

TABLE 34. Domestic R&D paid for by other companies and performed by the company, by funders' business activity: 2012  
(Millions of U.S. dollars)

Funders' business activity <sup>a</sup>	Business code <sup>b</sup>	Amount
All business activities	21100–81000	23,717
Oil and gas extraction	21100	69
Mining	21200	11
Support activities for mining, including oil and gas	21300	D
Utilities	22100	87
Construction	23000	1
Food manufacturing	31100	114
Beverage manufacturing	31210	D
Tobacco manufacturing	31220	4
Textile, apparel, and leather products manufacturing	31990	12
Wood products manufacturing	32100	D
Paper manufacturing	32200	2
Printing and related support activities	32300	9
Petroleum refineries	32401	55
Asphalt paving, roofing, and saturated materials manufacturing	32402	0
Other petroleum and coal products manufacturing, including motor oil, hydraulic fluid, and charcoal	32403	0
Basic chemicals manufacturing	32510	86
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	32520	83 i
Pesticide, fertilizer, and other agricultural chemical manufacturing	32530	4
Pharmaceutical, medicinal, botanical, and biological products (except diagnostic) manufacturing	32541	1,583
In vitro diagnostic substances manufacturing	32542	2
Soap, cleaning compound, and toilet preparations manufacturing	32591	20
Paint, adhesive, and other chemical manufacturing	32592	3
Plastics and rubber products manufacturing	32600	25
Clay and glass products manufacturing	32710	4 i
Cement, concrete, lime, gypsum, and other nonmetallic mineral product manufacturing	32790	*
Primary metal manufacturing	33100	38
Fabricated metal products manufacturing	33200	35
Agricultural machinery and equipment manufacturing	33311	41
Construction machinery manufacturing	33312	10
Mining, oil, and gas field machinery and equipment manufacturing	33319	20
Semiconductor machinery manufacturing	33321	66 i
Industrial machinery manufacturing, except semiconductor machinery	33322	1
Photographic and photocopying equipment manufacturing	33331	4
Commercial, service industry, temperature control, and air-flow control machinery manufacturing	33332	3
Engine, turbine, and power transmission equipment manufacturing	33360	98
Metalworking and other general-purpose machinery manufacturing	33390	18
Computers and peripheral equipment manufacturing and magnetic and optical media	33412	120
Telephone apparatus manufacturing, including routers, modems, and gateways	33421	0
Radio, television, and wireless communication equipment manufacturing	33422	373
Other communication equipment manufacturing, except radio, television, and wireless communication equipment	33429	68
Audio and video equipment manufacturing	33430	14
Semiconductor and other electronic components manufacturing	33440	877
Electromedical, electrotherapeutic, and irradiation apparatus manufacturing	33451	10
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments manufacturing	33452	546
Measuring and control instruments manufacturing (not listed elsewhere)	33459	34

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Electrical equipment, appliances, and components manufacturing	33500	113
Motor vehicles manufacturing	33610	1,129
Motor vehicle body and trailer manufacturing	33620	0
Motor vehicle parts manufacturing	33630	282
Aircraft manufacturing	33641	81
Aircraft engine and engine parts manufacturing	33642	163
Other aircraft parts and auxiliary equipment manufacturing	33643	545
Guided missiles, space vehicles, and parts manufacturing	33644	228
Railroad rolling stock manufacturing	33651	1
Ship and boat building	33660	1
Motorcycle, bicycle, and parts manufacturing	33691	11 i
Military armored vehicle, tank, and tank components manufacturing	33692	40
All other transportation equipment manufacturing	33699	111
Furniture and related products manufacturing	33700	*
Medical equipment and supplies manufacturing	33910	172
Miscellaneous manufacturing (not listed elsewhere: games, office supplies, slot machines, etc.)	33990	56
Merchant wholesalers, durable goods	42300	11
Merchant wholesalers, nondurable goods	42400	20 i
Wholesale electronic markets and agents and brokers (business to business)	42500	*
Retail trade, except electronic shopping and electronic auctions	44000	*
Electronic shopping and electronic auctions	45411	D
Transportation	48000	7
Couriers, messengers, and express delivery services	49200	0
Warehousing and storage	49300	0
Newspaper, periodical, book, and directory publishers (except Internet)	51110	0
Software publishers (except Internet)	51120	28 i
Motion picture and sound recording (except Internet)	51200	0
Broadcasting (except Internet)	51500	1
Wired telecommunications carriers	51710	0
Wireless telecommunications carriers (except satellite)	51720	23
Satellite telecommunications	51740	34
Other telecommunications (not listed elsewhere)	51790	22
Data processing, hosting, and related services	51800	0
Other information services, including Internet publishing, broadcasting, and Web search portals	51910	6
Finance: banking and credit intermediation	52200	1
Securities, commodity contracts, and other financial investments and related activities (including funds and trusts)	52310	5
Insurance carriers and related activities	52400	8
Real estate	53100	0
Rental and leasing services	53200	*
Lessors of nonfinancial intangible assets (including patent licensing)	53300	3
Legal, accounting, tax preparation, bookkeeping, and payroll services	54111	*
Architectural, engineering, and related services	54130	72
Specialized design services	54140	42
Computer systems design and related services	54150	267
Management, scientific, and technical consulting services	54160	84
Research and development services in social sciences and humanities	54172	5
Research and development services in biotechnology	54173	1,676
Research and development services in physical, engineering, and life sciences (except biotechnology)	54174	721
Advertising and related services	54180	9
Professional, scientific, and technical services (not listed elsewhere)	54190	199
Management of companies and enterprises	55100	*

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Administrative and support services	56100	19
Waste management and remediation services	56200	*
Offices of physicians	62110	0
Medical and diagnostic laboratories	62150	507
Other ambulatory health care services (ambulance, dental, home health care)	62199	3
Hospitals and nursing care facilities	62200	*
Social assistance services	62400	0
Arts, entertainment, and recreation	71000	48 i
Accommodation and food services	72000	0
Other services (not listed elsewhere)	81000	48
Undistributed	-	11,992 i

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

NAICS = 2007 North American Industry Classification System.

<sup>a</sup> Data are tabulated independent of the industry classification and business activities of the company that performs R&D.

<sup>b</sup> Business codes and descriptions are based on 2007 NAICS industry definitions.

NOTES: Detail may not add to total because of rounding. Statistics are representative of companies located in the 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, 2012.