

Table 52. Domestic full-time equivalent R&D employees and researchers, by work status, industry, and company size: 2024

(Thousands)

Industry and company size	NAICS code	FTE R&D employees ^a						FTE R&D scientists and engineers ^b					
		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	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	1,937	1,668	242	28	1,288	1,140	134	14	i			
Manufacturing industries	31–33	956	838	107	11	633	576	52	5	i			
Food	311	25	22	3	*	13	12	1	i	*			i
Beverage and tobacco products	312	6	3	3	* i	3	3	*		*			i
Textile, apparel, and leather products	313–16	4	3	1	*	2	2	*	i	*			
Wood products	321	3	3	1	*	2	2	*		*			
Paper	322	4	3	1	*	3	3	*		*			
Printing and related support activities	323	2	1	1	*	1	1	*		*			i
Petroleum and coal products	324	3	3	*	*	1	1	*		*			
Chemicals	325	223	216	6	1	157	153	4	i	1			
Basic chemicals	3251	20	17	3	*	16	i 14	i 2	i	*			
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	6	5	*	*	4	4	*		*			
Pesticide, fertilizer, and other agricultural chemicals	3253	4	3	*	*	2	2	*		*			
Pharmaceuticals and medicines	3254	175	172	2	1	120	119	1		*			
Soap, cleaning compound, and toilet preparations	3256	10	10	*	*	8	8	*	i	*			
Paint, coating, adhesive, and other chemicals	3255, 3259	9	9	1	* i	6	6	*		*			
Plastics and rubber products	326	15	10	4	1	7	5	1		*			
Nonmetallic mineral products	327	8	7	1	*	4	i 4	i 1		*			i
Primary metals	331	4	2	2	*	2	1	1		*			
Fabricated metal products	332	21	11	9	1	10	7	3		*			
Machinery	333	91	69	21	1	58	43	14		*			
Agricultural implement	33311	10	9	*	*	7	7	*		*			
Semiconductor machinery	333242	17	i 16	i *	i *	11	i 11	i *	i	*			i
Engine, turbine, and power transmission equipment	3336	17	9	8	*	11	4	7		*			
Other machinery	other 333	48	34	13	1	28	21	7		*			
Computer and electronic products	334	257	230	23	3	167	156	8	i	2			i
Communications equipment	3342	35	33	2	*	D	27	D		D			
Semiconductor and other electronic components	3344	102	97	3	2	D	73	i 2	i	D			
Navigational, measuring, electromedical, and control instruments	3345	53	43	9	1	D	32	D		1			
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	8	8	*	*	6	6	*		*			i
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	23	16	7	*	D	13	D		*			
Other measuring and controlling devices	other 3345	21	19	2	*	14	13	1		*			
Other computer and electronic products	other 334	66	57	9	*	D	25	i D		D			
Electrical equipment, appliances, and components	335	23	20	2	*	17	15	i 1		*			
Transportation equipment	336	184	159	23	2	137	i 122	i 14	i	1			i

