

TABLE 46

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: 2020

(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	686,393	32,494	147	4,060	15,731	8,436	4,120
Manufacturing industries	31-33	288,842	19,727	123	3,073	11,666	2,576	2,289
Food	311	18,659	449	17	112	224	62	34
Beverage and tobacco products	312	5,895	i 115	*	58	43	1	12
Textile, apparel, and leather products	313-16	2,001	43	*	16	12	13	2
Wood products	321	1,381	10	1	1	4	*	3
Paper	322	5,892	94	0	1	78	1	i 15
Printing and related support activities	323	1,583	66	0	*	11	53	2
Petroleum and coal products	324	21,622	115	0	0 - 25	84	0 - 32	0 - 32
Chemicals	325	57,186	5,311	19	1,661	2,336	452	844
Basic chemicals	3251	16,653	270	0	35	211	5	19
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	8,257	i 106	2	21	77	5	1
Pesticide, fertilizer, and other agricultural chemicals	3253	2,466	32 - 53	*	12	21	*	i 0 - 19
Pharmaceuticals and medicines	3254	22,872	4,619	16	1,545	1,841	425	792
Soap, cleaning compound, and toilet preparation	3256	4,547	194	*	39	136	3	16
Paint, coating, adhesive, and other chemicals	3255, 3259	2,390	72 - 93	1	9	51	13	0 - 19
Plastics and rubber products	326	10,040	310	*	65	154	5	85
Nonmetallic mineral products	327	4,747	166	i 0	25	i 125	i 1	i 16
Primary metals	331	9,752	96	0	17	66	*	13
Fabricated metal products	332	5,454	278	30	20	157	17	55
Machinery	333	16,259	1,298	2	157	727	290	122
Agricultural implement	33311	1,137	152	0	28	41	79	4
Semiconductor machinery	333242	1,902	400	1	36	313	28	21
Engine, turbine, and power transmission equipment	3336	2,398	109	0	19	80	2	7
Other machinery	other 333	10,822	638	1	74	292	181	90
Computer and electronic products	334	39,845	7,578	4	i 532	5,349	1,207	485
Communications equipment	3342	4,053	742	0	6	i 429	259	i 48
Semiconductor and other electronic components	3344	21,535	i 3,850	0	88	2,983	561	218
Navigational, measuring, electromedical, and control instruments	3345	6,783	1,046	i 4	i 99	i 673	i 97	i 173
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	864	211	i 0	21	i 152	i 22	i 15
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	3,223	638	i 4	i 65	i 370	i 64	i 135
Other measuring and controlling device	other 3345	2,696	197	0	13	150	11	i 23
Other computer and electronic products	other 334	7,474	1,940	*	339	1,265	290	47

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Electrical equipment, appliances, and components	335	3,817	638	0	34	479	21	104	
Transportation equipment	336	63,159	1,924	42	275	1,208	234	164	
Motor vehicles, bodies, trailers, and parts	3361-63	52,378	1,418	28	203	865	214	108	
Aerospace products and parts	3364	8,223	403	1	59	301	13	29	
Aircraft, aircraft engine, and aircraft parts	336411-13	7,695	318	1	35	250	11	20	
Guided missile, space vehicle, and related parts	336414-15, 336419	528	85	0	24	50	2	9	
Military armored vehicle, tank, and tank component	336992	22	1	0	*	i 1	* i	0	
Other transportation	other 336	2,537	102	13	i 14	i 41	7	27	
Furniture and related products	337	1,132	35	*	9	21	1	4	
Miscellaneous	339	20,418	1,201	7	73 - 98	589	182 - 226	288 - 338	
Medical equipment and supplies	3391	15,501	1,020	5	74	518	183	240	
Other miscellaneous manufacturing	3399	4,917	182	2	0 - 25	71	0 - 43	48 - 98	
Nonmanufacturing industries	21-23, 42-81	397,551	12,767	24	987	4,065	5,859	1,831	
Mining, quarrying, oil and gas extraction, and support activities	21	15,851	110	0	4	80	9	17 i	
Utilities	22	102,740	362	0	*	i 12	9	341	
Wholesale trade	42	5,072	181	4	53	56 i	32	36	
Electronic shopping and electronic auctions	454111-12	3 - 54,098	3 - 1,643	i 0	4	i 0 - 139	i 1,054	i 0 - 454 i	
Transportation and warehousing	48-49	20,208	220 - 311	0	*	i 14	i 207	0 - 91 i	
Information	51	153,819	5,301	1	361	2,554	2,010	374	
Publishing	511	22,655	1,091	*	186	547	232	125	
Newspaper, periodical, book, and directory publishers	5111	210	6 i	0	0	* i	2 i	5 i	
Software publishers	5112	22,445	1,085	*	186	547	231	121	
Telecommunications	517	61,468	205 i	0	*	53	148 i	3	
Data processing, hosting, and related services	518	26,346	2,130	*	146	620	1,265	100	
Other information	other 51	43,351	1,874	0	30	1,334	365	146	
Finance and insurance	52	28,420	1,969	*	i *	119	1,639 i	211	
Real estate and rental and leasing	53	1,395	35	0	0	7	26	2 i	
Lessors of nonfinancial intangible assets (except copyrighted works)	533	65 i	2 i	0	0	* i	1 i	1 i	
Other real estate and rental and leasing	other 53	1,330	33	0	0	7	25	*	
Professional, scientific, and technical services	54	12,142	2,838	19	522	1,064	865	370	
Architectural, engineering, and related services	5413	1,381	135	*	6	28	19	81	

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Computer systems design and related services	5415	4,543	1,148	0	63	573	363	149
Scientific research and development services	5417	3,532	1,063	18	446	415	100	84
Research and development in nanotechnology	541713	17	14	0	1	13	*	0
Research and development in biotechnology (except nanobiotechnology)	541714	1,355	328	18	88	146	39	36
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	2,151	712	*	356	253	55	48
Research and development in the social sciences and humanities	541720	9	9	0	*	3	6	0
Other professional, scientific, and technical services	other 54	2,686	493	0	7	48	383	55
Health care services	621-23	3,782	83	*	14	25	13	31
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	29 - 54,124	29 - 1,669	*	30	0 - 139	0 - 1,054	0 - 454
All companies (number of domestic employees)	-	686,393	32,494	147	4,060	15,731	8,436	4,120
Small companies								
10-19 ^a	-	1,784	452	2	50	152	108	141
20-49	-	8,869	1,025	1	121	525	199	178
Medium companies								
50-99	-	5,891	1,152	11	212	484	218	228
100-249	-	19,307	1,593	33	350	726	320	164
Large companies								
250-499	-	21,765	1,295	2	188	506	442	157
500-999	-	18,493	1,559	15	128	739	485	192
1,000-4,999	-	81,956	6,406	24	1,185	2,564	1,538	1,095
5,000-9,999	-	79,859	2,803	18	267	1,261	915	342
10,000-24,999	-	125,016	6,249	17	606	2,990	1,921	715
25,000 or more	-	323,454	9,960	23	953	5,785	2,290	908

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

NAICS = 2017 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. Statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D and are not comparable 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, 2020.