

TABLE 130. R&D-active and non-R&D-active companies in the United States that introduced new or significantly improved goods or services and the sales attributable to the new or improved goods or services, by industry and company size: 2008–10

Industry	NAICS code	Companies (number)	New or significantly improved goods or services										Sales from goods and services that were unchanged or only marginally changed (US\$millions) <sup>b</sup>
			New to the market <sup>a</sup>					New to the company <sup>a</sup>					
			Companies (number)		Companies (%)		Sales (US\$millions)	Companies (number)		Companies (%)		Sales (US\$millions)	
			Yes	No	Yes	No		Yes	No	Yes	No		
All industries	21–23, 31–33, 42–81	1,231,009	72,882	190,928	5.9	15.5	828,998	108,000	152,268	8.8	12.4	770,240	25,947,261
Manufacturing industries	31–33	109,091	16,197	19,903	14.8	18.2	478,153	20,781	14,791	19.0	13.6	560,481	7,308,502
Food	311	8,339	1,129	1,398	13.5	16.8	13,103	1,666	894	20.0	10.7	124,902	916,235
Beverage and tobacco products	312	1,264	136	227	10.8	18.0	1,278	194	105	15.3	8.3	D	D
Textiles, apparel, and leather products	313–316	4,745	932	590	19.6	12.4	4,134	762	757	16.1	16.0	2,388	84,070
Wood products	321	4,815	274	964	5.7	20.0	1,388	372	802	7.7	16.7	1,537	75,641
Paper	322	1,673	114	246	6.8	14.7	10,521	212	179	12.7	10.7	8,266	142,397
Printing and related support activities	323	9,348	562	1,846	6.0	19.7	1,319	1,453	1,034	15.5	11.1	2,702	95,811
Petroleum and coal products	324	306	91	40	29.8	12.9	2,564	46	59	15.0	19.3	510	D
Chemicals	325	5,096	1,294	1,066	25.4	20.9	146,452	1,720	638	33.8	12.5	69,505	1,360,557
Basic chemicals	3251	719	174	76	24.3	10.6	9,968	175	75	24.3	10.4	11,844	382,749
Resin, synthetic rubber, fibers, and filaments	3252	486	60	47	12.4	9.6	9,528	69	33	14.1	6.8	8,829	162,284
Pesticide, fertilizer, and other agricultural chemical	3253	171	22	26	12.9	15.1	1,412	22	26	12.9	15.1	1,054	38,284
Pharmaceuticals and medicines	3254	1,681	414	474	24.7	28.2	27,363	744	155	44.3	9.2	26,383	531,592
Soap, cleaning compound, and toilet preparation	3256	729	259	110	35.6	15.1	81,614	306	70	41.9	9.6	7,348	112,068
Paint, coating, adhesive, and other chemical	3255, 3259	1,310	364	332	27.8	25.4	16,568	406	278	31.0	21.2	14,046	133,580
Plastics and rubber products	326	5,210	1,024	875	19.7	16.8	7,780	1,137	735	21.8	14.1	8,253	211,562
Nonmetallic mineral products	327	4,521	491	970	10.9	21.4	2,187	625	724	13.8	16.0	4,000	98,522
Primary metals	331	1,860	114	290	6.1	15.6	4,258	235	163	12.6	8.8	5,932	236,056
Fabricated metal products	332	23,708	1,704	4,291	7.2	18.1	12,383	3,101	2,810	13.1	11.9	15,532	266,509
Machinery	333	10,731	2,400	1,895	22.4	17.7	55,908	2,401	1,793	22.4	16.7	47,425	361,834
Agricultural implement	33311	548	127	148	23.2	27.0	6,491	209	44	38.1	7.9	12,903	39,200
Semiconductor machinery	333295	101	57	17	55.9	16.8	2,641	33	41	33.1	40.7	1,064	18,567
Engine, turbine, and power transmission equipment	3336	611	218	75	35.7	12.2	706	63	172	10.3	28.1	1,779	38,288
Other machinery	other 333	9,471	1,999	1,655	21.1	17.5	46,070	2,096	1,537	22.1	16.2	31,679	265,779
Computer and electronic products	334	5,524	1,985	1,107	35.9	20.0	99,521	1,844	1,168	33.4	21.2	59,084	906,003
Communications equipment	3342	607	277	78	45.6	12.8	27,380	188	151	30.9	24.9	17,423	112,675
Semiconductor and other electronic components	3344	1,828	567	364	31.0	19.9	18,569	515	368	28.2	20.1	15,233	212,435
Navigational, measuring, electromedical, and control instruments	3345	1,898	829	272	43.7	14.3	26,099	705	371	37.2	19.5	13,416	244,706
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	250	88	75	35.1	29.9	8,830	92	59	36.8	23.6	3,781	43,913
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	251	186	14	74.2	5.4	8,350	147	53	58.5	21.2	5,991	115,534
Other measuring and controlling instruments	other 3345	1,396	555	184	39.8	13.2	8,919	466	259	33.4	18.5	3,644	85,259
Other computer and electronic products	other 334	1,191	312	393	26.2	33.0	27,473	436	278	36.6	23.4	13,012	336,188
Electrical equipment, appliances, and components	335	2,695	865	697	32.1	25.9	5,793	1,020	434	37.9	16.1	24,794	156,157
Transportation equipment	336	4,049	971	804	24.0	19.9	88,636	1,300	526	32.1	13.0	134,088	1,126,618
Automobiles, bodies, trailers, and parts	3361–3363	2,554	597	477	23.4	18.7	71,202	784	332	30.7	13.0	119,005	665,269

