

TABLE 1. Business R&D and Innovation Survey aggregate estimates, by questionnaire reference: 2014

Question	Survey item	Aggregate amount
Company and financial information (US\$millions)		
1.8	Worldwide net sales and operating revenues	13,367,485
1.9	Net sales and operating revenues from domestic operations	9,754,470
	R&D paid for by the company and performed by the company and others	
2.1	Worldwide R&D paid for by the company (expense), total	428,709
2.3	Worldwide R&D paid for by the company (expense), adjustments	29,389
2.4	Worldwide R&D paid for by the company and performed by the company and others	399,321
2.7a	Domestic R&D paid for by the company and performed by the company and others	319,589
2.7b	Foreign R&D paid for by the company and performed by the company and others	79,732
	Domestic R&D paid for by the company and performed by the company and others	
2.10a(1)	Salaries, wages, and fringe benefits	162,704
2.10b(1)	Stock-based compensation	16,247
2.10c(1)	Temporary staffing	12,257
2.10d(1)	Expensed equipment	5,308
2.10e(1)	Materials and supplies	20,619
2.10f(1)	Leased facilities and equipment rental payments	5,170
2.10g(1)	Depreciation and amortization of R&D property and equipment	10,923
2.10h(1)	Payments to business partners for collaborative R&D	6,293
2.10i(1)	Purchased R&D services	30,726
2.10j(1)	All other purchased services except R&D	5,804
2.10k(1)	All other costs	43,538
2.11(3)	Worldwide R&D paid for by the company and performed by others	47,395
2.11(1)	Domestic R&D paid for by the company and performed by others	37,019
2.11(2)	Foreign R&D paid for by the company and performed by others	10,376
2.12(3)	Worldwide R&D paid for and performed by the company	351,926
2.12(1)	Domestic R&D paid for and performed by the company	282,570
2.12(2)	Foreign R&D paid for and performed by the company	69,356
2.11(1) + 2.12(1) + 3.8(1) + 3.9(1)	Domestic R&D paid for by the company and others and performed by the company and others	386,703
2.12(1) + 3.9(1)	Domestic R&D paid for by the company and others and performed by the company	340,728
	Domestic R&D paid for and performed by the company	
2.18	Performed at largest domestic location	155,229
2.20	Performed at second-largest domestic location	26,251
2.22	Domestic R&D paid for by foreign operations or subsidiaries and performed by the company	5,298
2.23	Domestic R&D paid for by foreign operations or subsidiaries and performed by the company	10,650
	Domestic R&D paid for by the company and performed by others	
2.25a	Companies in the United States	29,080
2.25b	Your company's foreign parent/owner	675
2.25c	Companies outside the United States	4,021
2.25d	U.S. federal government agencies or laboratories	77 i
2.25e	U.S. state and local government agencies or laboratories	8
2.25f	Foreign government agencies or laboratories	1
2.25g	All other organizations in the United States	463
2.25h	All other organizations outside the United States	98
2.25	Undistributed (BRDI-1(S))	2,597 i
2.27	Monetary gifts made by the company to U.S. universities and colleges	701
2.28	Indirect R&D charges to be recouped from the U.S. federal government (IR&D or independent R&D)	4,123
	Projected worldwide R&D expense for 2014	
2.29(3)	Worldwide R&D to be paid for and performed by the company	424,439
2.29(1)	Domestic R&D to be paid for and performed by the company	344,818
2.29(2)	Foreign R&D to be paid for and performed by the company	79,621
2.30	Projected R&D services and projected payments for collaborative R&D	31,644
2.31	Total domestic capital expenditures	638,268
2.32	Domestic capital expenditures for R&D	27,775
2.33a	Structures	2,599
2.33b	Equipment	11,564
2.33c	Capitalized software	6,094
2.33d	All other expenditures	3,036
2.33	Undistributed (BRDI-1(S))	4,481 i

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Question	Survey item	Aggregate amount
	R&D paid for by others and performed by the company and others	
3.1a	R&D reimbursed by the company's foreign parent/owner	16,596
3.1b	Collaborative R&D reimbursed by business partners	8,757
3.1c	R&D paid for by government or private foundation grants	7,115
3.1d	Defense RDT&E goods or services provided to the federal government or government contractors	20,149 i
3.1e	Medical nonclinical R&D services provided to others not owned by the company	3,101
3.1f	Medical clinical trial Phase I–III services provided to others not owned by the company	8,623
3.1g	Nondefense custom software development/computer systems designed for others not owned by the company	593
3.1h	Prototype premarket development, production, and testing for customer's products	2,318
3.1i	All other R&D services not included in 3.1a–3.1h provided to the federal government or to others not owned by the company	6,972 i
3.1j	Worldwide R&D paid for by others and performed by the company and others	74,224
3.4a	Domestic R&D paid for by others and performed by the company and others	67,114
3.4b	Foreign R&D paid for by others and performed by the company and others	7,110
	Domestic R&D paid for by others and performed by the company and others	
3.7a(1)	Salaries, wages, and fringe benefits	32,827
3.7b(1)	Stock-based compensation	371
3.7c(1)	Temporary staffing	1,954
3.7d(1)	Expensed equipment	507 i
3.7e(1)	Materials and supplies	6,709
3.7f(1)	Leased facilities and equipment rental payments	879
3.7g(1)	Depreciation and amortization of R&D property and equipment	1,183
3.7h(1)	Payments to business partners for collaborative R&D	1,701
3.7i(1)	Purchased R&D services	7,255
3.7j(1)	All other purchased services except R&D	2,087 i
3.7k(1)	All other costs	11,640
3.8(3)	Worldwide R&D paid for and performed by others	10,111
3.8(1)	Domestic R&D paid for and performed by others	8,956
3.8(2)	Foreign R&D paid for and performed by others	1,156
3.9(3)	Worldwide R&D paid for by others and performed by the company	64,113
3.9(1)	Domestic R&D paid for by others and performed by the company	58,158
3.9(2)	Foreign R&D paid for by others and performed by the company	5,955
	Domestic R&D paid for by others and performed by the company	
3.14a	Companies in the United States	13,227
3.14b	Your company's foreign parent/owner	13,407
3.14c	Companies outside the United States	3,839
3.14d	U.S. federal government agencies or laboratories	26,554 i
3.14e	U.S. state and local government agencies or laboratories	138
3.14f	Foreign government agencies or laboratories	415 i
3.14g	All other organizations in the United States	523
3.14h	All other organizations outside the United States	55
	Federally funded R&D performed by the company	
3.18a	Department of Defense	19,265 i
3.18b	Department of Energy	1,219 i
3.18c	National Aeronautics and Space Administration	4,496 i
3.18d	National Institutes of Health	770
3.18e	Department of Homeland Security	83
3.18f	Department of Transportation	24
3.18g	Environmental Protection Agency	9
3.18h	National Science Foundation	14
3.18i	Other U.S. federal agencies	674
	Federally funded R&D performed by the company, by type of agreement	
3.19a	Contracts	25,571 i
3.19b	Grants and all other agreements	984
	Domestic R&D paid for by others and performed by the company	
3.23	Performed at largest domestic location	28,076
3.25	Performed at second-largest domestic location	5,337
	Projected R&D to be paid for by others and performed by the company in 2014	
3.26	Worldwide to be paid for by others and performed by the company	63,796
3.27	Domestic R&D to be paid for by others and performed by the company	53,534
3.28	Domestic R&D to be paid for by U.S. federal government and performed by the company	23,091 i

