

TABLE 1. Business R&amp;D and Innovation Survey item aggregate amounts, by questionnaire reference: 2008

Question	Survey item	Aggregate amount
Company and financial information (US\$millions)		
1.6	Worldwide net sales and operating revenues	10,976,518
1.7	Net sales and operating revenues from domestic operations	7,796,340
2.6a + 4.4a	Domestic R&D performance	290,680
2.1	Worldwide R&D expense	328,040
2.3a	Performed by company	289,403
2.3b	Performed by others	38,636
2.5a	Companies in United States	22,502
2.5b	Companies outside United States	8,191
2.5c	U.S. federal government	132
2.5d	U.S. state and local governments	14
2.5e	Foreign governments	14
2.5f	Universities and colleges in United States	1,277
2.5g	Universities and colleges outside United States	513
2.5h	All other organizations	506
2.5	Undistributed	5,487
Location of performance		
2.6a	United States	232,505
2.6b	Puerto Rico	226
2.6c	Canada	4,571
2.6d	China	2,555
2.6e	France	2,573
2.6f	Germany	7,619
2.6g	India	3,234
2.6h	Ireland	1,126
2.6i	Israel	2,203
2.6j	Italy	855
2.6k	Japan	2,487
2.6l	Russia	257
2.6m	Singapore	753
2.6n	South Korea	980
2.6o	Sweden	1,678
2.6p	United Kingdom	7,235
2.6q	Other foreign countries	15,103
2.6	Undistributed (foreign)	3,443
R&D performed in United States		
2.7	Paid for by foreign operations or subsidiaries	6,657
2.8a	Gross annual payroll	112,527
2.8b	Fringe benefits	24,051
2.8c	Stock-based compensation	7,447
2.8d	Temporary staffing	5,890
2.8e	Expensed equipment	2,184
2.8f	Materials and supplies	15,610
2.8g	Lease and rental payments	2,381
2.8h	Depreciation and amortization	10,465
2.8i	All other costs	51,951
2.11	Performed at largest domestic location	154,700
2.13	Domestic R&D expense	260,172
2.15	Domestic capital expenditures for R&D	33,634
2.16a	Structures	4,604
2.16b	Equipment	11,219
2.16c	Capitalized software	3,402
2.16d	All other expenditures	2,528
2.16	Undistributed (from Form BRDI-1A only)	11,881
Projected worldwide R&D expense for 2009		
2.17a	Performed by company in United States	239,091
2.17b	Performed by company outside United States	49,163

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2.17c	Performed by others	29,039
2.17d	Total	317,292
	R&D expense	
	R&D performed in United States	
3.17b	Basic research	10,028
3.17a	Applied research	36,425
3.16b	Development	186,050
3.22	Defense applications	9,718
3.23	Health or medical applications	66,404
3.24	Energy applications	16,107
3.25	Environmental protection applications	6,923
3.26	Agricultural applications	3,869
3.27	Software products	44,635
3.28	Software embedded in other projects	19,747
3.29	Processes	39,933
3.30	Medical clinical trials	18,426
3.31	Production of prototypes	15,309
3.32	Operation of pilot plants	3,613
3.33	Biotechnology	19,832
3.34	Nanotechnology	11,848
3.35	Social sciences	780
	Performed by others	
3.37b	Basic research projects	1,753
3.37a	Applied research projects	4,433
3.36b	Development projects	26,958
3.36	Undistributed (from Form BRDI-1A only)	5,492
	R&D paid for by others	
4.1	Worldwide	75,357
4.2a	Performed by company	62,752
4.2b	Performed by others	12,606
	Location of performance	
4.4a	United States	58,176
4.4b	Puerto Rico	24
4.4c	Canada	440
4.4d	China	35
4.4e	France	286
4.4f	Germany	305
4.4g	India	121
4.4h	Ireland	66
4.4i	Israel	21
4.4j	Italy	80
4.4k	Japan	186
4.4l	Russia	26
4.4m	Singapore	106
4.4n	South Korea	15
4.4o	Sweden	57
4.4p	United Kingdom	912
4.4q	Other foreign countries	1,144
4.4	Undistributed (foreign)	752
	R&D performed in United States	
4.6a	Gross annual payroll	22,782
4.6b	Fringe benefits	7,190
4.6c	Stock-based compensation	252
4.6d	Temporary staffing and leased employees	1,170
4.6e	Expensed equipment	314
4.6f	Materials and supplies	6,904
4.6g	Lease and rental payments	685

