

TABLE 6. Domestic R&D paid for and performed by the company, by type of cost, industry, and company size: 2008
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Salaries and wages	Fringe benefits	Stock-based compensation	Temporary staffing	Expensed equipment	Materials and supplies	Lease and rental payments	Depreciation	Other
All industries	21-23, 31-33, 42-81	232,505	112,527	24,051	7,447	5,890	2,184	15,610	2,381	10,465	51,951
Manufacturing industries	31-33	164,386	73,177	18,219	4,198	3,179	1,403	13,522	1,666	7,855	41,167
Food	311	2,063	960	294	13	32	3	118	17	100	526
Beverage and tobacco products	312	777	310	101	D	18	3	86	4	37	D
Textiles, apparel, and leather products	313-316	802	428	61	*	20 i	4	44	18 i	34	194 i
Wood products	321	270	146	27	0	16 i	4 i	41 i	6 i	4 i	26 i
Paper	322	1,156	634	154	D	26	10	77	4	56	D
Printing and related support activities	323	312	160	28	0	7 i	2 i	31 i	11 i	11 i	61 i
Petroleum and coal products	324	D	436	108	0	D	2	74	12	23	551
Chemicals	325	55,042	20,609	6,934	1,354	846	292	4,058	653	2,815	17,482
Basic chemicals	3251	4,012	1,998	530	35 i	146 i	25 i	356 i	56 i	228 i	639 i
Resin, synthetic rubber, fibers, and filaments	3252	726	328	86	0	7	2	27	4	32	241
Pesticide, fertilizer, and other agricultural chemical	3253	941	372	129	3	3	1	77	19	218	119
Pharmaceuticals and medicines	3254	45,169	15,817	5,609	1,290	599	237	3,318	538	2,158	15,603
Soap, cleaning compound, and toilet preparation	3256	2,099	997	330	14	43	1	161	17	99	436
Paint, coating, adhesive, and other chemical	3255, 3259	2,095	1,097	250	11	48	27	119	19	81	444
Plastics and rubber products	326	1,713	909	187	14	20	15	199	8	44	317
Nonmetallic mineral products	327	1,509	747 i	203 i	3 i	167 i	25 i	91 i	10	64 i	199 i
Primary metals	331	654	262	55	*	4	1	165	2	18	147
Fabricated metal products	332	2,362	1,497	256	8 i	47 i	10 i	225 i	17 i	64 i	238 i
Machinery	333	9,846	4,429	1,142	125	205	71	982	58	384	2,450
Agricultural implement	33311	1,181	488	141	0	4	3	233	2	14	296
Semiconductor machinery	333295	2,113	691	205	109	29	14	228	10	193	634
Engine, turbine, and power transmission equipment	3336	1,280	598	114	1	84	20	127	18	45	273
Other machinery	other 333	5,272	2,652	681	15	88	34	394	28	132	1,247
Computer and electronic products	334	52,912	26,352	5,023	2,420	857	687	3,603	540	2,918	10,512
Communications equipment	3342	11,484	5,844	733	147	97	199	692	48	670	3,054
Semiconductor and other electronic components	3344	21,588	10,426	1,954	1,440	401	182	1,506	280	1,457	3,941
Navigational, measuring, electromedical, and control instruments	3345	10,463	4,987	1,317	185	194	58	860	91	275	2,496
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	4,896	2,249	439	103	87	30	407	24	111	1,446 i
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	2,803	1,307	534	28	47	9	199	46	85	548
Other measuring and controlling instruments	other 3345	2,764	1,431	344	54	61	18	254	22	79	502
Computer and peripheral equipment and other computer and electronic products	3341, 3343, 3346	9,377	5,095	1,019	647	165	249	546	120	516	1,020
Electrical equipment, appliances, and components	335	2,947	1,657	360	34	86	48	223	47	88	404

