

Table 51. Foreign 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	11,634		1,168		828	48	i	252		88	
Manufacturing industries	31–33	7,586		566		442	31	i	78		47	
Food	311	428		13		7	i	1	i	4	2	i
Beverage and tobacco products	312	557		4		3	*		1		*	
Textile, apparel, and leather products	313–16	140		1		*	*		1		*	
Wood products	321	18		*		*	*	i	*		*	
Paper	322	119		1		1	*		*		*	
Printing and related support activities	323	18		*		*	i	*	i	*	i	*
Petroleum and coal products	324	52		2		*	*		1		*	
Chemicals	325	1,018		77		51	11		11		16	
Basic chemicals	3251	117		7		3	1	i	4	i	*	
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	78		4		3	1		1		*	
Pesticide, fertilizer, and other agricultural chemicals	3253	43		1		*	*	i	*		*	
Pharmaceuticals and medicines	3254	467		54		36	8		4		15	
Soap, cleaning compound, and toilet preparations	3256	218		7		6	1		*		*	
Paint, coating, adhesive, and other chemicals	3255, 3259	95		4		3	*	i	1		*	
Plastics and rubber products	326	211		4		2	*	i	2		*	
Nonmetallic mineral products	327	84		1	i	1	i	*	i	*	*	
Primary metals	331	76		2		2	*	i	*	i	*	i
Fabricated metal products	332	149		8		4	1		2		1	
Machinery	333	947		64		51	3	i	11		3	
Agricultural implement	33311	79		8		7	*		1		*	
Semiconductor machinery	333242	78		14	i	11	i	1	i	3	*	
Engine, turbine, and power transmission equipment	3336	210		13		10	*		1	i	1	
Other machinery	other 333	581		29		22	i	1	i	5	i	2
Computer and electronic products	334	1,408		254		221	10	i	20		13	
Communications equipment	3342	130		37		31	1	i	3		2	
Semiconductor and other electronic components	3344	601		139		124	6	i	10	i	5	
Navigational, measuring, electromedical, and control instruments	3345	267		28		21	1	i	5		3	
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	29		3		2	*		1		*	
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	26		6		4	*	i	*		2	
Other measuring and controlling devices	other 3345	212		19		15	1	i	3	i	1	
Other computer and electronic products	other 334	410		50		44	1	i	2	i	3	
Electrical equipment, appliances, and components	335	291		14		9	1	i	2		3	i
Transportation equipment	336	1,306		79		63	1		11	i	5	i
Motor vehicles, bodies, trailers, and parts	3361–63	944		58		46	1	i	9	i	3	i
Aerospace products and parts	3364	298		19		16	1		2		1	
Aircraft, aircraft engine, and aircraft parts	336411–13	D		D		9	1		2		D	
Guided missile, space vehicle, and related parts	336414–15, 336419	D		D		7	i	*	*		D	
Military armored vehicle, tank, and tank components	336992	0		0		0	0		0		0	
Other transportation	other 336	64		3	i	1	*	i	1	i	1	i

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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			
250–499	–	302		42		34	1	6	2	
500–999	–	382		44		30	2	11	3	
1,000–4,999	–	2,173		231		144	8 i	66	21	i
5,000–9,999	–	1,373		105		59	3 i	39	7	
10,000–24,999	–	2,642		276		191	12 i	66	20	
25,000 or more	–	4,470		406		326	18 i	48 i	32	

* = 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%.

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.