

TABLE 50. Business R&amp;D and Innovation Survey item aggregate amounts, by questionnaire reference: 2009

Question	Survey item	Aggregate amount
Company and financial information (US\$millions)		
1.7	Worldwide net sales and operating revenues	10,139,109
1.8	Net sales and operating revenues from domestic operations	7,407,583
2.13(1) + 3.10(1)	Total domestic R&D performance	282,393
2.4	Worldwide R&D expense	312,444
2.8a	Domestic R&D incurred	251,938
2.8b	Foreign R&D incurred	60,506
2.11a(1)	Salaries, wages, and fringe benefits	131,330
2.11b(1)	Stock-based compensation	8,346
2.11c(1)	Temporary staffing	8,895
2.11d(1)	Expensed equipment	2,603
2.11e(1)	Materials and supplies	13,980
2.11f(1)	Lease and rental payments	2,953
2.11g(1)	Depreciation and amortization	11,112
2.11h(1)	Payments to business partners for collaborative R&D	5,449
2.11i(1)	Purchased R&D services	21,569
2.11j(1)	All other purchased services except R&D	3,323
2.11k(1)	Allocated costs	7,380
2.11l(1)	All other costs	34,998
2.12(1)	Domestic R&D performed by others	27,018
2.12(2)	Foreign R&D performed by others	9,241
2.12(3)	Worldwide R&D performed by others	36,259
2.13(1)	Domestic R&D performance	224,920
2.13(2)	Foreign R&D performance	51,265
2.13(3)	Worldwide R&D performance	276,185
Location of foreign performance		
2.15a	Puerto Rico	111
2.15b	Canada	3,349
2.15c	China	2,765
2.15d	France	2,160
2.15e	Germany	6,818
2.15f	India	3,129
2.15g	Ireland	989
2.15h	Israel	2,253
2.15i	Italy	828
2.15j	Japan	2,552
2.15k	Russia	246
2.15l	Singapore	738
2.15m	South Korea	731
2.15n	Sweden	1,095
2.15o	United Kingdom	5,365
2.15p	Other foreign countries	13,098
2.15	Undistributed (foreign)	5,038
2.19	Performed at largest domestic location	143,165
2.21	Paid for by foreign operations or subsidiaries	3,816
Performed by others		
2.23a	Companies in United States	22,368
2.23b	Companies outside United States	7,226
2.23c	U.S. federal government	212
2.23d	U.S. state and local governments	14
2.23e	Foreign governments	6
2.23f	Universities and colleges in United States	1,116
2.23g	Universities and colleges outside United States	234
2.23h	All other organizations	235
2.23	Undistributed (from Form BRDI-1A only)	4,849
Projected worldwide R&D expense for 2010		
2.24(1)	Domestic R&D incurred	264,857
2.24(2)	Foreign R&D incurred	62,326

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Question	Survey item	Aggregate amount
2.24(3)	Worldwide R&D expense	327,181
2.25	Projected R&D services and projected payments for collaborative R&D	21,574
2.26	Total domestic capital expenditures	393,980
2.27	Domestic capital expenditures for R&D	28,335
2.28a	Structures	2,385
2.28b	Equipment	11,896
2.28c	Capitalized software	3,878
2.28d	All other expenditures	1,735
2.28	Undistributed (from Form BRDI-1A only)	8,441
	R&D expense paid for by others	
3.1i	Worldwide	76,426
3.5a	Domestic R&D expense	71,589
3.5b	Foreign R&D expense	4,837
3.8a(1)	Salaries, wages, and fringe benefits	32,522
3.8b(1)	Stock-based compensation	578
3.8c(1)	Temporary staffing	1,186
3.8d(1)	Expensed equipment	412
3.8e(1)	Materials and supplies	6,362
3.8f(1)	Lease and rental payments	924
3.8g(1)	Depreciation and amortization	1,025
3.8h(1)	Payments to business partners for collaborative R&D	1,308
3.8i(1)	Purchased R&D services	12,808
3.8j(1)	All other purchased services except R&D	404
3.8k(1)	Allocated costs	2,577
3.8l(1)	All other costs	11,482
3.9(1)	Domestic R&D performed by others	14,116
3.9(2)	Foreign R&D performed by others	1,189
3.9(3)	Worldwide R&D performed by others	15,305
3.10(1)	Domestic R&D performance	57,473
3.10(2)	Foreign R&D performance	3,648
3.10(3)	Worldwide R&D performance	61,121
	Location of foreign performance	
3.12a	Puerto Rico	13
3.12b	Canada	409
3.12c	China	40
3.12d	France	254
3.12e	Germany	294
3.12f	India	78
3.12g	Ireland	48
3.12h	Israel	40
3.12i	Italy	76
3.12j	Japan	153
3.12k	Russia	28
3.12l	Singapore	103
3.12m	South Korea	28
3.12n	Sweden	44
3.12o	United Kingdom	605
3.12p	Other foreign countries	1,079
3.12q	Undistributed (foreign)	356
	R&D performed in United States	
3.14a	Funded by contracts	39,423
3.14b	Funded by grants	6,304
3.14	Undistributed (from Form BRDI-1A only)	11,746
3.15a	Funded by companies in United States	9,567
3.15b	Companies outside United States	7,647
3.15c	U.S. federal government	39,573
3.15d	U.S. state and local governments	195
3.15e	Foreign governments	59

