

TABLE 102. Worldwide R&D paid for by others and performed by the company, by business activity: 2010
(Millions of U.S. dollars)

Business activity	Business code ^a	Amount
All business activities	21100-81000	74,975
Oil and gas extraction	21100	D
Mining	21200	1
Support activities for mining, including oil and gas	21300	D
Utilities	22100	133
Construction	23000	371 i
Food	31100	67 i
Beverage	31210	0
Tobacco	31220	D
Textiles, apparel, and leather products	31990	0
Wood products	32100	0
Paper	32200	4
Printing and related support activities	32300	0
Petroleum refineries	32401	D
Asphalt paving, roofing, and saturated materials	32402	0
Other petroleum and coal products, including motor oil, hydraulic fluid, and charcoal	32403	*
Basic chemicals	32510	118
Resin, synthetic rubber, and artificial synthetic fibers and filaments	32520	2
Pesticide, fertilizer, and other agricultural chemical	32530	D
Pharmaceutical, medicinal, botanical, and biological products (except diagnostic)	32541	6,291
In-vitro diagnostic substances	32542	9
Soap, cleaning compound, and toilet preparation	32591	1
Paint, adhesive, and other chemical	32592	D
Plastics and rubber products	32600	308 i
Clay and glass products	32710	28
Cement, concrete, lime, gypsum, and other nonmetallic mineral product	32790	D
Primary metal	33100	42
Fabricated metal products	33200	14
Agricultural machinery and equipment	33311	18
Construction machinery	33312	2
Mining, oil, and gas field machinery and equipment	33319	16
Semiconductor machinery	33321	118 i
Industrial machinery, except semiconductor machinery	33322	19
Photographic and photocopying equipment	33331	D
Commercial, service industry, temperature control, and air-flow control machinery	33332	57
Engine, turbine, and power transmission equipment	33360	146
Metalworking and other general purpose machinery	33390	75
Computers and peripheral equipment and magnetic and optical media	33412	608
Telephone apparatus, including routers, modems, and gateways	33421	D
Radio, television, and wireless communication equipment	33422	2,497
Other communication equipment, except radio, television, and wireless communication equipment	33429	94 i
Audio and video equipment	33430	94
Semiconductor and other electronic components	33440	368
Electromedical, electrotherapeutic, and irradiation apparatus	33451	151
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	33452	4,619
Measuring and control instruments (not listed elsewhere)	33459	92
Electrical equipment, appliances, and components	33500	115
Motor vehicles	33610	584
Motor vehicle body and trailer	33620	0
Motor vehicle parts	33630	762 i
Aircraft	33641	D
Aircraft engine and engine parts	33642	1,463

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Other aircraft parts and auxiliary equipment	33643	832
Guided missile, space vehicle, and related parts	33644	4,050
Railroad rolling stock	33651	0
Ship and boat building	33660	D
Motorcycle, bicycle, and parts	33691	0
Military armored vehicle, tank, and tank components	33692	D
All other transportation equipment	33699	D
Furniture and related products	33700	0
Medical equipment and supplies	33910	230
Miscellaneous manufacturing not listed elsewhere (games, office supplies, slot machines, etc.)	33990	55
Merchant wholesalers, durable goods	42300	30
Merchant wholesalers, nondurable goods	42400	3
Wholesale electronic markets and agents and brokers (business to business)	42500	59
Retail trade, except electronic shopping and electronic auctions	44000	0
Electronic shopping and electronic auctions	45411	0
Transportation	48000	13
Couriers, messengers, and express delivery services	49200	0
Warehousing and storage	49300	D
Newspaper, periodical, book, and directory publishers (except Internet)	51110	0
Software publishers (except Internet)	51120	298
Motion picture and sound recording (except Internet)	51200	0
Broadcasting (except Internet)	51500	0
Wired telecommunications carriers	51710	1
Wireless telecommunications carriers (except satellite)	51720	D
Satellite telecommunications	51740	D
Other telecommunications (not listed elsewhere)	51790	52
Data processing, hosting, and related services	51800	1
Other information services including Internet publishing, broadcasting, and Web search portals	51910	6
Finance: banking and credit intermediation	52200	0
Securities, commodity contracts, and other financial investments and related activities (including funds and trusts)	52310	*
Insurance carriers and related activities	52400	0
Real estate	53100	0
Rental and leasing services	53200	0
Lessors of nonfinancial intangible assets (including patent licensing)	53300	0
Legal, accounting, tax preparation, bookkeeping, and payroll services	54111	D
Architectural, engineering, and related services	54130	2,062 i
Specialized design services	54140	120
Computer systems design and related services	54150	921
Management, scientific, and technical consulting services	54160	1,036
R&D services in social sciences and humanities	54172	D
R&D services in biotechnology	54173	4,453
R&D services in physical, engineering, and life sciences (except biotechnology)	54174	9,141
Advertising and related services	54180	1
Professional, scientific, and technical services (not listed elsewhere)	54190	1,006
Management of companies and enterprises	55100	0
Administrative and support services	56100	31
Waste management and remediation services	56200	D
Offices of physicians	62110	1 i
Medical and diagnostic laboratories	62150	715
Other ambulatory health care services (ambulance, dental, home health care)	62199	2
Hospitals and nursing care facilities	62200	16

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Business activity	Business code ^a	Amount
Social assistance services	62400	0
Arts, entertainment, and recreation	71000	1 i
Accommodation and food services	72000	0
Other services (not listed elsewhere)	81000	15
Undistributed	–	15,544 i

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = value > 50% of estimate is a combination of imputation and reweighting to account for nonresponse.

^a Data tabulated independent of industry classification of company. Companies were asked to report their sales and R&D into one or more business codes. Business codes and descriptions based on 2007 North American Industry Classification System industry definitions.

NOTES: Detail may not add to total because of rounding. Statistics are representative of companies located in United States that performed or funded R&D.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey, 2010.