

TABLE 99. Domestic R&D paid for and performed by the company, by type of cost, industry, and company size: 2010  
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Salaries, wages, and fringe benefits	Stock-based compensation	Temporary staffing	Expensed equipment	Materials and supplies	Lease and rental payments	Depreciation	Other purchased services (except R&D)	Other <sup>a</sup>
All industries	21-23, 31-33, 42-81	221,706	132,752	7,831	8,793	2,492	14,021	2,821	9,746	3,072	40,177
Manufacturing industries	31-33	159,579	89,749	4,485	5,446	1,716	12,670	1,788	7,451	2,512	33,762
Food	311	3,659	2,730 i	60	72	4	175	15	108	33	463
Beverage and tobacco products	312	717	407	* i	5	2 i	63	13	36	27	163
Textiles, apparel, and leather products	313-316	478	309	4	10	4 i	25 i	7	21	5	93
Wood products	321	229	143	* i	10	2	55	3	3	1	12
Paper	322	1,247	851	D	31	12	102	5	52	19	D
Printing and related support activities	323	201	162	* i	3	1 i	9 i	2 i	12 i	* i	11 i
Petroleum and coal products	324	1,104	548	0	30	1	47	17	28	117	315
Chemicals	325	53,555	27,239	1,219	2,356	202	4,010	906	3,114	1,017	13,492
Basic chemicals	3251	1,718	1,016	12	48	11 i	143	36	100	26	326 i
Resin, synthetic rubber, fibers, and filaments	3252	807	493	D	24	2	40	16	43	7	D
Pesticide, fertilizer, and other agricultural chemical	3253	760 i	259	* i	7	*	10	D	74	D	D
Pharmaceuticals and medicines	3254	45,398	22,525	1,128	2,148	163	3,524	783	2,644	882	11,601
Soap, cleaning compound, and toilet preparation	3256	2,383	1,426	15	44	1	136	19	106	26	611
Paint, coating, adhesive, and other chemical	3255, 3259	2,491	1,520	D	86	25	157	D	147	D	D
Plastics and rubber products	326	1,809	1,105	19	37	11	179	21	60	24 i	353 i
Nonmetallic mineral products	327	1,246 i	748 i	5 i	114 i	48	103 i	7 i	65 i	48 i	107 i
Primary metals	331	579	332	6	14	* i	97	2	23	5	99 i
Fabricated metal products	332	1,464	1,066	5 i	24	16 i	107 i	10 i	39 i	9 i	188 i
Machinery	333	9,384	5,334	93	472	93 i	829	85	394	167	1,917
Agricultural implement	33311	1,172	667	*	73	6	151	3	32	1	240
Semiconductor machinery	333295	1,999	817	80	46	13 i	245	22	169	76	532
Engine, turbine, and power transmission equipment	3336	1,231	794	2 i	92	52 i	101 i	16 i	58 i	57 i	58 i
Other machinery	other 333	4,981	3,056	11 i	262	23 i	331 i	44 i	136	33 i	1,086
Computer and electronic products	334	51,223	30,764	2,785	1,088	850	3,697	481	2,513	630	8,416
Communications equipment	3342	11,663	6,790	700	197	199	706	46	655	347	2,022
Semiconductor and other electronic components	3344	21,318	12,220	1,496	400	175	1,525	301	1,209	115	3,877
Navigational, measuring, electromedical, and control instruments	3345	9,729	6,029	127	351	75	917	94	339	83	1,715
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	3,800	2,232	73	181	19	257	52	207	18	762
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	2,787	1,805	D	91	11	356	9	51	30	D
Other measuring and controlling instruments	other 3345	3,141	1,992	D	79	45	303 i	33 i	80	35 i	D
Other computer and electronic products	other 334	8,514	5,725	462	140	402	549	40	310	84	802
Electrical equipment, appliances, and components	335	3,141	2,304	D	118	26	181	30	82	46	D
Transportation equipment	336	21,076	10,604	25 i	775	339	2,450	85	601	209	5,987
Automobiles, bodies, trailers, and parts	3361-3363	10,098	5,827	11	608	196	1,273	39	380	64	1,698
Aerospace products and parts	3364	10,152	4,282	13 i	144	140	1,061	42	193	135	4,143
Aircraft, aircraft engine, and aircraft parts	336411-336413	9,353	3,787	13 i	137	137	958	41	189	125	3,966

TABLE 99. Domestic R&amp;D paid for and performed by the company, by type of cost, industry, and company size: 2010