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Transportation equipment	336	23,039	9,746	2,487	9	654	130	2,985	195	918	5,916
Automobiles, bodies, trailers, and parts	3361-3363	12,234	5,901	1,231	2 i	447	87	1,761	161	763	1,881
Aerospace products and parts	3364	10,371	3,616	1,189	5	184	30	1,172	32	134	4,008
Aircraft, aircraft engine, and aircraft parts	336411-336413	9,698	3,290	1,041	5	178	27	1,048	30	128	3,951
Guided missile, space vehicle, and related parts	336414, 336415, 336419	673	326	148	0	7	3	124	2	7	58
Military armored vehicle, tank, and tank components	336992	25	7	2	0	1	9	3	*	1	2
Other transportation	other 336	409	223	65	1	21	4	48	2	20	25
Furniture and related products	337	477	281	54	*	1 i	10 i	51 i	2 i	5 i	72 i
Miscellaneous manufacturing	339	D	3,614	746	184	D	85	470	63	271	1,692
Medical equipment and supplies	3391	5,179	2,421	510	163	87	68	371	43	230	1,285
Other miscellaneous manufacturing	3399	D	1,192	236	21	D	17	99	20	41	407
Nonmanufacturing industries	21-23, 42-81	68,118	39,350	5,831	3,249	2,711	781	2,088	715	2,610	10,784
Mining, extraction, and support activities	21	1,478	566	150	11	61	64	103	47	65	411
Utilities	22	190	79	17	1	16	1	19	1	17	39
Construction	23	D	592	262 i	1 i	32 i	7 i	274 i	7 i	16 i	D
Wholesale trade	42	1,944	1,138 i	219 i	19 i	17 i	25 i	36 i	26 i	83 i	380 i
Retail trade	44, 45	1,029	556 i	105	95	103	24	*	22	73	51
Electronic shopping and mail-order houses	4541	674	260	D	D	D	22	0	20	D	D
Other retail trade	other 44, 45	354	296 i	D	D	D	2 i	*	2 i	D	D
Transportation and warehousing	48, 49	134	97	14	0	0	1 i	10 i	1 i	3	8 i
Information	51	36,922	21,596	2,674	2,408	1,776	363	340	224	1,459	6,082
Publishing	511	27,871	16,193	2,179	1,559	1,182	183	276	190	810	5,299
Newspaper, periodical, book, and directory publishers	5111	205	101	21	1	16	*	4	*	10	52
Software publishers	5112	27,665	16,092	2,158	1,558	1,166	183	272	190	800	5,247
Telecommunications	517	1,601	923	62	8	80 i	59 i	20	15	203	231
Internet service providers, Web search portals, and data processing services	518	6,493	3,771	344	D	507	112	39	18	395	D
Other information	other 51	958	709	89	D	6	9	5	1	51	D
Finance and insurance	52	1,084	623	108	32	192	22 i	6	31	14	56
Real estate and rental and leasing	53	246	173	19	*	5	1	1	*	4	43
Professional, scientific, and technical services	54	20,539	11,444	2,055	638	444 i	269	1,229	345	845	3,269
Architectural, engineering, and related services	5413	1,378	810	193	12 i	35 i	17 i	70 i	5 i	35 i	201 i
Computer systems design and related services	5415	8,569	5,257	842	189 i	173 i	117 i	470 i	124 i	369 i	1,027 i
Scientific R&D services	5417	8,708	4,210	802	350	132	129	611	197	418	1,860
Other professional, scientific, and technical services	other 54	1,884	1,168	219	87 i	103 i	6 i	77 i	19 i	24 i	182 i
Health care services	621-623	1,032	629	106	41 i	20 i	3 i	60 i	6 i	23 i	143 i
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	D	1,857 i	103	2	45 i	2	10	5	6	D

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All companies	21-23, 31-33, 42-81	232,505	112,527	24,051	7,447	5,890	2,185	15,611	2,381	10,466	51,947
Small companies (number of employees) ^a											
5-499	-	46,396	28,098	4,397	1,209 i	940 i	396 i	2,693 i	586	1,481 i	6,596 i
5-99	-	24,890	15,755	2,399	505 i	472 i	177 i	1,392 i	266 i	676 i	3,247 i
5-49	-	17,642	11,465	1,705	332 i	324 i	113 i	967 i	168 i	429 i	2,138 i
5-24	-	10,333	6,993	1,073 i	142 i	187 i	53 i	585 i	67 i	182 i	1,050 i
25-49	-	7,309	4,472	632	190	137 i	60 i	382 i	101 i	247 i	1,088 i
50-99	-	7,248	4,290	694	173 i	148 i	64 i	425 i	98	247 i	1,109 i
100-249	-	12,933	7,762	1,081	376	272 i	123	784	200	448 i	1,888 i
250-499	-	8,572	4,581	917	327	197	96	517	120	357	1,461
Medium and large companies (number of employees)											
500-999	-	9,673	4,699	920	366	227	99	802	131	454	1,976
1,000-4,999	-	39,010	18,344	3,970	1,624	935	419	2,713	531	1,780	8,694
5,000-9,999	-	20,358	9,463	2,212	1,272 i	605	285	1,149	166	1,094	4,110
10,000-24,999	-	43,049	19,835	5,786	1,536	960	340	3,151	391	2,153	8,897
25,000 or more	-	74,020	32,088	6,765	1,440	2,223	647	5,102	576	3,505	21,674

* = 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 = 2002 North American Industry Classification System.

^a 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. After 2008 BRDIS sample was selected and surveyed, an error was identified that resulted in excluding 226,884 single-establishment companies with five paid employees from sample frame. Most excluded establishments were classified in industries with low R&D intensities, such as construction, retail trade, and service sectors. Based on available information for these small single-establishment companies, their contribution to 2008 R&D estimates is estimated to be negligible.

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, 2008.