

TABLE 54

Capital expenditures in the United States and for domestic R&D paid for and performed by the company, by type of expenditure, industry, and company size: 2019

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Domestic R&D						
			Total	Land acquisition	Buildings and land improvement	Equipment	Capitalized software	All other	
All industries	21-23, 31-33, 42-81	781,625	29,106	237	3,739	15,663	5,475	3,992	
Manufacturing industries	31-33	337,722	17,674	230	2,987	10,745	1,669	2,043	
Food	311	18,408	432	102	77	180	42	31	
Beverage and tobacco products	312	8,239	160	0	101	46	1	12	i
Textile, apparel, and leather products	313-16	2,717	85	*	14	38	19	15	
Wood products	321	1,445	7	0	*	6	*	*	
Paper	322	6,715	65	0	2	59	1	4	i
Printing and related support activities	323	3,140	i 11	i *	0 - 6	7	0 - 6	0 - 6	i
Petroleum and coal products	324	29,185	125	*	0 - 14	91	0 - 29	0 - 18	
Chemicals	325	69,379	5,634	74	1,934	2,763	309	554	
Basic chemicals	3251	23,038	358	*	81	239	22	17	
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	8,732	225	*	42	153	5	25	
Pesticide, fertilizer, and other agricultural chemicals	3253	3,978	57	0	0 - 20	20	0 - 18	19	i
Pharmaceuticals and medicines	3254	24,722	4,476	74	1,603	2,054	267	478	
Soap, cleaning compound, and toilet preparation	3256	5,528	170	0	40	114	0 - 18	0 - 18	i
Paint, coating, adhesive, and other chemicals	3255, 3259	3,380	347	i 0	143 - 165	i 184	i 0 - 18	0 - 18	
Plastics and rubber products	326	12,138	393	*	20	221	24	129	
Nonmetallic mineral products	327	4,445	69	0	10	42	1	16	
Primary metals	331	6,724	89	3	9	58	1	19	i
Fabricated metal products	332	6,408	204	*	10	136	9	50	
Machinery	333	15,899	953	1	95	588	130	139	
Agricultural implement	33311	1,963	58	*	14	27	4	13	
Semiconductor machinery	333242	1,226	419	1	37	284	39	58	
Engine, turbine, and power transmission equipment	3336	3,190	85	0	15	56	3	11	
Other machinery	other 333	9,521	391	*	29	221	83	58	
Computer and electronic products	334	38,870	i 5,765	18	i 439	4,111	759	438	
Communications equipment	3342	3,712	780	0	21	586	54	120	i
Semiconductor and other electronic components	3344	20,031	i 2,698	i 8	i 67	i 2,016	i 403	204	
Navigational, measuring, electromedical, and control instruments	3345	7,975	899	10	i 41	i 667	74	105	i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	1,340	222	i 9	i 5	i 181	i 11	15	i
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	2,429	448	i 1	21	i 302	50	74	i
Other measuring and controlling device	other 3345	4,206	228	0	15	184	14	15	
Other computer and electronic products	other 334	7,151	1,388	0	310	841	228	10	

