51	28	27	1 i	* i	21	20	1 i	* i
Finance and insurance	52	14	12	3	*	6	5	1	*
Real estate and rental and leasing	53	1	1	*	*	1	1 i	* i	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	1	1	*	*	1	1 i	* i	0
Other real estate and rental and leasing	other 53	* i	* i	* i	0	* i	* i	* i	0
Professional, scientific, and technical services	54	202	175 i	23 i	4	128 i	112 i	14 i	2 i
Architectural, engineering, and related services	5413	26	19 i	6 i	1 i	19 i	14 i	4 i	1 i
Computer systems design and related services	5415	80	71 i	8 i	1	59 i	53 i	6 i	1 i
Scientific research and development services	5417	69	63	4	2	34	32	1	1
Biotechnology research and development	541711	23	21	1	1	15	14	1	*
Physical, engineering, and life sciences (except biotechnology) research and development	541712	43	39	3	1	19	17	1	*
Social sciences and humanities research and development	541720	3 i	2 i	1 i	* i	*	*	* i	* i
Other professional, scientific, and technical services	other 54	27	22 i	5	* i	17 i	14 i	3	* i
Health care services	621-23	3	3 i	* i	* i	1 i	1 i	* i	* i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	17	11 i	6 i	* i	8 i	6 i	2 i	* i

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All companies (number of domestic employees)	-	1,251	1,113	118 i	21	869	792	65 i	13 i
Small companies ^c									
5-499	-	348	295 i	48 i	5 i	208 i	180 i	25 i	3 i
5-99	-	202	176 i	24 i	2 i	119 i	105 i	12 i	1 i
5-49	-	141	125 i	16 i	1	82 i	73 i	8 i	1 i
5-9	-	29	27 i	2 i	*	16 i	15 i	1 i	*
10-24	-	59	52 i	7 i	*	35 i	31 i	4 i	*
25-49	-	54	46 i	7 i	1 i	31 i	27 i	3 i	1 i
50-99	-	60	51 i	8 i	1 i	37 i	32 i	4 i	1 i
100-249	-	82	67 i	14 i	1 i	49 i	41	7 i	1 i
250-499	-	64	53	10	1 i	40	34	5	* i
Medium and large companies									
500-999	-	57	49	8	1 i	37	33	4	* i
1,000-4,999	-	203	179	21	3 i	139	128	9 i	2 i
5,000-9,999	-	130	119	9	2	84	79	4	1 i
10,000-24,999	-	171	154	12 i	5	114	103	7 i	4
25,000 or more	-	342	315	21	6 i	287	269	14	4 i

* = amount < 500; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

FTE = full-time equivalent; NAICS = 2007 North American Industry Classification System.

^a Includes scientists and engineers and their managers and also technicians, technologists, and support staff.

^b Includes scientists and engineers and their managers.

^c The upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

NOTES: Detail may not add to total because of rounding. The 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: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2012.