

Table 5-1
Business enterprise research and development intramural expenditures — By industry

	2011 ^r	2012 ^r	2013 ^p	2014 ^p	2015 ^p
	— millions of dollars				
Total all industries	16,894^A	16,700^A	16,032^A	15,877^A	15,462^A
Agriculture, forestry, fishing and hunting	145^A	97^A	81^A	85^B	83^B
Agriculture	120 ^A	86 ^A	70 ^A	75 ^B	73 ^B
Forestry, logging and support activities for forestry	16 ^A	5 ^A	5 ^A	5 ^D	5 ^E
Fishing, hunting, trapping and animal aquaculture	10 ^A	6 ^A	5 ^A	5 ^B	5 ^D
Mining, quarrying, and oil and gas extraction	1,387^A	1,608^B	1,585^C	1,442^B	1,362^C
Oil and gas extraction, contract drilling and related services	1,249 ^A	1,456 ^B	1,393 ^C	1,277 ^B	1,209 ^B
Mining and quarrying, contract drilling and related support activities	138 ^A	152 ^A	191 ^D	F	F
Utilities	199^A	213^A	232^A	212^A	218^A
Electric power generation, transmission and distribution	165 ^A	182 ^A	206 ^A	191 ^A	195 ^A
Other utilities	34 ^A	31 ^A	26 ^C	22 ^D	F
Construction	158^A	110^A	68^A	76^C	79^B
Manufacturing	7,372^A	7,165^A	6,753^A	6,785^A	6,430^A
Food manufacturing	156 ^A	142 ^A	129 ^A	142 ^A	139 ^A
Beverage and tobacco product manufacturing	13 ^A	x	x	x	x
Textile mills and textile product mills	42 ^A	31 ^A	26 ^A	29 ^B	29 ^B
Wood product manufacturing	88 ^A	88 ^A	77 ^A	75 ^C	101 ^A
Paper manufacturing	151 ^A	131 ^A	135 ^A	F	132 ^C
Printing and related support activities	46 ^B	43 ^A	42 ^A	47 ^D	47 ^D
Petroleum and coal products manufacturing	92 ^A	x	x	x	x
Pharmaceutical and medicine manufacturing	518 ^B	453 ^D	403 ^A	431 ^A	441 ^A
Other chemicals manufacturing	320 ^A	224 ^A	177 ^B	180 ^C	186 ^D
Plastic product manufacturing	154 ^A	146 ^A	115 ^A	123 ^B	125 ^A
Rubber product manufacturing	20 ^C	26 ^A	19 ^A	18 ^B	17 ^C
Non-metallic mineral product manufacturing	78 ^A	63 ^A	60 ^A	58 ^B	60 ^B
Primary metal (ferrous) manufacturing	47 ^A	44 ^A	30 ^A	34 ^E	35 ^B
Primary metal (non-ferrous) manufacturing	168 ^A	164 ^A	208 ^A	99 ^B	105 ^A
Fabricated metal product manufacturing	221 ^A	197 ^A	188 ^A	205 ^B	199 ^B
Machinery manufacturing	652 ^C	597 ^A	556 ^A	566 ^A	558 ^A
Computer and peripheral equipment manufacturing	53 ^A	58 ^A	60 ^B	62 ^B	63 ^A
Communications equipment manufacturing	1,479 ^A	1,489 ^D	1,314 ^A	1,323 ^A	939 ^A
Semiconductor and other electronic component manufacturing	521 ^A	485 ^A	455 ^A	443 ^A	429 ^A
Navigational, measuring, medical and control instrument manufacturing	376 ^A	440 ^A	360 ^A	386 ^A	377 ^A
Other computer and electronic products manufacturing	26 ^A	33 ^A	29 ^A	28 ^D	31 ^E
Electrical equipment, appliance and component manufacturing	147 ^A	146 ^A	162 ^A	157 ^B	166 ^A
Motor vehicle and parts manufacturing	256 ^A	247 ^A	F	244 ^A	253 ^B
Aerospace products and parts manufacturing	1,315 ^D	1,454 ^A	1,573 ^A	1,527 ^A	1,510 ^A
All other transportation equipment manufacturing	188 ^A	144 ^A	146 ^A	146 ^A	144 ^D
Furniture and related product manufacturing	38 ^A	30 ^A	22 ^A	23 ^B	22 ^C
Other manufacturing industries	209 ^A	212 ^A	160 ^A	179 ^B	172 ^C
Services	7,632^A	7,507^A	7,313^A	7,277^A	7,290^A
Wholesale trade	1,398 ^A	1,494 ^A	1,336 ^A	1,360 ^A	1,347 ^B
Retail trade	83 ^A	66 ^A	60 ^A	60 ^B	60 ^C
Transportation and warehousing	60 ^A	63 ^A	82 ^B	74 ^A	74 ^B
Information and cultural industries	1,137 ^B	1,240 ^A	1,249 ^A	1,233 ^A	1,264 ^A
Finance, insurance and real estate	250 ^A	253 ^A	265 ^A	223 ^A	225 ^C
Architectural, engineering and related services	480 ^A	502 ^A	441 ^A	393 ^B	378 ^B
Computer systems design and related services	1,556 ^A	1,344 ^A	1,377 ^A	1,405 ^A	1,396 ^A
Management, scientific and technical consulting services	95 ^A	84 ^A	81 ^A	F	87 ^B
Scientific research and development services	2,035 ^A	1,947 ^A	1,836 ^A	1,823 ^A	1,824 ^A
Health care and social assistance	98 ^A	90 ^A	87 ^A	96 ^B	95 ^C
All other services	439 ^A	424 ^A	498 ^A	518 ^A	541 ^B

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