

TABLE 73. Capital expenditures for domestic R&D paid for by the company and others and performed by the company, by type, industry, and company size: 2009
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Structures	Equipment	Capitalized software	All other	Undistributed ^a
All industries	21-23, 31-33, 42-81	28,335	2,385	11,896	3,878	1,735	8,441
Manufacturing industries	31-33	13,028	1,715	6,059	1,262	974	3,017
Food	311	354	30	101	5	D	D
Beverage and tobacco products	312	70	2	8	*	*	60
Textiles, apparel, and leather products	313-316	40	2 i	9 i	* i	1 i	28
Wood products	321	29 i	0	7	0	0	23
Paper	322	50	2	D	1	1	D
Printing and related support activities	323	34	0	2	*	*	31
Petroleum and coal products	324	107	1	D	*	D	D
Chemicals	325	3,213	973	1,486	200	127	428
Basic chemicals	3251	148	D	79	1	D	D
Resin, synthetic rubber, fibers, and filaments	3252	67	8	39	2	3	15
Pesticide, fertilizer, and other agricultural chemical	3253	115	D	8	2	44	D
Pharmaceuticals and medicines	3254	2,561	885	1,247	190	61	178
Soap, cleaning compound, and toilet preparation	3256	112	7	73	4	7	21
Paint, coating, adhesive, and other chemical	3255, 3259	212	8	40	*	1	163
Plastics and rubber products	326	232	17	92	2	3	118
Nonmetallic mineral products	327	138	2	22 i	* i	*	114
Primary metals	331	58	2	21	*	*	35
Fabricated metal products	332	164	6	23	6	4	125
Machinery	333	1,355	63	424	45	40	783
Agricultural implements	33311	40	10	10	3	4	14
Semiconductor machinery	333295	94	6	75	3	5	4
Engine, turbine, and power transmission equipment	3336	546	D	32	1	1	D
Other machinery	other 333	675	D	307 i	39 i	30	D
Computer and electronic products	334	3,944	182 i	2,513	660 i	318	272
Communications equipment	3342	834	3	604	153 i	28	46
Semiconductor and other electronic components	3344	1,979 i	125 i	1,163 i	364 i	207 i	119
Navigational, measuring, electromedical, and control instruments	3345	481	25	232	126	40	57
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	184	4	58	72	34	15
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	156	4	121	20	3	8
Other measuring and controlling instruments	other 3345	141	17	52	34	3	34
Computer and peripheral equipment and other computer and electronic products	other 334	650	28	514	16	42	50
Electrical equipment, appliances, and components	335	400	12	103	6	57	222
Transportation equipment	336	1,658	276	734	256	234	159
Automobiles, bodies, trailers, and parts	3361-3363	681	D	278	D	D i	D
Aerospace products and parts	3364	663	56	308	91	171	36
Aircraft, aircraft engine, and aircraft parts	336411-336413	556	47	223	91	D	D
Guided missile, space vehicle, and related parts	336414, 336415, 336419	106	9	85	1	D	D
Military armored vehicle, tank, and tank components	336992	4	1	1	D	*	D
Other transportation equipment	other 336	311	D i	147 i	D i	D i	D
Furniture and related products	337	42	2 i	10	0	3	28

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Miscellaneous manufacturing	339	1,140	144	454	82	129	331
Medical equipment and supplies	3391	911	139	416	69	118	169
Other miscellaneous manufacturing	3399	228	6	37	13	12	161
Nonmanufacturing industries	21-23, 42-81	15,308	669	5,837	2,616	761	5,424
Mining, extraction, and support activities	21	111	D i	36	14	15	D
Utilities	22	89	2	18	*	35	34
Construction	23	10	D	1	*	4	D
Wholesale trade	42	73 i	1 i	4 i	* i	5 i	63
Retail trade	44, 45	1,194 i	0	* i	1 i	0	1,193
Electronic shopping and mail-order houses	4541	16	0	* i	1 i	0	15
Other retail trade	other 44, 45	1,178 i	0	*	0	0	1,178
Transportation and warehousing	48, 49	102	2 i	27	52	2	19
Information	51	5,366	396	948	1,589	137	2,296
Publishing	511	2,386	319	712	648	117	590
Newspaper, periodical, book, and directory publishers	5111	114	0	99	5	1	9
Software publishers	5112	2,272	319	613	643	117	581
Telecommunications	517	786	1	13	D	2	D
Data processing, hosting, and related services	518	1,590 i	3	31	199	1	1,356
Other information	other 51	604	74	192	D	16	D
Finance and insurance	52	454	1	25	160	*	266
Real estate and rental and leasing	53	68 i	0	2	0	0	66
Professional, scientific, and technical services	54	7,603	232	4,763	790	546	1,271
Architectural, engineering, and related services	5413	156	2	13	3	5	134
Computer systems design and related services	5415	1,277	80	190	303	199	504
Scientific R&D services	5417	5,952	150	4,553	483	342	424
Biotechnology R&D	541711	5,401	133	4,486	D	D	D
Physical, engineering, and life sciences (except biotechnology) R&D	541712	537	18	65	D	D	D
Social sciences and humanities R&D	541720	14	0	2	*	0	12
Other professional, scientific, and technical services	other 54	218 i	* i	7 i	1 i	* i	210
Health care services	621-623	30	2	7	*	*	21
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	209	D i	5	9	15	D
All companies	-	28,335	2,385	11,896	3,878	1,735	8,441
Small companies (number of domestic employees) ^b							
5-499	-	11,466	218	4,656	559	63	5,970
5-99	-	4,224	19	77	17	17	4,094
5-49	-	3,399	8	30	3	11	3,346
5-24	-	1,445	1 i	6 i	* i	* i	1,438
25-49	-	1,954 i	7	24	3	11	1,908
50-99	-	825	11	47	14	6	748
100-249	-	5,626	171	4,254	483	30	688
250-499	-	1,617	28	325	59	16	1,189
Medium and large companies (number of domestic employees)							
500-999	-	1,066	84	296	87	150	449

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1,000–4,999	–	3,661	611	1,649	473	591	337
5,000–9,999	–	2,171	200	1,208	481	113	170
10,000–24,999	–	2,803	519	1,303	514	277	190
25,000 or more	–	7,169	753	2,784	1,764	542	1,325

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

NAICS = 2007 North American Industry Classification System.

^a Detailed data for capital expenditures for domestic R&D detailed data were not collected on Form BRDI-1A (the questionnaire sent to smaller firms). Form BRDI-1A total capital expenditure data are included in undistributed column.

^b 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 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, 2009.