

Appendix table 4-42

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Share of business expenditures for R&D, by industry and selected country/economy: 2003 or 2004

(Percent)

Industry	ISIC	EU (2003)	Australia (2003)	Belgium (2004)	Canada (2004)	Czech Republic (2004)	Denmark (2004)	Finland (2004)
All business enterprise.....	na	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Manufacturing.....	15-37	82.8	45.6	78.4	58.3	61.3	65.5	83.1
Food products, beverages, and tobacco.....	15-16	1.9	3.6	2.9	0.8	0.7	5.2	1.4
Textiles, textile products, leather, and footwear.....	17-19	0.5	0.5	1.1	0.7	0.9	0.1	0.3
Wood, paper, printing, and publishing.....	20-22	0.7	2.1	0.5	3.6	0.1	1.8	3.1
Chemical, rubber, plastics, and fuel products.....	23-25	22.5	8.1	39.7	11.3	8.5	30.6	9.1
Coke, refined petroleum products, and nuclear fuel.....	23	0.7	0.9	1.6	0.9	0.1	0.0	0.3
Chemicals and chemical products.....	24	20.0	6.4	35.7	9.8	7.0	29.2	7.3
Chemicals excluding pharmaceuticals.....	24 (minus 2423)	6.5	2.7	13.1	1.4	2.7	4.8	4.9
Pharmaceuticals.....	2,423	13.4	3.7	22.5	8.3	4.4	24.4	2.4
Rubber and plastics products.....	25	1.8	0.8	2.4	0.6	1.5	1.4	1.5
Other nonmetallic mineral products.....	26	0.7	1.3	1.2	0.1	2.1	0.4	0.4
Basic metals.....	27	0.9	3.6	2.9	2.0	1.2	0.2	1.0
Fabricated metal products (excluding machinery and equipment).....	28	1.1	1.2	2.9	1.7	1.7	0.4	2.3
Machinery and equipment, instruments, and transportation equipment.....	29-35	53.9	24.8	26.6	37.2	45.2	26.2	64.5
Machinery and equipment nec.....	29	7.8	3.4	5.0	2.5	6.9	8.9	6.2
Office, accounting, and computing machinery.....	30	2.0	0.7	0.4	2.9	0.2	0.8	0.1
Electrical machinery and apparatus nec.....	31	3.1	1.1	3.1	1.5	3.5	3.5	4.4
Radio, TV, and communication equipment.....	32	11.0	3.1	11.5	17.4	3.4	3.6	49.5
Instruments, watches, and clocks.....	33	5.4	4.6	2.3	2.0	1.6	9.2	2.8
Motor vehicles.....	34	16.9	10.0	2.2	3.8	26.2	0.1	0.2
Other transportation equipment.....	35	7.6	2.0	2.2	7.0	3.5	0.1	1.3
Building and repairing ships and boats.....	351	0.3	1.2	0.0	NA	0.0	NA	0.4
Aircraft and spacecraft.....	353	6.8	0.1	2.1	6.8	2.0	NA	0.4
Railroad and other transportation equipment nec.....	352+359	0.5	0.7	0.1	0.2	1.6	NA	0.5
Furniture, manufacturing nec.....	36	0.6	0.3	0.5	0.7	0.5	0.4	0.7
Recycling.....	37	NA	0.1	0.1	NA	0.2	NA	0.2
Electricity, gas, and water.....	40-41	0.7	1.0	0.7	0.9	0.1	0.1	0.6
Construction.....	45	0.4	1.8	1.6	0.3	1.2	0.4	1.2
Services.....	50-99	15.0	41.1	17.8	37.9	36.9	33.3	14.5
Wholesale and retail trade, repairs.....	50-52	0.8	4.4	0.8	4.8	2.2	0.9	0.2
Hotels and restaurants.....	55	NA	0.2	0.2	NA	0.0	NA	NA
Transport and storage.....	60-63	NA	0.5	1.1	0.3	0.3	NA	0.3
Post and telecommunications.....	64	NA	3.4	2.3	3.4	0.1	3.6	6.1
Post and courier activities.....	641	NA	0.3	0.0	NA	0.1	NA	NA
Telecommunications.....	642	NA	3.1	2.3	NA	0.1	2.5	NA
Financial intermediation.....	65-67	NA	8.6	0.7	2.1	1.1	7.7	NA
Real estate, renting, and business activities.....	70-74	NA	23.2	12.3	27.3	30.9	21.0	NA
Computer and related activities.....	72	5.6	10.1	7.1	9.3	8.6	14.0	6.2
Software consultancy and supply.....	722	NA	9.8	5.1	NA	6.5	12.9	NA
Other computer and related activities nec.....	72 (minus 722)	NA	0.3	2.0	NA	2.1	1.2	NA
R&D.....	73	NA	6.4	0.1	14.1	18.9	0.0	NA
Other business activities.....	74	2.2	6.3	5.0	3.9	3.4	7.0	1.0
Community, social, and personal services.....	75-99	NA	0.7	0.5	NA	2.3	0.1	0.7