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			Total	Land acquisition	Buildings and land improvement	Equipment	Capitalized software	All other
Electrical equipment, appliances, and components	335	4,785	477	1	35	346	20	76
Transportation equipment	336	90,041	2,066	13	147	1,366	186	354
Motor vehicles, bodies, trailers, and parts	3361-63	77,242	1,454	12	115	978	176	172
Aerospace products and parts	3364	8,344	486 - 495	1	30	297	4 - 7	156
Aircraft, aircraft engine, and aircraft parts	336411-13	8,090	438	0	12 - 18	265 - 269	3 - 6	146 - 157
Guided missile, space vehicle, and related parts	336414-15, 336419	253	48 - 57	1	12 - 19	30 - 32	1	0 - 11
Military armored vehicle, tank, and tank component	336992	21	1	0	0	1	0	* i
Other transportation	other 336	4,434	117 - 127 i	0	2	90 i	1 - 8	25
Furniture and related products	337	1,293	48	0	11	28	3	6
Miscellaneous	339	17,892	1089	16 i	78	660	144	191
Medical equipment and supplies	3391	13,545	954	16 i	71	561	135	171
Other miscellaneous manufacturing	3399	4,348	135	0	7	99	9	19
Nonmanufacturing industries	21-23, 42-81	443,902	11,432	7	752	4,918	3,807	1,949
Mining, quarrying, oil and gas extraction, and support activities	21	35,505	441	0	4	168	194	75
Utilities	22	104,459	210 i	0	* i	20 - 36 i	1 - 12	175 i
Wholesale trade	42	66 - 26,950 i	66 - 155 i	1	3 i	6 - 90 i	12 - 17 i	45 i
Electronic shopping and electronic auctions	454111-12	77 - 26,961	77 - 89 i	0	4 i	16 - 71 i	14 - 26	0 - 31
Transportation and warehousing	48-49	31,551	495	* i	23	168 i	216 i	88
Information	51	163,057	5,270	2	445	2,641	1,724	458
Publishing	511	21,758	1,166	2	266	548	256	94
Newspaper, periodical, book, and directory publishers	5111	12	1	0	0	*	1	0
Software publishers	5112	21,747	1,165	2	266	548	255	94
Telecommunications	517	72,902	241 i	0	4	182 i	52	4 i
Data processing, hosting, and related services	518	21,341	2,260	*	87	736	1,153	283 i
Other information	other 51	47,056	1,603	0	87	1,175	263	77
Finance and insurance	52	28,091	1,548 i	0	20 i	302 i	796 i	430
Real estate and rental and leasing	53	886	5 - 78	0	0	3	2 - 73	*
Lessors of nonfinancial intangible assets (except copyrighted works)	533	9	*	0	0	*	*	i 0
Other real estate and rental and leasing	other 53	878	5 - 78	0	0	3	1 - 73	*
Professional, scientific, and technical services	54	22,719	2,371	4	237	1,114	512	505
Architectural, engineering, and related services	5413	6,585	153	*	4 i	64 i	38 i	47 i
Computer systems design and related services	5415	10,079	935	3	37	506	246	144

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Scientific research and development services	5417	2,990	944	1	194	481	43	224	
Research and development in biotechnology	541711	1,035	228	0	27	172	2	27	
Research and development in the physical, engineering, and life sciences (except biotechnology)	541712	1,945	707	1	166	304	40	196	
Research and development in the social sciences and humanities	541720	10	9	0	1	5	1	2	
Other professional, scientific, and technical services	other 54	3,064	340	0	3	63	185	90	
Health care services	621-23	2,863	385	0	10	308	33-70	0-31	
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	27,749	480	*	6	93	234	147	
All companies (number of domestic employees)	-	781,625	29,106	237	3,739	15,663	5,475	3,992	
Small companies									
10-19 ^a	-	4,330	610	1	33	345	61	171	
20-49	-	5,957	1,086	1	77	478	135	394	
Medium companies									
50-99	-	9,279	958	* ⁱ	127	548	117	166	
100-249	-	16,050	1,492	6	167	721	286	311	
Large companies									
250-499	-	13,374	1,502	4	185	774	326	213	
500-999	-	23,324	1,612	2	119	777	371	344	
1,000-4,999	-	85,589	5,382	19	855	2,566	1,082	859	
5,000-9,999	-	91,179	3,100	14	449	1,791	616	231	
10,000-24,999	-	151,268	4,606	78	783	2,167	844	733	
25,000 or more	-	381,274	8,758	112	943	5,497	1,637	569	

* = amount < \$500,000; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a The Business Enterprise Research and Development Survey does not include companies with fewer than 10 domestic employees.**Note(s):**

Detail may not add to total because of rounding. 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. Beginning in survey year 2018, statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D. This change has affected the comparability of these estimates with estimates published for years prior to 2018. The "undistributed" column shown in prior years is no longer necessary because of processing improvements implemented beginning in 2015. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2019.