TABLE 130. R&D-active and non-R&D-active companies in the United States that introduced new or significantly improved goods or services and the sales attributable to the new or improved goods or services, by industry and company size: 2008–10

Industry	NAICS code	Companies (number)	New or significantly improved goods or services										Sales from goods and services that were unchanged or only marginally changed (US\$millions) <sup>b</sup>
			New to the market <sup>a</sup>					New to the company <sup>a</sup>					
			Companies (number)		Companies (%)		Sales (US\$millions)	Companies (number)		Companies (%)		Sales (US\$millions)	
			Yes	No	Yes	No		Yes	No	Yes	No		
Aerospace products and parts	3364	663	197	225	29.8	34.0	14,478	336	93	50.7	13.9	13,247	379,317
Aircraft, aircraft engine, and aircraft parts	336411–336413	530	85	D	16.1	D	13,303	223	85	42.1	16.1	12,112	340,978
	336414, 336415,												
Guided missile, space vehicle, and related parts	336419	133	112	D	84.1	D	1,176	113	7	84.8	5.4	D	D
Military armored vehicle, tank, and tank components	336992	12	6	0	46.9	0.0	526	3	D	24.8	D	D	D
Other transportation	other 336	820	171	102	20.8	12.5	2,430	177	D	21.5	D	1,769	81,193
Furniture and related products	337	5,630	384	899	6.8	16.0	4,224	715	578	12.7	10.3	5,668	97,785
Miscellaneous manufacturing	339	9,577	1,728	1,697	18.0	17.7	16,703	1,979	1,391	20.7	14.5	D	D
Medical equipment and supplies	3391	3,658	718	683	19.6	18.7	12,387	798	592	21.8	16.2	15,366	306,441
Other miscellaneous manufacturing	3399	5,919	1,010	1,014	17.1	17.1	4,316	1,181	799	20.0	13.5	D	D
Nonmanufacturing industries	21–23, 42–81	1,121,918	56,685	171,025	5.1	15.2	350,846	87,219	137,477	7.8	12.3	209,759	18,638,759
Mining, extraction, and support activities	21	5,873	189	626	3.2	10.7	1,002	204	617	3.5	10.5	2,464	1,029,909
Utilities	22	925	14	255	1.5	27.5	571	42	227	4.5	24.5	423	567,101
Construction	23	127,079	5,039	17,663	4.0	13.9	10,255	5,078	16,621	4.0	13.1	16,857	975,558
Wholesale trade	42	82,806	6,204	11,026	7.5	13.3	75,253	7,720	9,350	9.3	11.3	24,871	2,056,815
Retail trade	44, 45	154,845	7,114	23,372	4.6	15.1	15,596	8,394	21,148	5.4	13.7	13,162	4,086,088
Electronic shopping and electronic auctions	454111, 454112	2,368	222	353	9.4	14.9	D	282	185	11.9	7.8	1,448	D
Other retail trade	other 44, 45	152,477	6,892	23,019	4.5	15.1	D	8,112	20,964	5.3	13.7	11,714	D
Transportation and warehousing	48, 49	35,331	1,356	7,674	3.8	21.7	4,346	3,573	5,206	10.1	14.7	3,096	895,432
Information	51	17,252	2,652	3,212	15.4	18.6	135,248	3,326	2,418	19.3	14.0	64,377	1,188,290
Publishing	511	7,217	1,454	1,018	20.2	14.1	90,333	1,503	967	20.8	13.4	33,526	397,673
Newspaper, periodical, book, and directory publishers	5111	5,109	450	580	8.8	11.3	173	523	482	10.2	9.4	541	99,321
Software publishers	5112	2,108	1,004	438	47.6	20.8	90,159	980	485	46.5	23.0	32,985	298,352
Telecommunications	517	2,218	153	520	6.9	23.5	41,072	423	249	19.1	11.2	23,256	457,568
Data processing, hosting, and related services	518	1,949	502	297	25.8	15.3	1,356	535	238	27.4	12.2	1,607	86,315
Other information	other 51	5,868	542	1,375	9.2	23.4	2,487	865	963	14.7	16.4	5,989	246,733
Finance and insurance	52	43,136	1,696	6,887	3.9	16.0	20,442	4,204	3,877	9.7	9.0	18,881	3,898,480
Real estate and rental and leasing	53	35,945	1,259	3,565	3.5	9.9	341	1,509	2,816	4.2	7.8	1,208	244,775
Professional, scientific, and technical services	54	135,556	12,029	17,230	8.9	12.7	44,709	16,031	13,043	11.8	9.6	47,803	1,612,978
Architectural, engineering, and related services	5413	23,099	2,406	3,832	10.4	16.6	7,928	3,100	3,052	13.4	13.2	11,176	299,421
Computer systems design and related services	5415	16,546	4,238	3,331	25.6	20.1	12,661	5,200	2,348	31.4	14.2	8,986	347,987
Scientific R&D services	5417	2,196	601	235	27.4	10.7	16,239	414	382	18.8	17.4	12,019	115,539
Biotechnology R&D	541711	679	156	96	22.9	14.2	264	163	76	24.1	11.2	148	15,410
Physical, engineering, and life sciences (except biotechnology) R&D	541712	1,361	424	112	31.2	8.2	15,921	226	285	16.6	21.0	11,832	74,075
Social sciences and humanities R&D	541720	156	21	26	13.3	16.8	54	24	20	15.6	13.0	39	26,054
Other professional, scientific, and technical services	other 54	93,715	4,784	9,833	5.1	10.5	7,882	7,317	7,262	7.8	7.7	15,623	850,031
Health care services	621–623	158,498	7,331	28,516	4.6	18.0	8,059	14,285	21,556	9.0	13.6	3,563	775,694
Other nonmanufacturing	55, 56, 624, 71, 72, 81	324,673	11,800	50,999	3.6	15.7	35,025	22,854	40,597	7.0	12.5	13,053	1,307,638

