

TABLE 24

Domestic R&D paid for and performed by the company, by industry and company size: 2015

(Millions of U.S. dollars)

Industry	NAICS code	Company size (domestic employees)												
		All companies	5-9 ^a	10-19	20-49	50-99	100-249	250-499	500-999	1,000-4,999	5,000-9,999	10,000-24,999	25,000 or more	
All industries	21-23, 31-33, 42-81	296,677	1,972 i	4,434 i	7,933 i	8,803	11,037	11,368	13,194	48,264	34,660	48,450	106,562	
Manufacturing industries	31-33	195,792	692 i	1,574 i	3,625 i	4,453	7,011	6,505	9,043	33,666	21,290	43,991	63,942	
Food	311	4,644	35 i	10 i	19 i	37 i	136 i	145	175	484	338	1,271 i	1,992	
Beverages and tobacco products	312	885	5 i	* i	3 i	3 i	9	10	7	58	159	39	594	
Textiles, apparel, and leather products	313-16	715	11 i	19 i	27 i	24 i	45 i	39	20	202	245	83	0	
Wood products	321	188	2 i	1 i	16 i	13 i	10 i	10 i	34	39	64	0	0	
Paper	322	763	0	1 i	14 i	12 i	27 i	26	23	66	123	446	27	
Printing and related support activities	323	189	i	D	D	20 i	13 i	25 i	9 i	15	61 i	32	D	* i
Petroleum and coal products	324	200	1 i	D	12 i	30	10 i	14	47	16	0	D	0	
Chemicals	325	58,769	237 i	604	1,545	1,686	2,635	2,284	1,876	8,342	7,418	19,523	12,619	
Basic chemicals	3251	2,574	3 i	17 i	92	111	110	130	124	851	492	646	0	
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,172	17 i	68 i	35 i	24 i	26	85	60	93 i	159	269	336	
Pesticides, fertilizers, and other agricultural chemicals	3253	2,157	2 i	D	18	27 i	D	D	0	147	D	D	0	
Pharmaceuticals and medicines	3254	50,242	203 i	440	1,312	1,397	2,382	1,972	1,631	6,441	5,993	16,265	12,207	
Soaps, cleaning compounds, and toilet preparations	3256	1,283	4 i	13 i	25 i	53	50	17	52	267	485	298 i	19	
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,339	8 i	D	64 i	74 i	D	D	8	543	D	D	57	
Plastics and rubber products	326	2,390	5 i	31 i	58 i	105 i	302 i	191 i	281	627	655	134	0	
Nonmetallic mineral products	327	1,239	9 i	4 i	6 i	34 i	70 i	13	65	103	105	829	0	
Primary metals	331	579	1 i	16 i	12 i	20 i	58	27	50	152	33	211	0	
Fabricated metal products	332	2,039	38 i	87 i	153 i	168 i	392 i	249	178	458	236	78	0	
Machinery	333	12,544	63 i	198 i	466 i	392 i	568	590	881	2,892	2,142	1,011	3,342	
Agricultural implements	33311	1,516	19 i	2 i	18 i	7 i	44	13	57	65	177	0	1,113	
Semiconductor machinery	333242	2,917	1 i	1 i	6	18	77 i	34	101	1,464 i	1,215	0	0	
Engines, turbines, and power transmission equipment	3336	2,381	2	* i	32 i	13	29	32 i	11	118	234	0	1,911	
Other machinery	other 333	5,731	41 i	194 i	410 i	354 i	418	511	713	1,246	516	1,011	317	
Computer and electronic products	334	63,765	116 i	286 i	736 i	790	1,464	1,971	3,547	13,445	5,915	9,899	25,596	
Communications equipment	3342	17,999	D	18 i	145 i	142	202	407	1,184 i	2,299	D	D	D	
Semiconductors and other electronic components	3344	28,597	D	D	D	238	675	936	1,188	6,746	2,645	7,268	D	
Navigational, measuring, electromedical, and control instruments	3345	9,218	48 i	161	281 i	295	389	458 i	599	2,569	281	1,172	2,967	
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	2,525	9 i	122	74	110	154	248 i	279	673	0	163	692	
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	2,881	2	1 i	5 i	16	52	34	21	452	D	D	1,887	
Other measuring and controlling devices	other 3345	3,813	37 i	38 i	202 i	169	183	176	298	1,444	D	D	387	
Other computer and electronic products	other 334	7,951	D	D	D	116	199	169	576	1,831	D	D	D	
Electrical equipment, appliances, and components	335	3,852	20 i	79	122 i	177	207	232	360 i	765	543	779 i	568	
Transportation equipment	336	29,224	12 i	81	98 i	276	479	358	668	2,803	2,021	4,441	17,987	
Automobiles, bodies, trailers, and parts	3361-63	16,636	2 i	D	50 i	133	220	241	419	1,703	1,528	2,326	D	

