

TABLE 53. Domestic full-time equivalent R&D employees and R&D scientists and engineers, by work status, industry, and company size: 2014
(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	1,366	1,197	152	16	960	864	88 i	8 i
Manufacturing industries	31-33	828	734	86	8	592	537	51 i	5 i
Food	311	22	21 i	1	*	14 i	13 i	* i	* i
Beverages and tobacco products	312	3	3	* i	*	2	2	* i	*
Textiles, apparel, and leather products	313-16	6	5	1	*	3	2	*	*
Wood products	321	3 i	3 i	* i	* i	2 i	2 i	* i	* i
Paper	322	7 i	6 i	1 i	* i	3 i	3	* i	*
Printing and related support activities	323	3	2	1 i	*	2	1	*	*
Petroleum and coal products	324	1	1	*	*	1	1	*	*
Chemicals	325	168	163	4	1	114	112	2	*
Basic chemicals	3251	15	14	1	*	8	8	1	*
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	6	5	*	*	4	3 i	*	* i
Pesticides, fertilizers, and other agricultural chemicals	3253	6 i	5 i	* i	*	4 i	4 i	* i	* i
Pharmaceuticals and medicines	3254	120	118	2	1	84	82	1	*
Soaps, cleaning compounds, and toilet	3256	11	11	*	*	9	9	*	*
Paints, coatings, adhesives, and other chemicals	3255, 3259	10	9	*	*	6	6	* i	*
Plastics and rubber products	326	21	16 i	4	*	12 i	11 i	2 i	*
Nonmetallic mineral products	327	7	6 i	1 i	* i	4 i	3 i	1 i	* i
Primary metals	331	5	2	3	*	2	1	1	*
Fabricated metal products	332	23	13 i	10 i	* i	11 i	7 i	3 i	* i
Machinery	333	65	56	9	*	46	41	5	* i
Agricultural implements	33311	8	8	*	*	6	6	*	*
Semiconductor machinery	333295	8	7	* i	*	6	6	* i	*
Engines, turbines, and power transmission equipment	3336	11	11	1	*	9	9	*	*
Other machinery	other 333	38	29 i	8 i	* i	25 i	21 i	4 i	* i
Computer and electronic products	334	264	238	23	3	205	185	17	2 i
Communications equipment	3342	58	50 i	8	* i	49 i	44 i	5 i	* i
Semiconductors and other electronic components	3344	104	101	2 i	2	87	84 i	1 i	2 i
Navigational, measuring, electromedical, and control instruments	3345	69	55	13	1	51	39	11	1
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	14	13	*	*	10	9	*	* i
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	30	19	11	*	23	14	9	*
Other measuring and controlling devices	other 3345	25	23 i	1 i	*	18 i	16 i	1 i	*

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Other computer and electronic products	other 334	33	32	* i	*	19 i	18 i	* i	* i
Electrical equipment, appliances, and components	335	30	26	3	*	21	19	2	*
Transportation equipment	336	140	118	21	1	108	94	13 i	1
Automobiles, bodies, trailers, and parts	3361-63	84	77	6	*	66	62	3 i	*
Aerospace products and parts	3364	46	36	9	1	37	29	7	1
Aircraft, aircraft engines, and aircraft parts	336411-13	43	34	9	1	34	27	6	*
Guided missiles, space vehicles, and related parts	336414-15, 336419	3 i	2 i	1	*	3 i	2 i	*	*
Military armored vehicles, tanks, and tank components	336992	* i	* i	*	0	* i	* i	*	0
Other transportation	other 336	11 i	5 i	6 i	*	6 i	3 i	3 i	* i
Furniture and related products	337	4	4 i	1 i	*	2 i	2 i	* i	* i
Miscellaneous manufacturing	339	56	51	5	1	40	36	3	*
Medical equipment and supplies	3391	41	37	4	1	30	27	2	*
Other miscellaneous manufacturing	3399	15	14	1	*	10	9 i	1	* i
Nonmanufacturing industries	21-23, 42-81	537	463	66 i	8	368	327	38 i	3
Mining, extraction, and support activities	21	16	15	1	*	9	8	1	*
Utilities	22	1	1	*	0	1	1	*	0
Wholesale trade	42	6	3 i	3 i	*	4 i	1 i	2 i	* i
Electronic shopping and electronic auctions	454111-12	1	1 i	* i	* i	1 i	* i	* i	* i
Transportation and warehousing	48-49	2 i	2 i	* i	*	1 i	1 i	* i	*
Information	51	281	255	23	3	208	195	12 i	1
Publishing	511	160	154	4	2	128	124	3 i	1
Newspaper, periodical, book, and directory publishers	5111	1	1 i	*	0	* i	* i	0	0
Software publishers	5112	159	153	4	2	128	123	3 i	1
Telecommunications	517	24	12	13	*	16 i	10	6 i	*
Data processing, hosting, and related services	518	52	45	5	2 i	31	28	2	* i
Other information	other 51	45	44	1	*	33	33	*	*
Finance and insurance	52	14	12	2	*	5 i	5 i	*	*
Real estate and rental and leasing	53	2	1	* i	*	1 i	1 i	* i	* i
Lessors of nonfinancial intangible assets (except copyrighted works)	533	*	*	0	*	* i	* i	0	* i
Other real estate and rental and leasing	other 53	1	1	* i	0	1	1	* i	0
Professional, scientific, and technical services	54	198	163 i	30 i	4	131 i	110 i	20 i	1 i
Architectural, engineering, and related services	5413	35	24 i	10 i	1 i	24 i	18 i	6 i	* i
Computer systems design and related services	5415	68	56 i	12 i	* i	53 i	43 i	10 i	* i
Scientific R&D services	5417	67	61	4	2	37	35	2	1
Biotechnology R&D	541711	15	14	1 i	*	9	9	* i	*

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Physical, engineering, and life sciences (except biotechnology) R&D	541712	48	43	3	1	28	25	2	1
Social sciences and humanities R&D	541720	5 i	4 i	* i	* i	* i	* i	* i	* i
Other professional, scientific, and technical services	other 54	27	22 i	4	1	18 i	15 i	3 i	* i
Health care services	621-23	5	2 i	3	*	2 i	1 i	1 i	* i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	11	9 i	2 i	* i	5 i	4 i	1 i	*
All companies (number of domestic employees)	-	1,366	1,197	152	16	960	864	88 i	8 i
Small companies ^c									
5-499	-	348	285 i	60 i	3	233 i	198 i	34 i	2 i
5-99	-	201	167 i	32 i	2	138 i	117 i	20 i	1 i
5-49	-	137	114 i	22 i	1 i	95 i	80 i	15 i	1 i
5-9	-	23	20 i	3 i	*	17 i	15 i	2 i	*
10-24	-	55	47 i	8 i	1	38 i	32 i	6 i	*
25-49	-	59	47 i	10 i	1 i	40 i	33 i	7 i	* i
50-99	-	64	53 i	10 i	1	43 i	37 i	6 i	*
100-249	-	81	65	14 i	1	52	45	7 i	* i
250-499	-	67	52	13	1	43	36	6	*
Medium and large companies									
500-999	-	63	54	9	*	43	38	5	* i
1,000-4,999	-	235	209	22	4	161	147	13	1
5,000-9,999	-	143	125	16	1 i	95	87	7 i	1 i
10,000-24,999	-	194	178	13 i	3	136	125	9 i	2 i
25,000 or more	-	383	346	33	3	291	268	21 i	2

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

FTE = full-time equivalent; NAICS = 2012 North American Industry Classification System.

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

^b Includes scientists, engineers, and their managers.

^c 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. 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, 2014.