

Table 5-21

Business enterprise research and development intramural expenditures — 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 all industries
millions of dollars					
Total all industries	1,368^A	12,897^A	1,364^A	402^A	16,032^A
Agriculture, forestry, fishing and hunting	x	x	x	63^A	81^A
Agriculture	6 ^A	x	x	57 ^A	70 ^A
Forestry, logging and support activities for forestry	x	x	x	x	5 ^A
Fishing, hunting, trapping and animal aquaculture	0 ^A	1 ^A	x	x	5 ^A
Mining, quarrying, and oil and gas extraction	x	1,434^A	0^A	x	1,585^C
Oil and gas extraction, contract drilling and related services	x	1,255 ^A	0 ^A	x	1,393 ^C
Mining and quarrying, contract drilling and related support activities	x	178 ^A	0 ^A	x	191 ^D
Utilities	x	x	x	x	232^A
Electric power generation, transmission and distribution	x	x	0 ^A	0 ^A	206 ^A
Other utilities	x	x	x	x	26 ^C
Construction	4^B	64^A	0^A	0^D	68^A
Manufacturing	327^A	5,969^A	359^A	98^A	6,753^A
Food manufacturing	x	77 ^A	x	44 ^A	129 ^A
Beverage and tobacco product manufacturing	x	x	x	x	x
Textile mills and textile product mills	x	x	x	x	26 ^A
Wood product manufacturing	x	73 ^A	x	3 ^A	77 ^A
Paper manufacturing	x	132 ^A	x	x	135 ^A
Printing and related support activities	3 ^A	39 ^A	0 ^A	0 ^A	42 ^A
Petroleum and coal products manufacturing	x	x	0 ^A	x	x
Pharmaceutical and medicine manufacturing	90 ^A	x	305 ^A	x	403 ^A
Other chemicals manufacturing	41 ^A	89 ^A	7 ^A	41 ^A	177 ^B
Plastic product manufacturing	x	107 ^A	x	0 ^A	115 ^A
Rubber product manufacturing	x	x	0 ^A	0 ^A	19 ^A
Non-metallic mineral product manufacturing	x	x	0 ^A	x	60 ^A
Primary metal (ferrous) manufacturing	x	x	x	0 ^A	30 ^A
Primary metal (non-ferrous) manufacturing	x	x	0 ^A	0 ^A	208 ^A
Fabricated metal product manufacturing	4 ^A	183 ^A	x	x	188 ^A
Machinery manufacturing	x	534 ^A	x	x	556 ^A
Computer and peripheral equipment manufacturing	x	x	x	0 ^A	60 ^B
Communications equipment manufacturing	10 ^A	1,305 ^A	0 ^A	0 ^A	1,314 ^A
Semiconductor and other electronic component manufacturing	11 ^A	443 ^A	x	x	455 ^A
Navigational, measuring, medical and control instrument manufacturing	37 ^A	304 ^A	x	x	360 ^A
Other computer and electronic products manufacturing	3 ^A	x	x	0 ^A	29 ^A
Electrical equipment, appliance and component manufacturing	x	155 ^A	x	0 ^A	162 ^A
Motor vehicle and parts manufacturing	x	x	x	0 ^A	F
Aerospace products and parts manufacturing	x	1,572 ^A	x	0 ^A	1,573 ^A
All other transportation equipment manufacturing	x	x	0 ^A	0 ^A	146 ^A
Furniture and related product manufacturing	1 ^A	x	0 ^A	x	22 ^A
Other manufacturing industries	7 ^D	129 ^A	x	x	160 ^A
Services	846^A	5,223^A	1,005^A	240^A	7,313^A
Wholesale trade	66 ^A	856 ^A	362 ^A	52 ^A	1,336 ^A
Retail trade	9 ^A	48 ^A	x	x	60 ^A
Transportation and warehousing	10 ^A	71 ^A	0 ^A	1 ^C	82 ^B
Information and cultural industries	x	1,122 ^A	x	x	1,249 ^A
Finance, insurance and real estate	50 ^A	214 ^A	x	x	265 ^A
Architectural, engineering and related services	69 ^A	359 ^A	x	x	441 ^A
Computer systems design and related services	306 ^A	1,048 ^A	23 ^A	1 ^B	1,377 ^A
Management, scientific and technical consulting services	25 ^A	50 ^A	4 ^A	1 ^B	81 ^A
Scientific research and development services	153 ^A	1,051 ^A	498 ^A	134 ^A	1,836 ^A
Health care and social assistance	x	8 ^A	76 ^A	x	87 ^A
All other services	36 ^A	397 ^A	20 ^B	45 ^A	498 ^A

Note(s): Components may not add to totals due to rounding.