

TABLE 57

U.S. patent applications and patents issued to companies located in the United States that performed or funded R&D, by industry and company size: 2015

(Number)

Industry and company size	NAICS code	Applications					Patents issued ^c
		Total	Nonprovisional utility patents				
			Total	To foreign jurisdictions ^a	From within organized R&D activity ^b		
All industries	21-23, 31-33, 42-81	129,562	102,195	45,358	75,926	91,327	
Manufacturing industries	31-33	86,411	65,024	37,047	51,882	60,911	
Food	311	1,353	546	389	216	949	
Beverages and tobacco products	312	586	346	269	310	277	
Textiles, apparel, and leather products	313-16	393	214	155	202	123	
Wood products	321	48	26	13	26	33	
Paper	322	262	178	157	169	183	
Printing and related support activities	323	147	91	52	81	90	
Petroleum and coal products	324	126	92	44	91	68	
Chemicals	325	18,066	11,023	8,077	9,765	9,268	
Basic chemicals	3251	1,556	989	613	775	872	
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	771	389	340	373	451	
Pesticides, fertilizers, and other agricultural chemicals	3253	3,416	2,391	1,698	2,281	1,402	
Pharmaceuticals and medicines	3254	10,011	5,521	4,573	5,159	5,431	
Soaps, cleaning compounds, and toilet preparations	3256	1,039	826	442	533	598	
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,272	907	410	644	513	
Plastics and rubber products	326	933	533	321	518	426	
Nonmetallic mineral products	327	1,474 i	1,237 i	899 i	1,215 i	460 i	
Primary metals	331	297	125	94	112	111	
Fabricated metal products	332	1,014	506	305	467	550	
Machinery	333	6,654	4,949	3,116	4,393	4,335	
Agricultural implements	33311	705	483	345	420	409	
Semiconductor machinery	333242	1,216	900	592	766	818	
Engines, turbines, and power transmission equipment	3336	1,715	1,502	819	1,430	1,203	
Other machinery	other 333	3,018	2,064	1,360	1,777	1,905	
Computer and electronic products	334	30,987	26,431	10,636	20,846	27,064	
Communications equipment	3342	6,600	5,818	1,906	4,555	5,712	
Semiconductors and other electronic components	3344	14,534	13,042 i	5,161	9,371	14,025	
Navigational, measuring, electromedical, and control instruments	3345	5,002	3,423	2,057	2,869	3,598	
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	373	284	137	264	323	
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	2,638	1,967	1,172	1,858	2,019	
Other measuring and controlling devices	other 3345	1,991	1,172	748	747	1,256	

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Other computer and electronic products	other 334	4,850	4,149	1,513	4,052	3,729
Electrical equipment, appliances, and components	335	3,274	2,404	1,218	1,834	1,995
Transportation equipment	336	12,568	10,538	7,753	6,505	8,967
Automobiles, bodies, trailers, and parts	3361-63	6,146	4,763	3,690	3,118	4,144
Aerospace products and parts	3364	6,152	5,582	3,995	3,207	4,553
Aircraft, aircraft engines, and aircraft parts	336411-13	6,098	D	D	3,199	D
Guided missiles, space vehicles, and related parts	336414-15, 336419	53	D	D	9	D
Military armored vehicles, tanks, and tank components	336992	4	D	D	0	D
Other transportation	other 336	266	D	D	179	D
Furniture and related products	337	355	148	62	106	104
Miscellaneous manufacturing	339	7,875	5,635	3,487	5,024	5,906
Medical equipment and supplies	3391	6,357	4,403	2,820	3,915	4,505
Other miscellaneous manufacturing	3399	1,518	1,232	i 667	i 1,110	1,401
Nonmanufacturing industries	21-23, 42-81	43,151	37,170	8,311	24,045	30,416
Mining, extraction, and support activities	21	3,392	3,042	2,329	2,982	2,456
Utilities	22	18	17	D	10	13
Wholesale trade	42	224	75	53	67	61
Electronic shopping and electronic auctions	454111-12	D	D	D	D	D
Transportation and warehousing	48-49	D	D	D	D	58
Information	51	19,631	16,729	3,427	11,911	16,395
Publishing	511	9,529	7,834	2,285	6,493	7,486
Newspaper, periodical, book, and directory publishers	5111	0	0	0	0	0
Software publishers	5112	9,529	7,834	2,285	6,493	7,486
Telecommunications	517	2,415	2,345	i 156	1,376	3,024
Data processing, hosting, and related services	518	2,296	1,921	428	1,192	1,519
Other information	other 51	5,391	4,629	557	2,850	4,366
Finance and insurance	52	1,702	1,296	74	D	440
Real estate and rental and leasing	53	55	D	D	D	48
Lessors of nonfinancial intangible assets (except copyrighted works)	533	D	25	D	25	D
Other real estate and rental and leasing	other 53	D	D	0	D	D
Professional, scientific, and technical services	54	15,436	13,455	2,086	D	9,685
Architectural, engineering, and related services	5413	566	D	D	191	289

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Computer systems design and related services	5415	11,346	D	D	D	D	
Scientific research and development services	5417	3,101	1,768	1,059	1,674	1,203	
Biotechnology research and development	541711	D	D	D	D	D	
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,118	1,167	662	1,117	846	
Social sciences and humanities research and development	541720	D	D	D	D	D	
Other professional, scientific, and technical services	other 54	422	D	D	D	D	
Health care services	621-23	100	68	38	67	38	
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	D	31	D	D	
All companies (number of domestic employees)	-	129,562	102,195	45,358	75,926	91,327	
Micro companies ^d							
5-9	-	454	289	225	269	208	
Small companies							
10-19	-	1,256	686	411	624	333	
20-49	-	3,052	1,678	936	1,442	1,461	
Medium companies							
50-99	-	2,820	1,720	1,018	1,471	1,565	
100-249	-	3,920	2,611	1,308	2,037	1,742	
Large companies							
250-499	-	3,983	2,581	1,321	2,348	2,215	
500-999	-	5,967	4,270	2,209	3,545	3,801	
1,000-4,999	-	18,158	12,789	6,220	10,661	12,284	
5,000-9,999	-	14,866	11,481	4,291	8,111	10,112	
10,000-24,999	-	22,344	18,128	10,530	16,280	15,912	
25,000 or more	-	52,743	45,963	16,889	29,139	41,694	

D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is imputation to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Also includes patent applications that company planned to apply for in foreign jurisdictions.

^b Includes patent applications in which the named inventor(s) were R&D employees.

^c For a small number of companies issued more than 100 patents by the U.S. Patent and Trademark Office (USPTO), counts from USPTO.gov were used to supplement survey data.

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^d 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. Statistics are based on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse.

Source(s)

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