

TABLE 131. U.S. patent applications and patents issued for R&D-active and non-R&D-active companies, by industry and company size: 2010
(Number)

Industry and company size	NAICS code	All companies		R&D-active companies ^a		Non-R&D-active companies	
		Applications	Patents issued ^b	Applications	Patents issued ^b	Applications	Patents issued ^b
All industries	21–23, 31–33, 42–81	141,544	101,768	123,084	86,889	18,460	14,879
Manufacturing industries	31–33	83,924	59,174	81,749	57,760	2,175	1,415
Food	311	2,852	1,189	2,687	1,089	165	100
Beverage and tobacco products	312	409	209	396	209	13	0
Textiles, apparel, and leather products	313–316	1,240	889	1,194	872	46	17
Wood products	321	160	97	149	90	11	7
Paper	322	1,338	1,341	1,170	1,212	168	128
Printing and related support activities	323	369	354	353	139	16	215
Petroleum and coal products	324	784	563	784	562	0	1
Chemicals	325	16,658	9,886	16,609	9,813	49	73
Basic chemicals	3251	1,537	927	1,536	876	1	51
Resin, synthetic rubber, fibers, and filaments	3252	701	544	695	542	6	2
Pesticide, fertilizer, and other agricultural chemical	3253	691	550	691	550	0	0
Pharmaceuticals and medicines	3254	9,265	5,423	9,265	5,423	0	0
Soap, cleaning compound, and toilet preparation	3256	1,973	1,218	1,965	1,217	7	1
Paint, coating, adhesive, and other chemical	3255, 3259	2,493	1,223	2,458	1,204	35	19
Plastics and rubber products	326	2,310	1,226	2,095	1,173	215	53
Nonmetallic mineral products	327	740	569	680	565	60	4
Primary metals	331	439	289	429	289	10	0
Fabricated metal products	332	2,638	1,576	1,661	1,045	977	531
Machinery	333	6,219	4,509	6,192	4,492	27	17
Agricultural implement	33311	506	462	501	459	5	3
Semiconductor machinery	333295	1,325	1,184	1,325	1,184	0	0
Engine, turbine, and power transmission equipment	3336	622	287	619	287	3	0
Other machinery	other 333	3,766	2,576	3,747	2,562	19	14
Computer and electronic products	334	26,948	23,089	26,810	22,947	138	143
Communications equipment	3342	3,747	3,607	3,747	3,605	0	2
Semiconductor and other electronic components	3344	11,166	10,650	11,047	10,528	118	122
Navigational, measuring, electromedical, and control instruments	3345	6,588	4,484	6,573	4,481	15	3
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	2,711	1,775	2,711	1,775	0	0
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	2,044	1,618	2,044	1,618	0	0
Other measuring and controlling instruments	other 3345	1,834	1,090	1,819	1,087	15	3
Other computer and electronic products	other 334	5,447	4,348	5,442	4,333	5	16
Electrical equipment, appliances, and components	335	3,965	2,308	3,875	2,259	90	49
Transportation equipment	336	9,128	6,111	9,062	6,068	66	44
Automobiles, bodies, trailers, and parts	3361–3363	3,956	2,739	3,893	2,705	63	34
Aerospace products and parts	3364	4,946	3,239	4,946	3,231	0	8
Aircraft, aircraft engine, and aircraft parts	336411–336413	4,764	3,037	4,764	3,029	0	8
Guided missile, space vehicle, and related parts	336414, 336415, 336419	182	202	182	202	0	0
Military armored vehicle, tank, and tank components	336992	15	0	15	0	0	0