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Share of business expenditures for R&D, by industry and selected country/economy: 2003 or 2004

(Percent)

Industry	ISIC	France (2003)	Germany (2004)	Ireland (2004)	Italy (2004)	Japan (2003)	South Korea (2004)	Netherlands (2004)
All business enterprise.....	na	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Manufacturing.....	15-37	86.3	91.2	60.9	74.8	88.9	88.0	77.4
Food products, beverages, and tobacco.....	15-16	2.1	0.7	3.5	1.9	2.8	1.2	4.5
Textiles, textile products, leather, and footwear.....	17-19	0.6	0.4	0.5	1.4	0.3	0.5	0.4
Wood, paper, printing, and publishing.....	20-22	0.4	0.5	0.9	0.3	1.1	0.2	1.0
Chemical, rubber, plastics, and fuel products.....	23-25	24.5	18.3	20.8	15.8	17.9	8.9	25.7
Coke, refined petroleum products, and nuclear fuel.....	23	0.9	0.1	0.0	0.1	0.4	0.8	0.1
Chemicals and chemical products.....	24	20.1	16.4	19.1	13.2	15.1	6.8	24.9
Chemicals excluding pharmaceuticals.....	24 (minus 2423)	6.3	8.0	1.8	5.2	7.6	5.0	14.8
Pharmaceuticals.....	2423	13.8	8.4	17.4	8.0	7.5	1.8	10.0
Rubber and plastics products.....	25	3.6	1.8	1.8	2.5	2.5	1.3	0.8
Other nonmetallic mineral products.....	26	1.0	0.9	0.9	0.8	1.0	0.7	0.6
Basic metals.....	27	1.1	0.8	0.1	0.5	2.2	2.0	1.0
Fabricated metal products (excluding machinery and equipment).....	28	0.9	1.5	0.7	0.9	0.7	0.5	0.7
Machinery and equipment, instruments, and transportation equipment.....	29-35	54.8	67.8	32.6	52.4	62.0	73.7	43.2
Machinery and equipment nec.....	29	4.8	10.0	3.3	11.2	7.7	4.8	10.0
Office, accounting, and computing machinery.....	30	1.0	1.4	4.4	0.6	12.7	1.0	23.8
Electrical machinery and apparatus nec.....	31	3.7	2.8	8.2	2.2	8.4	1.4	1.4
Radio, TV, and communication equipment.....	32	12.8	9.2	6.1	9.8	13.1	47.4	1.8
Instruments, watches, and clocks.....	33	6.6	7.0	10.2	7.1	4.3	1.6	2.6
Motor vehicles.....	34	14.7	32.2	0.3	11.1	15.1	14.7	2.2
Other transportation equipment.....	35	11.1	5.1	0.2	10.4	0.7	2.9	1.4
Building and repairing ships and boats.....	351	0.2	0.1	0.0	0.2	0.1	1.5	0.1
Aircraft and spacecraft.....	353	10.5	4.5	0.2	9.3	0.5	1.2	1.2
Railroad and other transportation equipment nec.....	352+359	0.4	0.4	0.0	0.9	0.2	0.3	0.1
Furniture, manufacturing nec.....	36	0.9	0.2	0.9	0.7	0.8	0.2	0.2
Recycling.....	37	0.0	0.0	NA	0.0	NA	0.0	0.0
Electricity, gas, and water.....	40-41	1.8	0.2	NA	0.3	0.7	1.1	0.5
Construction.....	45	0.4	0.1	NA	0.1	1.2	4.0	1.3
Services.....	50-99	9.4	8.3	38.7	24.4	9.1	6.9	18.3
Wholesale and retail trade, repairs.....	50-52	0.0	NA	0.3	3.0	0.7	0.1	4.5
Hotels and restaurants.....	55	0.0	NA	0.0	0.0	NA	0.0	NA
Transport and storage.....	60-63	NA	1.1	0.0	0.3	0.2	0.0	0.6
Post and telecommunications.....	64	3.9	NA	1.3	2.2	NA	1.4	0.2
Post and courier activities.....	641	NA	NA	0.0	0.0	NA	0.0	NA
Telecommunications.....	642	3.8	NA	1.3	2.2	NA	1.4	0.2
Financial intermediation.....	65-67	NA	NA	0.0	2.5	0.0	0.0	2.8
Real estate, renting, and business activities.....	70-74	5.5	6.7	37.0	16.3	8.2	5.1	10.1
Computer and related activities.....	72	4.2	NA	35.2	3.5	2.1	3.6	3.3
Software consultancy and supply.....	722	3.8	NA	33.9	3.2	NA	3.1	3.0
Other computer and related activities nec.....	72 (minus 722)	0.4	NA	1.3	0.4	NA	0.5	0.3
R&D.....	73	NA	NA	0.9	8.2	5.8	0.3	3.3
Other business activities.....	74	1.3	NA	0.9	4.5	0.2	1.3	3.5
Community, social, and personal services.....	75-99	NA	NA	0.2	0.1	NA	0.2	0.2