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	Domestic R&D paid for and performed by the company	
	Character of work	
4.6b	Basic research	16,107
4.6a	Applied research	39,012
4.5b	Development	227,451
	Application areas	
4.7	Energy applications	20,041
4.8	Environmental protection applications	8,302
4.9	Defense applications	11,903
4.10	Health or medical applications	66,672
4.11	Agricultural applications	5,981 i
	Technology focus areas	
4.12	Software products and software embedded in other projects or products	94,826
4.13	Optics and photonics	6,709 i
4.14	Products enabled by optics and photonics	3,846 i
4.15	Biotechnology	32,938
4.16	Nanotechnology	16,564 i
	Domestic R&D paid for by others and performed by the company	
	Character of work	
4.20b	Basic research	5,829
4.20a	Applied research	14,403
4.19b	Development	37,927 i
	Application areas	
4.21	Energy applications	2,984
4.22	Environmental protection applications	2,275 i
4.23	Defense applications	22,677 i
4.24	Health or medical applications	17,546
4.25	Agricultural applications	459
	Technology focus areas	
4.26	Software products and software embedded in other projects or products	10,160 i
4.27	Optics and photonics	1,247
4.28	Products enabled by optics and photonics	572 i
4.29	Biotechnology	5,627
4.30	Nanotechnology	1,075
	Federally funded R&D performed by the company	
	Character of work	
4.34b	Basic research	2,044 i
4.34a	Applied research	6,445 i
4.33b	Development	18,065 i
	Technology focus areas	
4.35	Software products and software embedded in other projects or products	4,719 i
Employees (thousands)		
	Worldwide	
5.1	Total employees	31,881
5.3b(3)	Non-R&D employees	29,714
5.3a(3)	R&D employees	2,167
5.5a(3)	Female	560
5.5b(3)	Male	1,607
5.6a(3)	Scientists and engineers	1,535
5.6b(3)	Technicians	410
5.6c(3)	Support staff	222
	Domestic	
5.2(1)	Total employees	21,540
5.3b(1)	Non-R&D employees	20,026
5.3a(1)	R&D employees	1,514
5.5a(1)	Female	376
5.5b(1)	Male	1,138
5.6a(1)	Scientists and engineers	1,060
5.6b(1)	Technicians	295
5.6c(1)	Support staff	158
	Foreign	
5.2(2)	Total employees	10,341

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Question	Survey item	Aggregate amount
5.3b(2)	Non-R&D employees	9,688
5.3a(2)	R&D employees	653
5.5a(2)	Female	184
5.5b(2)	Male	470
5.6a(2)	Scientists and engineers	475
5.6b(2)	Technicians	114
5.6c(2)	Support staff	64
	R&D scientists and engineers with PhD	
5.7(3)	Worldwide	141
5.7(1)	Domestic	113
5.7(2)	Foreign	28
	Full-time equivalent	
5.8d	R&D employees	1,366
5.8a	Full-time R&D employees	1,197
5.8b	Full-time employees not solely working on R&D	152
5.8c	Part-time employees working on R&D	16
5.9d	R&D scientists and engineers	960
5.9a	Full-time R&D employees	864
5.9b	Full-time employees not solely working on R&D	88 i
5.9c	Part-time employees working on R&D	8 i
5.10	Non-U.S. citizens employed as scientists and engineers under temporary visa	30
U.S. patents		
(number) ^a		
6.1	Applied for	125,892
6.2	Applications, foreign	60,352
6.3	Applications originated from organized R&D activities	103,542
6.4	Issued	98,237
U.S. patents		
(US\$millions) ^a		
	Revenue received from others	
6.6	From sale of patents	3,422
6.7	From licensing patents	25,489
	Amount paid to others	
6.8	To purchase patents	13,033
6.9	To license patents	25,131

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

IR&D = independent research and development; RDT&E = research, development, test, and evaluation.

^a These statistics do not include an adjustment to the weight to account for unit nonresponse.

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, 2014.