

TABLE 37. Domestic full-time equivalent R&D employees and R&D scientists and engineers, by work status, industry, and company size: 2011
(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	1,231	1,061	154 i	17	853	764	81 i	7 i
Manufacturing industries	31-33	723	623	91 i	8	520	466	50 i	4 i
Food	311	24	20	2 i	1	12 i	11	1 i	* i
Beverage and tobacco products	312	3 i	3	*	*	2 i	2	* i	*
Textile, apparel, and leather products	313-316	5	4	1	*	2	2	* i	* i
Wood products	321	2	1	1	*	1	1	*	*
Paper	322	7 i	6	1 i	* i	6 i	6	* i	* i
Printing and related support activities	323	2	1	1	* i	1	1	* i	* i
Petroleum and coal products	324	5 i	4 i	* i	* i	2 i	2 i	*	* i
Chemicals	325	145	140	4	2	97	94	2	1
Basic chemicals	3251	17 i	16	1	* i	10	10	1 i	*
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	5	5	* i	*	3 i	3	* i	* i
Pesticide, fertilizer, and other agricultural chemical	3253	5	5	*	*	4	4	* i	*
Pharmaceuticals and medicines	3254	95	93	1	1	65	63	1	*
Soap, cleaning compound, and toilet preparation	3256	14	13	*	*	10	10	*	* i
Paint, coating, adhesive, and other chemicals	3255, 3259	9	8	1	*	6	5	*	* i
Plastics and rubber products	326	16	10	6 i	* i	9	6	3 i	* i
Nonmetallic mineral products	327	6 i	4	2 i	*	3	2	1 i	* i
Primary metals	331	4	3	1 i	* i	2	2	* i	* i
Fabricated metal products	332	19	10	8 i	* i	10	7	4 i	* i
Machinery	333	74	63	10	1	56	50	6 i	*
Agricultural implement	33311	7	7	*	*	6	6	* i	*
Semiconductor machinery	333295	7 i	6	* i	* i	5 i	5	* i	*
Engine, turbine, and power transmission equipment	3336	22	21	1	*	18	17	1	*
Other machinery	other 333	38	29	9	1	27	22	5 i	* i
Computer and electronic products	334	236	213	22	1	190	174	15	1 i
Communications equipment	3342	49	47	2	*	40	38	1 i	* i
Semiconductor and other electronic components	3344	81 i	75 i	6 i	* i	66 i	62 i	4 i	* i
Navigational, measuring, electromedical, and control instruments	3345	63	50	12	1	47	38	9	*
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	22 i	21	1	*	16	15	1	*
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	23	13	9	*	18	11	7	*
Other measuring and controlling device	other 3345	18	16	2	*	14	12	1 i	* i
Other computer and electronic products	other 334	43	42	2 i	*	37 i	36 i	1 i	* i
Electrical equipment, appliances, and components	335	24	21	3 i	* i	19	17	2 i	* i
Transportation equipment	336	98	76	21 i	1	76	63	13 i	1 i
Motor vehicles, bodies, trailers, and parts	3361, 3362, 3363	47	38	8	1	36	32	4 i	1 i
Aerospace products and parts	3364	43	31	12 i	*	36	27	9 i	* i