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Motor vehicles, bodies, trailers, and parts	3361–63	106	i	100	i	6		1		82	i	79	i	3		*	i
Aerospace products and parts	3364	64		48		16		1	i	49	i	38	i	11	i	1	i
Aircraft, aircraft engine, and aircraft parts	336411–13	47		32		14	i	1		33	i	24		9	i	*	
Guided missile, space vehicle, and related parts	336414–15, 336419	18		16		2		*	i	16	i	14	i	1		*	i
Military armored vehicle, tank, and tank components	336992	*		*		*		0		*		*		*		0	
Other transportation	other 336	13		11		1	i	*	i	6		5		1	i	*	i
Furniture and related products	337	3		2		1		*		2	i	1	i	*		*	
Miscellaneous	339	79		73		4		1		48		46		1	i	1	
Medical equipment and supplies	3391	67		63		3		1		42		41		1	i	1	
Other miscellaneous manufacturing	3399	12		11		1		*		6		6		1		*	i
Nonmanufacturing industries	21–23, 42–81	981		830		135		17	i	655		564		82	i	8	i
Mining, quarrying, oil and gas extraction, and support activities	21	4		4		*		*		2		2		*		*	r
Utilities	22	3		2		1		*		2		2		*	i	*	i
Wholesale trade	42	18	i	11	i	7	i	*	i	8	i	5	i	2	i	*	i
Electronic shopping and electronic auctions	454111–12	27	i	24	i	2	i	2	i	23	i	20	i	1	i	1	i
Transportation and warehousing	48–49	24		12		12		1	r	11	i	7		5	i	*	i
Information	51	486		451		31		5		360		337		20		2	i
Publishing	511	147		139		8		1	i	115		110		5		*	i
Newspaper, periodical, book, and directory publishers	5111	4	i	3	i	*	i	1	i	2	i	1	i	*	i	*	i
Software publishers	5112	143		135		7		*		113		108		4		*	
Telecommunications	517	14		11	i	3		*		7	i	5	i	2	i	*	
Data processing, hosting, and related services	518	167		150		14		2		120	i	110	i	9		1	i
Other information	other 51	158		151		5		1		118		113		5		1	
Finance and insurance	52	71		57		13		*		36	i	30	i	6		*	i
Real estate and rental and leasing	53	5		5		*	i	*	i	4	i	4	i	*	i	*	i
Lessors of nonfinancial intangible assets (except copyrighted works)	533	*		*		0		0		*		*		0		0	
Other real estate and rental and leasing	other 53	5		5		*	i	*	i	4	i	4	i	*	i	*	i
Professional, scientific, and technical services	54	302		241		54		8	i	185	i	143	i	38	i	4	i
Architectural, engineering, and related services	5413	43		17		24		2		32		13		19		1	
Computer systems design and related services	5415	99		86		12		1		61		54		7		*	
Scientific research and development services	5417	116	i	106	i	5	i	4	i	64	i	59	i	3	i	1	i
Research and development in nanotechnology	541713	2		1		*		*		1		1		*		*	
Research and development in biotechnology (except nanobiotechnology)	541714	29	i	28	i	*		1	i	7		7		*		*	
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	81	i	75	i	4	i	2	i	54	i	50	i	3	i	1	i
Research and development in the social sciences and humanities	541720	3	i	2	i	*	i	1	i	2		1		*	i	*	i

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Other professional, scientific, and technical services	other 54	44	i	31	i	12	i	1		27	i	17	i	10	i	1	i
Health care services	621–23	7		6		1		*		3		3		1		*	
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	33		18		14		1		20		11		8		*	
All companies (number of domestic employees)	–	1,937		1,668		242		28		1,288		1,140		134		14	i
Small companies																	
10–19 ^c	–	23		18		5		1		16		13		3		*	
20–49	–	64		47		15		1		42		33		8		*	
Medium companies																	
50–99	–	74		49		23		2		43		31		11		1	
100–249	–	107		81		24		3		68		55		11		1	
Large companies																	
250–499	–	97		79		16		2		59		50		8		1	
500–999	–	109		91		17		1		72		63		9		*	
1,000–4,999	–	343		292		45		6		227		198		26		3	i
5,000–9,999	–	180		161		16		3	i	115		106		8	i	1	
10,000–24,999	–	303		282		20	i	2	i	201		187		12	i	1	i
25,000 or more	–	636		568		62		6	i	446	i	403	i	38	i	5	i

* = amount < 500 employees; D = data withheld to avoid disclosing operations of individual companies; i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse; r = relative standard error is more than 50%.

FTE = full-time equivalent; NAICS = 2017 North American Industry Classification System.

^a FTE R&D employees includes scientists and engineers; their managers; and technicians, technologists, and support staff.

^b FTE R&D scientists and engineers includes scientists and engineers and their managers.

^c The Business Enterprise Research and Development Survey does not include companies with fewer than 10 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&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 \$50,000 or more of R&D.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2024.