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Aerospace products and parts	3364	11,138	* i	48	D	106	207	33	166	744	D	D	7,481											
Aircraft, aircraft engines, and aircraft parts	336411-13	10,754	* i	42	D	104	207	33	148	509	D	1,853	7,481											
Guided missiles, space vehicles, and related parts	336414-15, 336419	385	i	0	5	D	3	0	0	17	235	i	0	D	0									
Military armored vehicles, tanks, and tank components	336992	5	* i	*	1	0	1	1	i	0	0	0	0	0										
Other transportation	other 336	1,445	9	i	D	D	37	51	83	83	355	D	D	D										
Furniture and related products	337	443	35	i	10	i	24	i	13	i	28	i	26	i	4	i	146	157	0	0				
Miscellaneous manufacturing	339	13,365	D	D	295	660	544	312	813	3,008	1,106	i	5,172	1,217										
Medical equipment and supplies	3391	11,211	41	i	109	i	237	601	445	172	684	2,077	815	i	5,172	857								
Other miscellaneous manufacturing	3399	2,154	i	D	D	57	i	59	i	99	i	141	128	931	291	i	0	360	i					
Nonmanufacturing industries	21-23, 42-81	100,885	1,280	i	2,860	i	4,309	i	4,350	i	4,026	4,863	4,152	14,598	13,370	4,458	42,621							
Mining, extraction, and support activities	21	3,393	3	i	38	i	16	14	i	D	50	29	i	111	D	1,298	1,667							
Utilities	22	446	6	6	i	3	0	1	i	*	i	5	32	141	222	29								
Wholesale trade	42	1,684	i	101	i	197	i	743	i	190	i	221	i	82	i	23	i	120	i	6	i	1	i	0
Electronic shopping and electronic auctions	454111-12	1,517	i	30	i	47	i	26	i	*	i	34	i	D	48	i	6	D	0	D				
Transportation and warehousing	48-49	403	D	0	D	D	3	D	D	15	0	D	226											
Information	51	64,578	114	i	431	i	679	i	1,852	i	1,713	2,186	2,607	10,246	11,636	1,330	31,783							
Publishing	511	32,598	71	i	212	i	290	i	1,052	i	794	858	695	5,943	4,985	0	17,699							
Newspaper, periodical, book, and directory publishers	5111	98	i	0	11	i	2	i	2	i	20	i	45	18	i	*	i	0	0	0				
Software publishers	5112	32,500	71	i	202	i	288	i	1,050	i	774	814	677	5,942	4,985	0	17,699							
Telecommunications	517	3,537	10	i	D	37	i	285	51	D	179	61	0	28	D									
Data processing, hosting, and related services	518	9,314	33	i	D	D	479	795	1,072	1,525	3,221	D	1,302	D										
Other information	other 51	19,129	0	D	D	36	73	D	209	1,022	D	0	D											
Finance and insurance	52	5,329	2	i	62	i	3	10	52	17	534	794	296	670	2,890									
Real estate and rental and leasing	53	301	0	1	i	4	3	i	31	D	D	220	0	D	0									
Lessors of nonfinancial intangible assets (except copyrighted works)	533	68	0	1	i	3	D	D	D	D	*	i	0	0	0									
Other real estate and rental and leasing	other 53	232	0	* i	1	i	D	D	D	0	220	0	D	0										
Professional, scientific, and technical services	54	21,915	1,014	i	2,051	i	2,744	i	2,177	i	1,750	2,169	746	2,885	296	866	5,217							
Architectural, engineering, and related services	5413	2,247	i	127	i	209	i	461	i	496	i	254	i	160	114	223	127	77	*	i				
Computer systems design and related services	5415	12,418	303	i	740	i	932	i	585	i	852	1,477	458	2,279	124	i	745	3,922						
Scientific research and development services	5417	3,896	461	i	998	i	1,158	656	402	153	25	10	9	i	8	i	16							
Biotechnology research and development	541711	1,536	i	154	i	381	i	493	298	i	124	69	2	i	0	0	0	16						
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,348	303	i	615	i	664	355	278	84	23	10	9	i	8	i	0							
Social sciences and humanities research and development	541720	12	i	4	i	3	i	1	3	*	0	0	0	0	0	0								
Other professional, scientific, and technical services	other 54	3,354	122	i	104	i	193	i	441	241	379	149	374	37	36	1,279								
Health care services	621-23	460	6	i	15	i	32	33	i	126	i	105	63	7	i	0	*	i	73					

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Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	861	D	11 i	D	D	D	D	D	162	D	D	D

* = 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 = 2012 North American Industry Classification System.

^a Business R&D and Innovation Survey does not include companies with fewer than five 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 R&D.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2015.