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Share of business expenditures for R&D, by industry and selected country/economy: 2003 or 2004
(Percent)

Industry	ISIC	Norway (2004)	Poland (2004)	Spain (2004)	Sweden (2003)	United Kingdom (2004)	United States (2004)
All business enterprise.....	na	100.0	100.0	100.0	100.0	100.0	100.0
Manufacturing	15-37	49.4	63.6	68.7	87.9	76.7	71.5
Food products, beverages, and tobacco	15-16	5.1	1.6	3.5	0.6	1.9	1.3
Textiles, textile products, leather, and footwear	17-19	0.6	1.1	1.8	0.1	0.2	0.3
Wood, paper, printing, and publishing	20-22	3.1	2.1	1.2	2.1	0.3	1.2
Chemical, rubber, plastics, and fuel products	23-25	9.1	17.3	19.6	21.8	30.6	20.4
Coke, refined petroleum products, and nuclear fuel	23	0.0	1.8	0.9	0.2	1.8	0.8
Chemicals and chemical products	24	8.6	13.4	16.8	21.1	28.2	18.8
Chemicals excluding pharmaceuticals.....	24 (minus 2423)	4.9	4.0	4.7	1.6	4.2	3.6
Pharmaceuticals	2423	3.6	9.3	12.1	19.5	24.0	15.1
Rubber and plastics products	25	0.5	2.1	1.8	0.4	0.5	0.9
Other nonmetallic mineral products	26	0.5	1.0	1.5	0.3	0.5	0.4
Basic metals.....	27	2.7	1.1	1.8	1.7	0.3	0.3
Fabricated metal products (excluding machinery and equipment)	28	1.4	0.6	2.1	0.6	0.6	0.7
Machinery and equipment, instruments, and transportation equipment.....	29-35	25.9	37.5	36.0	60.4	42.1	41.8
Machinery and equipment nec	29	7.3	10.3	6.6	7.0	7.7	3.2
Office, accounting, and computing machinery	30	0.1	0.4	1.1	1.0	0.4	2.8
Electrical machinery and apparatus nec	31	2.0	6.1	4.6	2.1	3.1	1.3
Radio, TV, and communication equipment.....	32	6.2	2.6	2.8	22.1	6.0	13.0
Instruments, watches, and clocks.....	33	5.4	2.6	2.1	5.5	2.7	7.3
Motor vehicles.....	34	1.6	8.8	10.0	18.9	6.5	7.5
Other transportation equipment.....	35	3.2	6.6	8.9	3.8	15.7	6.9
Building and repairing ships and boats	351	2.8	0.9	1.3	0.1	0.7	NA
Aircraft and spacecraft.....	353	0.2	4.4	6.6	3.2	14.8	6.3
Railroad and other transportation equipment nec	352+359	0.1	1.3	1.0	0.4	0.2	NA
Furniture, manufacturing nec	36	1.0	1.0	0.9	0.3	0.3	0.2
Recycling.....	37	0.1	0.1	0.2	NA	0.0	NA
Electricity, gas, and water.....	40-41	1.6	1.1	1.2	0.7	0.3	0.1
Construction.....	45	1.7	3.4	2.1	0.2	0.3	0.7
Services	50-99	35.2	24.7	25.6	10.4	21.1	28.5
Wholesale and retail trade, repairs.....	50-52	4.1	2.6	2.3	0.0	0.9	14.9
Hotels and restaurants	55	0.0	0.0	0.4	0.0	NA	NA
Transport and storage.....	60-63	1.0	3.3	0.9	0.1	0.1	0.2
Post and telecommunications	64	3.6	3.2	5.6	1.5	4.6	NA
Post and courier activities	641	0.0	0.0	0.0	NA	NA	NA
Telecommunications	642	3.6	3.2	5.6	NA	NA	1.0
Financial intermediation	65-67	3.4	1.5	1.4	1.3	NA	0.8
Real estate, renting, and business activities.....	70-74	23.1	5.2	13.0	6.5	15.3	NA
Computer and related activities	72	12.2	2.8	6.6	2.6	8.2	13.5
Software consultancy and supply	722	9.2	2.8	5.6	1.6	NA	7.9
Other computer and related activities nec	72 (minus 722)	3.0	0.0	0.9	1.0	NA	5.6
R&D	73	3.7	1.6	0.2	3.7	4.6	5.5
Other business activities	74	7.2	0.8	6.2	0.3	2.4	2.8
Community, social, and personal services.....	75-99	0.0	9.0	2.0	0.9	0.3	NA

na = not applicable; NA = not available

EU = European Union; ISIC = International Standard Industrial Classification; nec = not elsewhere classified; UK = United Kingdom

NOTES: Because Organisation for Economic Co-operation and Development (OECD) and National Science Foundation (NSF) adjust country data to achieve internationally comparable estimates, data may differ from individual countries' survey estimates. Detail may not add to total because of rounding.

SOURCES: OECD, ANBERD database, http://www1.oecd.org/dsti/sti/stat-ana/stats/eas_anb.htm, accessed 1 March 2007; and NSF, special tabulations.