

TABLE 43. Capital expenditures, total in the United States and for domestic R&D by type of expenditure, by industry and company size: 2012
(Millions of U.S. dollars)

Industry and company size	NAICS code	Domestic R&D						
		Total	Total	Structures	Equipment	Capitalized software	All other	Undistributed
All industries	21-23, 31-33, 42-81	459,868	26,058	1,700	6,733	3,641	2,082	11,901 i
Manufacturing industries	31-33	210,730	13,428	1,153	4,829	942	1,653	4,852 i
Food	311	18,101	361 i	39	123	2	29	168 i
Beverage and tobacco products	312	4,877	73	15	32	*	*	25 i
Textile, apparel, and leather products	313-16	1,539 i	55 i	*	15	3	1	35 i
Wood products	321	779 i	12 i	*	1	*	*	11 i
Paper	322	3,028	61	1	34	6	0	21 i
Printing and related support activities	323	1,357 i	12 i	*	5	*	1	6 i
Petroleum and coal products	324	14,948	47	6	32	7	*	2 i
Chemicals	325	56,705	3,086	444	1,303	324	134	881 i
Basic chemicals	3251	31,738	472	23	256	44	51	97 i
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	5,455	67	11	36	5	6	9 i
Pesticide, fertilizer, and other agricultural chemical	3253	1,110	170	45	49	D	8	D
Pharmaceuticals and medicines	3254	13,766	2,165	350	835	238	57	685 i
Soap, cleaning compound, and toilet preparation	3256	3,464	167	12	100	7	10	38 i
Paint, coating, adhesive, and other chemicals	3255, 3259	1,172	46	3	26	D	2	D
Plastics and rubber products	326	9,831 i	504 i	75	108	4	62	256 i
Nonmetallic mineral products	327	3,201	70 i	2	30	*	1	36 i
Primary metals	331	5,604	75	3	35	*	8	29 i
Fabricated metal products	332	4,937 i	254 i	5	63	7	5	174 i
Machinery	333	24,501	1,752	180	721	84	302	465 i
Agricultural implement	33311	1,641	118	8	85	2	*	22 i
Semiconductor machinery	333295	448 i	264 i	28	82	13	6	135 i
Engine, turbine, and power transmission equipment	3336	14,086	699	79	288	19	277	36 i
Other machinery	other 333	8,326	670 i	64	265	51	18	272 i
Computer and electronic products	334	21,261	4,721	185	1,481	280	683	2,091 i
Communications equipment	3342	6,950	902 i	3	328	63	25	483 i
Semiconductor and other electronic components	3344	7,832	2,710	169	670	133	595	1,144 i
Navigational, measuring, electromedical, and control instruments	3345	4,453	520	12	204	58	46	199 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	960	113 i	5	25	17	10	55 i
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	1,676	183	2	121	22	8	30 i
Other measuring and controlling device	other 3345	1,817	224 i	5	58	20	28	114 i
Other computer and electronic products	other 334	2,027	588	1	279	26	17	265 i
Electrical equipment, appliances, and components	335	3,358	285 i	5	92	6	23	161 i
Transportation equipment	336	27,065	1,387	178	526	118	331	234 i
Automobiles, bodies, trailers, and parts	3361-63	19,811	1,005	101	384	100	274	146 i
Aerospace products and parts	3364	4,961	312	71	134	16	35	56 i
Aircraft, aircraft engine, and aircraft parts	336411-13	4,344	257	D	118	16	D	D

