

TABLE 94. Business R&D and Innovation Survey item aggregate amounts, by questionnaire reference: 2010

Question	Survey item	Aggregate amount
Company and financial information (US\$millions)		
1.8	Worldwide net sales and operating revenues	12,182,049
1.9	Net sales and operating revenues from domestic operations	8,818,081
2.13(1) + 3.10(1)	Total domestic R&D performance	278,977
2.4	Worldwide R&D expense	316,201
2.6	Independent research and development (IR&D)	13,881
2.8a	Domestic R&D incurred	250,922
2.8b	Foreign R&D incurred	65,280
2.11a(1)	Salaries, wages, and fringe benefits	132,752
2.11b(1)	Stock-based compensation	7,831
2.11c(1)	Temporary staffing	8,793
2.11d(1)	Expensed equipment	2,492
2.11e(1)	Materials and supplies	14,021
2.11f(1)	Lease and rental payments	2,821
2.11g(1)	Depreciation and amortization	9,746
2.11h(1)	Payments to business partners for collaborative R&D	6,503
2.11i(1)	Purchased R&D services	22,713
2.11j(1)	All other purchased services except R&D	3,072
2.11k(1)	Allocated costs	7,250
2.11l(1)	All other costs	32,926
2.12(1)	Domestic R&D performed by others	29,216
2.12(2)	Foreign R&D performed by others	9,914
2.12(3)	Worldwide R&D performed by others	39,130
2.13(1)	Domestic R&D performance	221,706
2.13(2)	Foreign R&D performance	55,366
2.13(3)	Worldwide R&D performance	277,071
2.19	Performed at largest domestic location	132,119
2.21	Paid for by foreign operations or subsidiaries	3,519
	Domestic R&D performed by others	
2.23a	Companies in United States	21,256
2.23b	Your company's foreign owner	245
2.23c	Companies outside United States	2,266
2.23d	U.S. federal government	136
2.23e	U.S. state and local governments	8
2.23f	Foreign governments	20
2.23g	Universities and colleges in United States	829
2.23h	Universities and colleges outside United States	188
2.23i	All other organizations	352
2.23	Undistributed (from Form BRDI-1A only)	3,916
	Projected worldwide R&D expense for 2011	
2.24(1)	Domestic R&D incurred	271,529
2.24(2)	Foreign R&D incurred	65,912
2.24(3)	Worldwide R&D incurred	337,441
2.25	Projected R&D services and projected payments for collaborative R&D	34,777
2.26	Total domestic capital expenditures	790,040
2.27	Domestic capital expenditures for R&D	25,113
2.28a	Structures	1,899
2.28b	Equipment	8,436
2.28c	Capitalized software	5,083
2.28d	All other expenditures	2,226
2.28	Undistributed (from Form BRDI-1A only)	7,469
	R&D expense paid for by others	
3.1j	Worldwide	74,975
3.5a	Domestic R&D incurred	69,590
3.5b	Foreign R&D incurred	5,385
3.8a(1)	Salaries, wages, and fringe benefits	33,372
3.8b(1)	Stock-based compensation	194

