

TABLE 56

## Domestic full-time equivalent R&amp;D employees and R&amp;D scientists and engineers, by work status, industry, and company size: 2015

(Thousands)

Industry and company size	NAICS code	FTE R&D employees <sup>a</sup>				FTE R&D scientists and engineers <sup>b</sup>			
		Total	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	1,399	1,233	149	17	981	886	85	10
Manufacturing industries	31-33	832	732	90	10	599	540	53	6
Food	311	21	20	i 1	*	11	11	i 1	* i
Beverages and tobacco products	312	4	4	*	*	3	3	*	*
Textiles, apparel, and leather products	313-16	6	5	1	*	3	2	*	*
Wood products	321	2	1	*	*	1	1	*	i *
Paper	322	4	3	*	i *	3	2	*	*
Printing and related support activities	323	2	1	i 1	i *	1	1	i *	i *
Petroleum and coal products	324	1	1	*	*	1	1	*	*
Chemicals	325	165	159	5	1	110	107	3	*
Basic chemicals	3251	14	13	1	*	9	8	*	*
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	7	6	1	*	4	4	i *	i *
Pesticides, fertilizers, and other agricultural chemicals	3253	9	8	1	*	5	5	*	*
Pharmaceuticals and medicines	3254	119	116	2	1	81	79	1	i *
Soaps, cleaning compounds, and toilet preparations	3256	7	7	*	*	6	6	*	*
Paints, coatings, adhesives, and other chemicals	3255, 3259	9	9	*	*	5	5	*	i *
Plastics and rubber products	326	19	13	i 6	i *	10	8	i 2	i *
Nonmetallic mineral products	327	6	5	1	*	3	2	*	*
Primary metals	331	4	2	3	*	2	1	1	*
Fabricated metal products	332	27	16	i 10	i *	12	8	i 4	i *
Machinery	333	71	59	12	*	49	41	7	*
Agricultural implements	33311	9	8	*	*	6	6	*	*
Semiconductor machinery	333242	8	8	*	*	6	6	*	* i
Engines, turbines, and power transmission equipment	3336	9	6	3	*	8	5	3	*
Other machinery	other 333	44	36	i 8	i *	28	24	i 4	i *
Computer and electronic products	334	251	226	i 21	4	209	190	i 16	3 i
Communications equipment	3342	56	50	i 5	i *	47	43	i 4	i *
Semiconductors and other electronic components	3344	93	88	i 3	i 3	81	77	i 2	i 2
Navigational, measuring, electromedical, and control instruments	3345	60	47	13	1	47	37	10	*
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	12	12	i *	i *	9	8	i *	i *
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	27	15	11	*	22	12	9	*
Other measuring and controlling devices	other 3345	22	20	1	*	17	16	1	i *
Other computer and electronic products	other 334	42	41	i 1	i *	33	33	i *	i *
Electrical equipment, appliances, and components	335	26	24	2	*	19	17	i 1	* i
Transportation equipment	336	161	136	23	1	120	105	14	i 1

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		Total	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
Automobiles, bodies, trailers, and parts	3361-63	94	85	9	*	71	66	5	*
Aerospace products and parts	3364	55	43	11	1	42	34	8	*
Aircraft, aircraft engines, and aircraft parts	336411-13	45	34	10	*	35	27	7	*
Guided missiles, space vehicles, and related parts	336414-15, 336419	10	9	1	*	7	6	*	*
Military armored vehicles, tanks, and tank components	336992	*	*	*	*	*	*	*	*
Other transportation	other 336	12	8	3	*	6	5	2	*
Furniture and related products	337	3	3	1	*	2	1	*	*
Miscellaneous manufacturing	339	59	54	4	1	41	38	2	1
Medical equipment and supplies	3391	46	41	3	1	32	29	2	1
Other miscellaneous manufacturing	3399	14	13	1	*	9	8	*	*
Nonmanufacturing industries	21-23, 42-81	567	501	58	8	382	346	32	4
Mining, extraction, and support activities	21	14	13	1	*	7	7	*	*
Utilities	22	2	1	1	*	1	*	*	*
Wholesale trade	42	18	13	4	*	9	8	1	*
Electronic shopping and electronic auctions	454111-12	3	1	2	*	2	1	1	*
Transportation and warehousing	48-49	2	2	*	*	1	1	*	*
Information	51	269	243	24	2	199	185	14	1
Publishing	511	141	135	6	1	112	107	4	*
Newspaper, periodical, book, and directory publishers	5111	1	1	0	0	*	*	0	0
Software publishers	5112	140	134	6	1	111	107	4	*
Telecommunications	517	23	11	12	*	15	9	6	0
Data processing, hosting, and related services	518	52	46	6	1	33	29	3	*
Other information	other 51	52	51	1	*	40	39	*	*
Finance and insurance	52	26	23	3	*	10	9	*	*
Real estate and rental and leasing	53	2	1	*	*	1	1	*	*
Lessors of nonfinancial intangible assets (except copyrighted works)	533	*	*	0	*	*	*	0	0
Other real estate and rental and leasing	other 53	1	1	*	*	1	1	*	*
Professional, scientific, and technical services	54	219	192	21	5	144	129	13	2
Architectural, engineering, and related services	5413	34	24	10	1	25	18	6	1
Computer systems design and related services	5415	82	75	6	1	68	63	4	1
Scientific research and development services	5417	78	73	3	2	37	35	1	1
Biotechnology research and development	541711	21	20	1	*	11	10	*	*
Physical, engineering, and life sciences (except biotechnology) research and development	541712	51	48	1	1	26	24	1	*
Social sciences and humanities research and development	541720	6	5	1	1	*	*	*	*
Other professional, scientific, and technical services	other 54	25	21	3	*	14	13	2	*

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		Total	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				
Health care services	621-23	5	5	i	*	i	*	i	2	i	2	i	*	i	*	i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	9	7	i	2	i	*	i	6	i	4	i	1	i	*	i
All companies (number of domestic employees)	-	1,399	1,233		149		17		981		886		85	i	10	
Micro companies <sup>c</sup>																
5-9	-	21	19	i	2	i	*		15	i	14	i	1	i	*	
Small companies																
10-19	-	42	38	i	4	i	*		30	i	27	i	2	i	*	
20-49	-	75	64	i	11	i	1		52	i	45	i	6	i	*	i
Medium companies																
50-99	-	67	54	i	13	i	1	i	44	i	37	i	7	i	*	
100-249	-	80	62		17		1		50		42		8	i	*	i
Large companies																
250-499	-	73	60		13		1		47		39		7		*	
500-999	-	68	59		8		1	i	46		42		4	i	*	i
1,000-4,999	-	231	204		24		3		162		147		13		1	i
5,000-9,999	-	139	126		11		2	i	95		89		6	i	*	i
10,000-24,999	-	217	202		11	i	4		147		137		7	i	3	
25,000 or more	-	384	345		36		4		293		266		24		3	

\* = amount &lt; 500; i = &gt; 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.

<sup>a</sup> Includes scientists and engineers and their managers as well as technicians, technologists, and support staff.<sup>b</sup> Includes scientists and engineers and their managers.<sup>c</sup> Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.**Note(s)**

Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&amp;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&amp;D.

**Source(s)**

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&amp;D and Innovation Survey, 2015.