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Guided missile, space vehicle, and related parts	336414-15, 336419	618	55	D	16	*	D	D
Military armored vehicle, tank, and tank component	336992	11	1	0	1	*	*	* i
Other transportation	other 336	2,281	70 i	6	8	3	22	31 i
Furniture and related products	337	836 i	56 i	1	13	*	5	37 i
Miscellaneous	339	8,801	617	14	213	102	67	221 i
Medical equipment and supplies	3391	5,761	497	11	188	80	43	177 i
Other miscellaneous manufacturing	3399	3,040	120	3	25	23	25	44 i
Nonmanufacturing industries	21-23, 42-81	249,139	12,630 i	548	1,905	2,698	430	7,050 i
Mining, extraction, and support activities	21	53,434	313	14	69	71	32	127 i
Utilities	22	68,559	150	6	67	13	21	43 i
Wholesale trade	42	3,440 i	265 i	11 i	18 i	2	5	228 i
Electronic shopping and electronic auctions	454111-12	6,747	383	D	D	7	D	D
Transportation and warehousing	48-49	14,579	28	3	10	8	2	5 i
Information	51	61,347	4,533 i	214	817	642	104	2,756 i
Publishing	511	9,197	1,841	188	667	373	59	553 i
Newspaper, periodical, book, and directory publishers	5111	1,353 i	47 i	0	0	1 i	1 i	44 i
Software publishers	5112	7,844	1,794	188	667	372	58	509 i
Telecommunications	517	39,523	2,001 i	4	18	12	3	1,963 i
Data processing, hosting, and related services	518	4,009	396	4	87	192	27	86 i
Other information	other 51	8,618	295 i	17	44	65	14	153 i
Finance and insurance	52	13,205	2,681	51	266	1,344	117	903 i
Real estate and rental and leasing	53	2,619	49 i	0	13	5	*	30 i
Lessors of nonfinancial intangible assets (except copyrighted works)	533	75	25	0	13	5	*	7 i
Other real estate and rental and leasing	other 53	2,544	23 i	0	*	0	0	23 i
Professional, scientific, and technical services	54	11,495 i	3,662 i	187	471	551	138	2,315 i
Architectural, engineering, and related services	5413	1,036 i	132 i	34	30	3	8	57 i
Computer systems design and related services	5415	5,736 i	1,828 i	6	124	353	36	1,310 i
Scientific research and development services	5417	1,609	853	143	243	106	90	270 i
Biotechnology research and development	541711	629	371	75	146	12	46	92 i
Physical, engineering, and life sciences (except biotechnology) research and development	541712	974	482	69	96	94	44	178 i
Social sciences and humanities research and development	541720	5 i	*	0	*	*	*	* i
Other professional, scientific, and technical services	other 54	3,114	848 i	3	75	89	3	678 i
Health care services	621-23	810	28 i	D	9	2	D	D
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	12,903 i	539 i	D	D	53	D	442 i
All companies (number of domestic employees)	-	459,868	26,058	1,700	6,733	3,641	2,082	11,901 i
Small companies ^a								
5-499	-	47,158 i	5,525 i	211	1,167	360	309	3,478 i

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5-99	-	19,174 i	3,025 i	53	414	94	140	2,324 i
5-49	-	11,826 i	2,118 i	28	230	70	116	1,674 i
5-9	-	1,579 i	270 i	1	29	*	3	236 i
10-24	-	4,257 i	782 i	10	87	5	75	603 i
25-49	-	5,990 i	1,067 i	17	114	65	38	834 i
50-99	-	7,347 i	907 i	25	184	23	24	650 i
100-249	-	14,636 i	1,566 i	115	478	163	100	709 i
250-499	-	13,349 i	934 i	43	275	103	68	446 i
Medium and large companies								
500-999	-	13,990 i	1,265	190	374	151	118	434 i
1,000-4,999	-	67,124	3,825	322	1,121	743	294	1,345 i
5,000-9,999	-	56,384	2,736	276	1,299	529	122	509 i
10,000-24,999	-	88,991	3,675	383	780	322	787	1,402 i
25,000 or more	-	186,221	9,032	319	1,992	1,536	452	4,732 i

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

NAICS = 2007 North American Industry Classification System.

^a The upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

NOTES: Detail may not add to total because of rounding. The industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the 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, 2012.