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4.6h	Depreciation and amortization	1,024
4.6i	All other costs	17,857
4.7a	Funded by contracts	41,011
4.7b	Funded by grants	5,451
4.7	Undistributed (from Form BRDI1-A only)	11,714
	Funding source	
4.8a	Funded by companies in United States	12,181
4.8b	Companies outside United States	8,877
4.8c	U.S. federal government	36,360
4.8d	U.S. state and local governments	306
4.8e	Foreign governments	48
4.8f	Other organizations in United States	334
4.8g	Other organizations outside United States	70
4.9a	Aerospace companies	1,527
4.9b	Computer or software product companies	619
4.9c	Electronic product companies	1,425
4.9d	Motor vehicle companies	869
4.9e	Petrochemical companies	104
4.9f	Pharmaceutical companies	6,498
4.9g	Other types of companies	2,198
4.9	Undistributed (from Form BRDI-1A only)	7,818
4.10a	Department of Defense	28,314
4.10b	Department of Energy	527
4.10c	National Aeronautics and Space Administration	2,136
4.10d	National Institutes of Health	877
4.10e	Other U.S. federal agencies	4,506
4.11	Independent R&D (IR&D)	3,371
	Projected R&D paid for by others in 2009	
4.13	Total worldwide	66,506
4.14	Performed by company in United States	58,330
4.15	Funded by U.S. federal government	35,512
	Performed in United States	
4.17b	Basic research	2,341
4.17a	Applied research	10,439
4.16b	Development	45,396
4.18	Medical clinical trials	5,738
4.19	Production of prototypes	7,960
4.20	Defense applications	31,782
4.21	Health or medical applications	9,698
4.22	Energy applications	2,081
4.23	Environmental protection applications	1,274
4.24	Agricultural applications	379
	Federally funded	
4.26b	Basic research	1,475
4.26a	Applied research	5,397
4.25b	Development	29,488
4.27	Production of prototypes	3,627
Employees (thousands)		
5.1	Worldwide	27,068
	R&D employees	
5.2	Total	1,867
5.3e(1)	Female	467
5.3e(2)	Male	1,399
5.3a(1)	Female engineers	177
5.3a(2)	Male engineers	894
5.3a(3)	All engineers	1,070
5.3b(1)	Female scientists	84

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Question	Survey item	Aggregate amount
5.3b(2)	Male scientists	146
5.3b(3)	All scientists	231
5.3c(1)	Female technicians	91
5.3c(2)	Male technicians	228
5.3c(3)	All technicians	320
5.3d(1)	Female support staff	119
5.3d(2)	Male support staff	126
5.3d(3)	All support staff	245
	R&D scientists and engineers	
5.4a	PhD degree holders	167
5.4b	Other higher education degree holders	956
5.4c	All other scientists and engineers	178
5.5	Domestic	18,515
	R&D employees	
5.6	Total	1,425
5.7e(1)	Female	356
5.7e(2)	Male	1,069
5.7a(1)	Female engineers	128
5.7a(2)	Male engineers	672
5.7a(3)	All engineers	799
5.7b(1)	Female scientists	68
5.7b(2)	Male scientists	120
5.7b(3)	All scientists	188
5.7c(1)	Female technicians	67
5.7c(2)	Male technicians	177
5.7c(3)	All technicians	244
5.7d(1)	Female support staff	93
5.7d(2)	Male support staff	101
5.7d(3)	All support staff	194
	R&D scientists and engineers	
5.8a	PhD degree holders	138
5.8b	Other higher education degree holders	719
5.8c	All other scientists and engineers	131

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, 2008.