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3.8c(1)	Temporary staffing	1,557
3.8d(1)	Expensed equipment	452 i
3.8e(1)	Materials and supplies	7,146
3.8f(1)	Lease and rental payments	571
3.8g(1)	Depreciation and amortization	1,152
3.8h(1)	Payments to business partners for collaborative R&D	1,176
3.8i(1)	Purchased R&D services	11,144 i
3.8j(1)	All other purchased services except R&D	783
3.8k(1)	Allocated costs	1,903
3.8l(1)	All other costs	10,142 i
3.9(1)	Domestic R&D performed by others	12,319 i
3.9(2)	Foreign R&D performed by others	1,522
3.9(3)	Worldwide R&D performed by others	13,841
3.10(1)	Domestic R&D performance	57,271
3.10(2)	Foreign R&D performance	3,863
3.10(3)	Worldwide R&D performance	61,134
	R&D performed in United States	
3.14a	Funded by companies in United States	11,013
3.14b	Your company's foreign owner	7,102
3.14c	Companies outside United States	3,913
3.14d	U.S. federal government	34,199 i
3.14e	U.S. state and local governments	156
3.14f	Foreign governments	37
3.14g	Other organizations in United States	779
3.14h	Other organizations outside United States	74
	Federally funded R&D	
3.16a	Department of Defense	28,545 i
3.16b	Department of Energy	1,089
3.16c	National Aeronautics and Space Administration	1,872
3.16d	National Institutes of Health	872
3.16e	Other U.S. federal agencies	1,822
3.17a	Funded by contracts	21,041
3.17b	Funded by grants	1,315 i
3.17	Undistributed (from Form BRDI-1A only)	11,843
	Projected R&D paid for by others in 2011	
3.20	Total worldwide	74,777
3.21	Performed by company in United States	64,547
3.22	Funded by U.S. federal government	36,272 i
	R&D expense	
	Worldwide	
4.3	New business areas or product lines	25,060
4.4	Science/technology new to company	19,624
4.5	Science/technology new to market	33,736
4.6	R&D agreements	11
	R&D performed in United States	
4.11b	Basic research	13,453
4.11a	Applied research	35,475
4.10b	Development	172,777
4.12	Energy applications	16,477
4.13	Environmental protection applications	7,923
4.14	Software products	46,513
4.15	Software embedded in other projects	17,304
4.16	Medical clinical trials	22,826
4.17	Biotechnology	20,061
4.18	Nanotechnology	11,532

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Question	Survey item	Aggregate amount
	Paid for by others, performed in United States	
4.23b	Basic research	2,918
4.23a	Applied research	9,431
4.22b	Development	44,922 i
4.24	Medical clinical trials	6,618
4.25	Energy applications	2,910
4.26	Environmental protection applications	1,766 i
4.27	Biotechnology	7,313
4.28	Nanotechnology	1,968
	Federally funded	
4.32b	Basic research	1,406
4.32a	Applied research	4,705
4.31b	Development	28,089 i
Employees (thousands)		
5.1	Total employees	29,195
5.3b(3)	Non-R&D employees	27,271
5.3a(3)	R&D employees	1,924
5.5a(3)	Female	487
5.5b(3)	Male	1,437
5.6a(3)	Scientists and engineers	1,307
5.6b(3)	Technicians	389
5.6c(3)	Support staff	228
	R&D scientists and engineers	
5.8a(3)	PhD degree holders	155
5.8b(3)	All other	1,152
	Domestic	
5.2(1)	Total employees	18,638
5.3b(1)	Non-R&D employees	17,226
5.3a(1)	R&D employees	1,412
5.5a(1)	Female	352
5.5b(1)	Male	1,060
5.6a(1)	Scientists and engineers	950
5.6b(1)	Technicians	292
5.6c(1)	Support staff	170
	R&D scientists and engineers	
5.8a(1)	PhD degree holders	123
5.8b(1)	All other	828
	Foreign	
5.2(2)	Total employees	10,557
5.3b(2)	Non-R&D employees	10,045
5.3a(2)	R&D employees	512
5.5a(2)	Female	135
5.5b(2)	Male	376
5.6a(2)	Scientists and engineers	357
5.6b(2)	Technicians	97
5.6c(2)	Support staff	58
	R&D scientists and engineers	
5.8a(2)	PhD degree holders	32
5.8b(2)	All other	324
5.9	Temporary visa	25
5.10	Domestic full-time equivalent (FTE) R&D scientists and engineers, total	804
5.11	Domestic FTE R&D scientists and engineers working on federal grants or contracts	74 i
U.S. patents		
6.1	Applied for (number)	123,084
6.2	Applications, also foreign (number)	66,707
6.3	Applications originated from R&D (number)	105,129

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Question	Survey item	Aggregate amount
6.4	Issued (number)	86,889
6.7	New agreements to license patents to others (number)	8,230
6.6	Revenue from patent licensing (US\$millions)	28,751

i = value > 50% of estimate is a combination of imputation and reweighting to account for nonresponse.

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.