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Salaries, wages, and fringe benefits	Stock-based compensation	Temporary staffing	Expensed equipment	Materials and supplies	Lease and rental payments	Depreciation	Other purchased services (except R&D)	Other <sup>a</sup>
	336414, 336415,										
Guided missile, space vehicle, and related parts	336419	800	495	0	7	3	103	1	4	10	177
Military armored vehicle, tank, and tank components	336992	26	16	*	D	1	D	*	1	1	D
Other transportation	other 336	800 i	479 i	* i	D	2	D	3	27	9	D
Furniture and related products	337	370	262	* i	6	6 i	50 i	2 i	5 i	2 i	38 i
Miscellaneous	339	8,097	4,841	227	278	99	491	97 i	295	152	1,616
Medical equipment and supplies	3391	D	3,620	192	243	80	439	79 i	250	142	D
Other miscellaneous	3399	D	1,222	35	35	19	52	19	46	10	D
Nonmanufacturing industries	21-23, 42-81	62,127	43,003	3,346	3,346	776	1,352	1,033	2,295	560	6,415
Mining, extraction, and support activities	21	2,254	1,179	19	229	143	152	44	46	17	424
Utilities	22	371	171	2 i	35	5 i	63 i	1 i	48 i	2 i	43 i
Construction	23	704	417	25 i	73	1 i	42 i	* i	40 i	* i	106 i
Wholesale trade	42	1,040	762	2 i	48	5 i	108 i	8 i	17 i	7 i	82 i
Retail trade	44, 45	D	468	D	92	D	14 i	19	40	D	D
Electronic shopping and electronic auctions	454111, 454112	D	346	D	D	D	*	D	D	D	D
Other retail trade	other 44, 45	D	122	D	D	D	14 i	D	D	D	D
Transportation and warehousing	48, 49	88	68	0	10	1 i	6	1	* i	0	2 i
Information	51	36,085	24,305	2,581	1,693	423	367	559	1,357	210	4,589
Publishing	511	26,387	18,014	1,487	1,189	144	322	365	834	169	3,864
Newspaper, periodical, book, and directory publishers	5111	791	662	* i	88	1	2	* i	* i	*	37
Software publishers	5112	25,596	17,352	1,486	1,101	143	320	365	834	169	3,826
Telecommunications	517	1,755	1,147	16	112 i	89 i	8	5	16	1	360
Data processing, hosting, and related services	518	2,491	1,975	D	97 i	18	8 i	27	94 i	6	D
Other information	other 51	5,452	3,168	D	295	172	29	161	414	34	D
Finance and insurance	52	2,109	1,245	84	424	35	13	25	68	10	206
Real estate and rental and leasing	53	327	164	22	14	*	7	4	18	* i	98
Professional, scientific, and technical services	54	15,438	11,897	518 i	D	148 i	497 i	361 i	567 i	221 i	D
Architectural, engineering, and related services	5413	1,381	956	18 i	33	18 i	80 i	36 i	43 i	17 i	179 i
Computer systems design and related services	5415	9,416	8,073	382 i	D	103 i	127 i	207 i	335 i	126 i	D
Scientific R&D services	5417	2,851	1,524	89	148	22	216	104	120	53	575 i
Biotechnology R&D	541711	1,720	851	82	74	11	161	78	80	32	350 i
Physical, engineering, and life sciences (except biotechnology) R&D	541712	1,116	662	6 i	73	11	54	26	39	21	224
Social sciences and humanities R&D	541720	15	11	* i	1 i	* i	* i	* i	* i	* i	1 i
Other professional, scientific, and technical services	other 54	1,790	1,344	30	50	5	73 i	13 i	69 i	25	180
Health care services	621-623	1,126	825	14 i	99 i	1 i	27 i	1 i	67 i	38 i	52 i
Other nonmanufacturing	55, 56, 624, 71, 72, 81	D	1,501 i	D	62	D	56 i	9 i	25 i	D	D
All companies (number of employees)	-	221,706	132,752	7,831	8,793	2,492	14,021	2,821	9,746	3,072	40,177
Small companies (number of employees) <sup>b</sup>											
5-499	-	40,822	27,961	963	1,793	322 i	2,178 i	645	1,291 i	448 i	5,221 i
5-99	-	22,974	16,308	384 i	1,147	156 i	962 i	313 i	669 i	239 i	2,796 i

TABLE 99. Domestic R&D paid for and performed by the company, by type of cost, industry, and company size: 2010  
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Salaries, wages, and fringe benefits	Stock-based compensation	Temporary staffing	Expensed equipment	Materials and supplies	Lease and rental payments	Depreciation	Other purchased services (except R&D)	Other <sup>a</sup>
5-49	-	16,574	11,926	232 i	905	108 i	620 i	199 i	425 i	164 i	1,995 i
5-9	-	2,907	2,145	35 i	228 i	17 i	93 i	28 i	118 i	34 i	209 i
10-24	-	6,720	4,917	85 i	260	33 i	178 i	65 i	109 i	45 i	1,028 i
25-49	-	6,947	4,864	112 i	416	58 i	350 i	105 i	198 i	85 i	758 i
50-99	-	6,400	4,382	153 i	242	48 i	342 i	114	244 i	74 i	800 i
100-249	-	9,435	6,303	274	371	82	642	181	301	81 i	1,200
250-499	-	8,413	5,351	305	275	85	573	151	321	128	1,225
Medium and large companies (number of employees)											
500-999	-	8,640	4,975	361	294	126	670	111	369	234	1,500
1,000-4,999	-	39,468	23,189	1,508	1,282	381	2,519	529	1,636	612	7,811
5,000-9,999	-	21,940	11,966	750	764	265	1,413	334	1,245	389	4,814
10,000-24,999	-	36,688	21,767	1,775	1,040	492	2,190	674	1,926	660	6,165
25,000 or more	-	74,148	42,894	2,475	3,620	907	5,050	527	3,279	730	14,667

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

NAICS = 2007 North American Industry Classification System.

<sup>a</sup> Includes data for costs allocated to subsidiaries by parent companies.

<sup>b</sup> Upper bound based on U.S. Small Business Administration's definition of small business; Business R&D and Innovation Survey (BRDIS) does not include companies with fewer than five domestic employees.

NOTES: Detail may not add to total because of rounding. Industry classification based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, classification used for sampling was assigned. 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.