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Aircraft, aircraft engine, and aircraft parts	336411-13	39	28	12 i	*	32	23	9 i	* i
Guided missile, space vehicle, and related parts	336414-15, 336419	4	4 i	*	*	4	4	*	* i
Military armored vehicle, tank, and tank component	336992	* i	* i	*	0	* i	* i	*	0
Other transportation equipment	other 336	7	6	1 i	*	5	4	* i	*
Furniture and related products	337	3	2	1	* i	2	1	*	*
Miscellaneous manufacturing	339	49	41	7 i	1	29	26	3 i	* i
Medical equipment and supplies	3391	30	28	2 i	*	20	19	1 i	* i
Other miscellaneous manufacturing	3399	18	14	5 i	*	9	7	2 i	* i
Nonmanufacturing industries	21-23, 42-81	509	437	63 i	9 i	333	298	31 i	4 i
Mining, extraction, and support activities	21	10	9	1 i	* i	5 i	5	* i	* i
Utilities	22	1	1	*	* i	1	1	*	* i
Wholesale trade	42	14 i	7 i	7 i	1	6 i	4 i	2 i	* i
Electronic shopping and electronic auctions	454111-12	4 i	3 i	* i	* i	1	1	* i	*
Transportation and warehousing	48-49	1	1	* i	0	1	1 i	* i	0
Information	51	216	204	9 i	3 i	167	160	6 i	2 i
Publishing	511	140	133	5 i	2	110	105	4 i	2
Newspaper, periodical, book, and directory publishers	5111	3 i	3 i	* i	*	2 i	2 i	*	*
Software publishers	5112	137	131	5 i	2	108	103	3 i	1
Telecommunications	517	22 i	21 i	1 i	* i	18 i	17 i	* i	* i
Data processing, hosting, and related services	518	30	28	2 i	* i	20	19	1 i	* i
Other information	other 51	24	22	1	*	20	19	1	* i
Finance and insurance	52	20	15	4	1	8	7	1 i	*
Real estate and rental and leasing	53	1	1	*	*	1	1	*	*
Lessors of nonfinancial intangible assets (except copyrighted works)	533	1	1	*	*	1	1	*	*
Other real estate and rental and leasing	other 53	*	*	*	0	*	* i	0	0
Professional, scientific, and technical services	54	215	175	35 i	4 i	133	112	19 i	2 i
Architectural, engineering, and related services	5413	41	29	12 i	* i	31	23	8 i	* i
Computer systems design and related services	5415	77	64	13 i	1 i	51	44	7 i	* i
Scientific research and development services	5417	65	59	4	3 i	36	33	2	1 i
Biotechnology research and development	541711	18	16	1	* i	10	9	1	* i
Physical, engineering, and life sciences (except biotechnology) research and development	541712	44	40	2 i	1	25 i	24	1 i	1 i
Social sciences and humanities research and development	541720	4 i	3 i	* i	1 i	* i	*	* i	* i
Other professional, scientific, and technical services	other 54	30	23	6 i	1 i	15	12	3 i	* i
Health care services	621-23	6	6	* i	*	1	1	* i	* i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	21	14	6 i	1 i	9	6	3 i	* i

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All companies (number of domestic employees)	-	1,231	1,061	154 i	17	853	764	81 i	7 i
Small companies ^c									
5-499	-	378	291	79 i	8	231	191	37 i	3 i
5-99	-	217	159	51 i	6	130	102	26 i	2 i
5-49	-	151	110	36 i	5	90	72	17 i	2 i
5-9	-	31	24	6 i	1	17	14	3 i	* i
10-24	-	59	41	16 i	2	36	29	7 i	1 i
25-49	-	61	45	14 i	2	37	29	7 i	1 i
50-99	-	66	49	15 i	1	40	31	9 i	1 i
100-249	-	84	67	17 i	1 i	53	46	7 i	* i
250-499	-	77	66	11 i	1 i	48	43	5	* i
Medium and large companies									
500-999	-	51	44	6	*	32	28	3 i	* i
1,000-4,999	-	205	180	22 i	3 i	136	123	13 i	1 i
5,000-9,999	-	106	98	7 i	1	71	68	3 i	* i
10,000-24,999	-	178	160	17 i	1	121 i	110	11 i	1 i
25,000 or more	-	313	286	23	4	262	245	15 i	3

* = amount < 500; i = value > 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, as well as technicians, technologists, and support staff.

^b Includes scientists and engineers and their managers.

^c Upper bound based on U.S. Small Business Administration's definition of a small business; 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 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 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, 2011.