

Table 50. Domestic total employment, R&D employment, and level of education of researchers, by work activity, industry, and company size: 2024

(Thousands)

Industry and company size	NAICS code	Total employment		Total R&D employment		Researchers ^a		R&D technicians and equivalent staff	Other R&D supporting staff
						Total	With PhD		
All industries	21–23, 31–33, 42–81	23,145		2,130		1,462	153	470	198
Manufacturing industries	31–33	10,183		1,032		718	96	198	116
Food	311	1,169		29		14	3	8	6
Beverage and tobacco products	312	481		7		3	*	1	3
Textile, apparel, and leather products	313–16	187		5		2	*	2	1
Wood products	321	155		5		2	*	2	1
Paper	322	203		6		3	*	2	1
Printing and related support activities	323	95		3		1	*	1	*
Petroleum and coal products	324	128		4		1	*	2	1
Chemicals	325	1,397		227		162	46	36	30
Basic chemicals	3251	203		20		16	2	4	1
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	81		6		4	1	2	1
Pesticide, fertilizer, and other agricultural chemicals	3253	69		4		2	2 i	1	*
Pharmaceuticals and medicines	3254	691		176		124	38	26	26
Soap, cleaning compound, and toilet preparations	3256	198		10		8	1	1	1
Paint, coating, adhesive, and other chemicals	3255, 3259	156		10		6	1 i	3	1
Plastics and rubber products	326	390		18		9	1	7	2
Nonmetallic mineral products	327	132		9		5	*	2	3 r
Primary metals	331	163		8		3	* i	3	2
Fabricated metal products	332	430		28		12	1	12	4
Machinery	333	996		101		64	6 i	28	9
Agricultural implement	33311	104		10		8	*	2	1
Semiconductor machinery	333242	48		17 i		12 i	4 i	5	1
Engine, turbine, and power transmission equipment	3336	156		17		12	1	4	2
Other machinery	other 333	688		56		33	1	18	6
Computer and electronic products	334	1,059		272		218	24 i	28	26
Communications equipment	3342	194		36		29	1 i	4	3
Semiconductor and other electronic components	3344	291		104		89	11 i	10	5
Navigational, measuring, electromedical, and control instruments	3345	320		60		40	5	10	10
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	47		8		6	1	1	1
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	134		29		18	1	4	8
Other measuring and controlling devices	other 3345	139		22		15	2 i	5	2
Other computer and electronic products	other 334	253		72		61	7 i	4 i	7
Electrical equipment, appliances, and components	335	297		25		18	2 i	5	2
Transportation equipment	336	1,929		197		146	6 i	33	18
Motor vehicles, bodies, trailers, and parts	3361–63	946		111		85 i	3 i	16	9 i
Aerospace products and parts	3364	790		73		54	3	12	6
Aircraft, aircraft engine, and aircraft parts	336411–13	612		53		38	3	10	5
Guided missile, space vehicle, and related parts	336414–15, 336419	178		20		17	* i	2	1

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Military armored vehicle, tank, and tank components	336992	3		*		*	*	*	*	
Other transportation	other 336	191		13		7	*	4	3	
Furniture and related products	337	130		4		2	*	2	*	i
Miscellaneous	339	841		84		52	7	24	8	
Medical equipment and supplies	3391	601		69		44	6	19	7	
Other miscellaneous manufacturing	3399	240		14		8	1	5	1	
Nonmanufacturing industries	21–23, 42–81	12,962		1,098		744	57	273	82	
Mining, quarrying, oil and gas extraction, and support activities	21	118		5		3	1	1	1	
Utilities	22	344		7		4	*	2	1	
Wholesale trade	42	427	i	22	i	9	1	8	5	i
Electronic shopping and electronic auctions	454111–12	1,421		28	i	23	1	4	*	i
Transportation and warehousing	48–49	1,117		35		16	1	15	4	
Information	51	2,295		502		376	30	96	29	
Publishing	511	508		153		121	9	23	10	
Newspaper, periodical, book, and directory publishers	5111	20	i	5	i	2	*	2	*	i
Software publishers	5112	487		148		119	9	20	9	
Telecommunications	517	458		15		7	1	5	3	
Data processing, hosting, and related services	518	735		174		128	3	33	13	
Other information	other 51	595		159		120	17	36	3	
Finance and insurance	52	1,673		90		52	3	33	5	
Real estate and rental and leasing	53	162		6		4	*	1	*	
Lessors of nonfinancial intangible assets (except copyrighted works)	533	2		*		*	*	*	*	i
Other real estate and rental and leasing	other 53	160		6		4	*	1	*	
Professional, scientific, and technical services	54	1,782		354		229	19	94	31	
Architectural, engineering, and related services	5413	457		70		49	2	17	4	
Computer systems design and related services	5415	506		111		73	5	27	11	
Scientific research and development services	5417	352		124		76	10	35	13	
Research and development in nanotechnology	541713	6		2		1	*	1	*	
Research and development in biotechnology (except nanobiotechnology)	541714	109		30		17	2	12	1	
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	226		85	i	57	7	22	6	
Research and development in the social sciences and humanities	541720	11		8		2	*	1	5	
Other professional, scientific, and technical services	other 54	467		49		31	2	15	4	
Health care services	621–23	445		8		4	1	3	1	
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	3,178		43		24	*	14	5	
All companies (number of domestic employees)	–	23,145		2,130		1,462	153	470	198	
Small companies										
10–19 ^b	–	69		26		18	3	6	2	
20–49	–	249		74		47	7	21	7	

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						Total	With PhD		
Medium companies									
50–99	–	333		87		49	6	29	9
100–249	–	690		130		79	9	40	12
Large companies									
250–499	–	713		112		68	7	30	14
500–999	–	1,108		122		82	8	27	13
1,000–4,999	–	3,121		381		253	24 i	91	37
5,000–9,999	–	1,945		203		126	14	54	23
10,000–24,999	–	3,560		323		228	28	67	28
25,000 or more	–	11,358		671		512	46 i	105	54

* = amount < 500 employees; 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%.

NAICS = 2017 North American Industry Classification System.

^a Researchers includes R&D scientists and engineers and their managers.

^b 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.