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Other transportation	other 336	211	133	208	131	3	2
Furniture and related products	337	681	434	667	427	13	7
Miscellaneous manufacturing	339	7,046	4,536	6,934	4,510	111	26
Medical equipment and supplies	3391	5,167	3,165	5,078	3,161	89	4
Other miscellaneous manufacturing	3399	1,879	1,371	1,856	1,349	23	22
Nonmanufacturing industries	21–23, 42–81	57,620	42,593	41,335	29,129	16,286	13,465
Mining, extraction, and support activities	21	2,104	1,230	2,076	1,198	27	32
Utilities	22	191	19	186	19	5	0
Construction	23	1,384	1,261	71	10	1,313	1,251
Wholesale trade	42	5,409	6,711	1,706	744	3,703	5,968
Retail trade	44, 45	3,266	3,108	764	225	2,502	2,883
Electronic shopping and electronic auctions	454111, 454112	763	204	713	185	51	19
Other retail trade	other 44, 45	2,502	2,904	51	40	2,451	2,864
Transportation and warehousing	48, 49	158	46	48	43	110	3
Information	51	13,922	13,024	13,752	12,895	170	130
Publishing	511	9,402	10,959	9,318	10,908	84	51
Newspaper, periodical, book, and directory publishers	5111	111	69	37	20	74	48
Software publishers	5112	9,291	10,891	9,281	10,888	10	3
Telecommunications	517	1,560	965	1,537	934	23	31
Data processing, hosting, and related services	518	679	213	678	195	1	18
Other information	other 51	2,282	887	2,220	857	62	30
Finance and insurance	52	1,105	522	970	464	135	58
Real estate and rental and leasing	53	941	559	442	308	499	251
Professional, scientific, and technical services	54	22,165	12,986	19,986	12,819	2,179	168
Architectural, engineering, and related services	5413	2,252	561	2,248	427	4	134
Computer systems design and related services	5415	11,748	9,903	11,608	9,894	140	9
Scientific R&D services	5417	4,993	1,997	4,973	1,983	20	13
Biotechnology R&D	541711	2,065	664	2,059	664	6	0
Physical, engineering, and life sciences (except biotechnology) R&D	541712	2,905	1,327	2,891	1,314	14	13
Social sciences and humanities R&D	541720	23	5	23	5	0	0
Other professional, scientific, and technical services	other 54	3,171	526	1,156	515	2,015	11
Health care services	621–623	3,270	170	265	170	3,005	0
Other nonmanufacturing	55, 56, 624, 71, 72, 81	3,706	2,957	1,069	234	2,637	2,723
All companies (number of employees)	–	141,544	101,768	123,084	86,889	18,460	14,879
Small companies (number of employees) ^c							
5–499	–	61,419	37,689	43,518	23,030	17,902	14,659
5–99	–	39,084	23,328	23,406	8,821	15,678	14,508
5–49	–	32,094	16,714	17,618	5,825	14,477	10,889
5–9	–	11,580	7,368	3,168	1,301	8,412	6,067

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10–24	–	13,432	6,949	8,900	2,472	4,531	4,477
25–49	–	7,082	2,396	5,549	2,052	1,533	344
50–99	–	6,989	6,615	5,788	2,996	1,201	3,619
100–249	–	7,621	2,792	5,472	2,688	2,149	103
250–499	–	14,715	11,569	14,640	11,521	75	48
Medium and large companies (number of employees)							
500–999	–	4,277	2,914	4,100	2,870	177	43
1,000–4,999	–	16,742	12,337	16,620	12,261	122	76
5,000–9,999	–	10,204	8,735	10,074	8,689	130	46
10,000–24,999	–	15,881	10,444	15,854	10,422	27	22
25,000 or more	–	33,021	29,649	32,918	29,616	103	33

NAICS = 2007 North American Industry Classification System.

^a Statistics are representative of companies located in United States that performed or funded R&D.

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

^c Upper bound based on U.S. Small Business Administration's definition of small business; Business R&D and Innovation Survey (BRDIS) does not include companies with fewer than five domestic employees.

NOTES: Detail may not add to total because of rounding. Industry classification based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, classification used for sampling was assigned.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey, 2010.