TABLE 130. R&D-active and non-R&D-active companies in the United States that introduced new or significantly improved goods or services and the sales attributable to the new or improved goods or services, by industry and company size: 2008–10

Industry	NAICS code	Companies (number)	New or significantly improved goods or services										Sales from goods and services that were unchanged or only marginally changed (US\$millions) <sup>b</sup>
			New to the market <sup>a</sup>					New to the company <sup>a</sup>					
			Companies (number)		Companies (%)		Sales (US\$millions)	Companies (number)		Companies (%)		Sales (US\$millions)	
			Yes	No	Yes	No		Yes	No	Yes	No		
All companies (number of employees)	–	1,231,009	72,882	190,928	5.9	15.5	828,998	108,000	152,268	8.8	12.4	770,240	25,947,261
Small companies (number of employees) <sup>c</sup>													
5–499	–	1,221,832	71,696	189,659	5.9	15.5	133,292	106,513	151,326	8.7	12.4	150,920	9,332,957
5–99	–	1,169,111	66,668	183,336	5.7	15.7	74,896	100,161	146,701	8.6	12.5	84,541	6,174,436
5–49	–	1,092,859	60,852	172,750	5.6	15.8	49,331	92,103	138,349	8.4	12.7	63,495	4,533,280
5–9	–	487,889	22,444	78,977	4.6	16.2	9,094	34,193	66,452	7.0	13.6	9,239	689,453
10–24	–	445,712	28,334	69,489	6.4	15.6	21,771	41,168	54,957	9.2	12.3	27,208	2,751,271
25–49	–	159,259	10,073	24,284	6.3	15.2	18,467	16,743	16,940	10.5	10.6	27,048	1,092,556
50–99	–	76,253	5,817	10,586	7.6	13.9	25,565	8,058	8,351	10.6	11.0	21,046	1,641,156
100–249	–	40,254	3,923	4,146	9.7	10.3	35,492	4,228	3,581	10.5	8.9	36,087	1,801,826
250–499	–	12,467	1,105	2,177	8.9	17.5	22,904	2,124	1,044	17.0	8.4	30,292	1,356,694
Medium and large companies (number of employees)													
500–999	–	4,322	468	723	10.8	16.7	26,933	719	464	16.6	10.7	25,947	1,212,680
1,000–4,999	–	3,920	504	355	12.9	9.0	125,119	545	298	13.9	7.6	99,124	3,453,719
5,000–9,999	–	444	87	146	19.7	32.9	58,475	87	144	19.7	32.4	45,934	2,315,885
10,000–24,999	–	294	67	29	22.7	9.9	159,597	76	20	25.8	6.8	95,344	3,283,123
25,000 or more	–	198	60	17	30.3	8.6	325,584	59	17	29.8	8.6	352,970	6,348,897

D = data withheld to avoid disclosing operations of individual companies.

NAICS = 2007 North American Industry Classification System.

<sup>a</sup> Estimates are for companies that responded "yes" to at least one of two questions: "Did your company introduce new or significantly improved products during the last three years?" and "Did your company introduce new or significantly improved services during the last three years?" No item imputation was performed for these estimates. Therefore percentages do not add to 100%, and detail does not add to total.

<sup>b</sup> Includes resale of new goods or services purchased from other companies.

<sup>c</sup> 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.