

Table 8-6

Business enterprise research and development personnel — By major fields of science or technology and industry, 2013^p

	Natural and formal sciences	Engineering and technology	Medical and health sciences	Agricultural sciences	Total
	number				
Total all industries	14,480^A	103,555^A	11,000^A	3,297^A	132,331^A
Agriculture, forestry, fishing and hunting	x	153^A	x	730^A	1,024^A
Agriculture	114 ^A	110 ^A	3 ^E	648 ^A	874 ^A
Forestry, logging and support activities for forestry	x	33 ^A	x	x	80 ^A
Fishing, hunting, trapping and animal aquaculture	6 ^A	10 ^A	x	x	70 ^A
Mining, quarrying, and oil and gas extraction	x	1,620^A	0^A	x	1,840^A
Oil and gas extraction, contract drilling and related services	x	1,112 ^A	0 ^A	x	1,290 ^A
Mining and quarrying, contract drilling and related support activities	x	508 ^A	0 ^A	x	550 ^A
Utilities	122^A	1,194^A	x	x	1,328^D
Electric power generation, transmission and distribution	x	x	0 ^A	0 ^A	1,016 ^E
Other utilities	x	x	x	x	311 ^A
Construction	x	988^A	0^A	x	1,072^A
Manufacturing	2,994^A	46,583^A	3,145^A	857^A	53,579^A
Food manufacturing	116 ^A	1,137 ^A	17 ^A	462 ^A	1,733 ^A
Beverage and tobacco product manufacturing	x	x	x	21 ^A	105 ^A
Textile mills and textile product mills	x	350 ^A	x	x	374 ^A
Wood product manufacturing	x	425 ^A	x	18 ^A	467 ^A
Paper manufacturing	x	x	x	5 ^A	649 ^A
Printing and related support activities	92 ^A	658 ^A	0 ^A	0 ^A	749 ^A
Petroleum and coal products manufacturing	x	150 ^A	0 ^A	x	207 ^A
Pharmaceutical and medicine manufacturing	488 ^A	x	2,532 ^A	x	3,122 ^A
Other chemicals manufacturing	540 ^A	891 ^A	93 ^A	233 ^A	1,757 ^A
Plastic product manufacturing	x	1,380 ^A	x	0 ^A	1,482 ^A
Rubber product manufacturing	22 ^A	198 ^A	0 ^A	0 ^A	220 ^B
Non-metallic mineral product manufacturing	27 ^C	x	0 ^A	x	503 ^A
Primary metal (ferrous) manufacturing	x	x	x	0 ^A	243 ^A
Primary metal (non-ferrous) manufacturing	x	x	0 ^A	0 ^A	524 ^A
Fabricated metal product manufacturing	62 ^A	2,672 ^A	4 ^B	2 ^A	2,740 ^A
Machinery manufacturing	184 ^A	6,098 ^A	x	x	6,362 ^A
Computer and peripheral equipment manufacturing	x	601 ^A	x	0 ^A	680 ^A
Communications equipment manufacturing	105 ^A	8,523 ^A	0 ^A	0 ^A	8,628 ^A
Semiconductor and other electronic component manufacturing	144 ^A	3,664 ^A	x	x	3,815 ^A
Navigational, measuring, medical and control instrument manufacturing	536 ^A	3,204 ^A	x	x	3,894 ^A
Other computer and electronic products manufacturing	x	334 ^A	x	0 ^A	371 ^A
Electrical equipment, appliance and component manufacturing	166 ^A	1,666 ^A	5 ^A	6 ^A	1,843 ^D
Motor vehicle and parts manufacturing	x	x	x	0 ^A	1,875 ^A
Aerospace products and parts manufacturing	x	7,005 ^A	x	0 ^A	7,015 ^A
All other transportation equipment manufacturing	x	x	0 ^A	0 ^A	1,510 ^A
Furniture and related product manufacturing	x	471 ^A	0 ^A	x	481 ^A
Other manufacturing industries	121 ^B	1,788 ^A	311 ^A	9 ^D	2,229 ^A
Services	10,945^A	53,018^A	7,841^A	1,686^A	73,489^A
Wholesale trade	828 ^A	7,365 ^A	1,546 ^A	393 ^A	10,132 ^A
Retail trade	156 ^A	815 ^A	36 ^A	28 ^A	1,034 ^A
Transportation and warehousing	90 ^A	522 ^A	0 ^A	7 ^B	619 ^A
Information and cultural industries	1,846 ^A	11,115 ^A	x	x	13,078 ^A
Finance, insurance and real estate	270 ^A	1,496 ^A	x	x	1,783 ^B
Architectural, engineering and related services	1,026 ^A	3,997 ^A	28 ^E	39 ^D	5,090 ^A
Computer systems design and related services	3,948 ^A	13,220 ^A	195 ^A	15 ^B	17,379 ^A
Management, scientific and technical consulting services	381 ^A	789 ^A	57 ^A	23 ^B	1,250 ^A
Scientific research and development services	1,701 ^A	8,943 ^A	4,559 ^A	825 ^A	16,028 ^A
Health care and social assistance	57 ^A	131 ^A	1,044 ^A	5 ^A	1,238 ^A
All other services	643 ^A	4,623 ^A	259 ^A	332 ^A	5,858 ^A

Note(s): Components may not add to totals due to rounding. Personnel counts are reported as full-time equivalent.