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Question	Survey item	Aggregate amount
3.15f	Other organizations in United States	363
3.15g	Other organizations outside United States	68
3.17a	Aerospace companies	978
3.17b	Computer or software product companies	607
3.17c	Electronic product companies	1,237
3.17d	Motor vehicle companies	446
3.17e	Petrochemical companies	111
3.17f	Pharmaceutical companies	6,206
3.17g	Other types of companies	2,876
3.17	Undistributed (from Form BRDI-1A only)	4,753
3.19a	Department of Defense	28,179
3.19b	Department of Energy	987
3.19c	National Aeronautics and Space Administration	2,104
3.19d	National Institutes of Health	916
3.19e	Other U.S. federal agencies	7,387
	Projected R&D paid for by others in 2010	
3.22	Total worldwide	68,867
3.23	Performed by company in United States	54,390
3.24	Funded by U.S. federal government	32,535
	R&D performed in United States	
4.17b	Basic research	12,206
4.17a	Applied research	29,769
4.16b	Development	182,945
4.18	Defense applications	8,297
4.19	Health or medical applications	63,452
4.20	Energy applications	16,482
4.21	Environmental protection applications	6,615
4.22	Agricultural applications	3,082
4.23	Software products	48,402
4.24	Software embedded in other projects	15,875
4.25	Processes	33,044
4.26	Medical clinical trials	18,073
4.27	Production of prototypes	13,663
4.28	Operation of pilot plants	2,551
4.29	Biotechnology	19,482
4.30	Nanotechnology	11,601
4.31	Social sciences	522
	Performed by others	
4.34b	Basic research projects	2,172
4.34a	Applied research projects	3,625
4.33b	Development projects	25,609
4.33	Undistributed (from Form BRDI-1A only)	4,853
	Paid for by others, performed in United States	
4.42b	Basic research	2,578
4.42a	Applied research	11,286
4.41b	Development	43,609
4.43	Medical clinical trials	6,363
4.44	Production of prototypes	2,697
4.45	Defense applications	26,602
4.46	Health or medical applications	14,866
4.47	Energy applications	2,260
4.48	Environmental protection applications	1,225
4.49	Agricultural applications	529
	Federally funded	
4.53b	Basic research	1,340
4.53a	Applied research	7,797
4.52b	Development	30,435
4.54	Production of prototypes	5,112

TABLE 50. Business R&amp;D and Innovation Survey item aggregate amounts, by questionnaire reference: 2009

Question	Survey item	Aggregate amount
Employees (thousands)		
5.1	Worldwide	27,094
	R&D employees	
5.2	Total	1,879
5.3e(1)	Female	463
5.3e(2)	Male	1,416
5.3a(1)	Female engineers	173
5.3a(2)	Male engineers	923
5.3a(3)	All engineers	1,097
5.3b(1)	Female scientists	90
5.3b(2)	Male scientists	146
5.3b(3)	All scientists	236
5.3c(1)	Female technicians	87
5.3c(2)	Male technicians	230
5.3c(3)	All technicians	318
5.3d(1)	Female support staff	112
5.3d(2)	Male support staff	116
5.3d(3)	All support staff	228
	R&D scientists and engineers	
5.5a	PhD degree holders	155
5.5b	Other higher education degree holders	976
5.5c	All other scientists and engineers	202
5.6	Domestic	17,788
	R&D employees	
5.7	Total	1,424
5.8e(1)	Female	347
5.8e(2)	Male	1,077
5.8a(1)	Female engineers	122
5.8a(2)	Male engineers	685
5.8a(3)	All engineers	807
5.8b(1)	Female scientists	73
5.8b(2)	Male scientists	119
5.8b(3)	All scientists	192
5.8c(1)	Female technicians	67
5.8c(2)	Male technicians	180
5.8c(3)	All technicians	247
5.8d(1)	Female support staff	86
5.8d(2)	Male support staff	92
5.8d(3)	All support staff	179
	R&D scientists and engineers	
5.10a	PhD degree holders	128
5.10b	Other higher education degree holders	739
5.10c	All other scientists and engineers	132

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, 2009.