

TABLE 23

Process innovation in companies, by industry: 2015–17

(Number and percent)

Industry	NAICS code	Companies (number)	Process innovation			
			Number		Percent	
			Yes	No	Yes	No
All industries	11, 21–23, 31–33, 42–81	4,603,606	752,895	3,850,711	16.4	83.6
Manufacturing industries	31–33	220,930	75,816	145,114	34.3	65.7
Food	311	18,180	5,795	12,384	31.9	68.1
Beverage and tobacco products	312	6,724	2,570	4,154	38.2	61.8
Textile, apparel, and leather products	313–16	10,569	3,038	7,531	28.7	71.3
Wood products	321	10,850	3,188	7,663	29.4	70.6
Paper	322	2,276	831	1,445	36.5	63.5
Printing and related support activities	323	21,903	6,897	15,006	31.5	68.5
Petroleum and coal products	324	624	188	435	30.2	69.8
Chemicals	325	7,910	3,053	4,857	38.6	61.4
Pesticide, fertilizer, and other agricultural chemicals	3253	542	170	373	31.3	68.7
Pharmaceuticals and medicines	3254	1,412	654	758	46.3	53.7
Soap, cleaning compound, and toilet preparation	3256	1,615	592	1,022	36.7	63.3
Other chemicals	other 325	4,341	1,637	2,704	37.7	62.3
Plastics and rubber products	326	8,412	3,275	5,138	38.9	61.1
Nonmetallic mineral products	327	8,021	2,393	5,628	29.8	70.2
Primary metals	331	2,679	970	1,708	36.2	63.8
Fabricated metal products	332	47,340	16,472	30,869	34.8	65.2
Machinery	333	18,792	7,049	11,743	37.5	62.5
Computer and electronic products	334	9,566	3,723	5,843	38.9	61.1
Communications equipment	3342	916	339	577	37.0	63.0
Semiconductor and other electronic components	3344	3,214	1,365	1,849	42.5	57.5
Navigational, measuring, electromedical, and control instruments	3345	3,958	1,495	2,463	37.8	62.2
Other computer and electronic products	other 334	1,478	524	954	35.4	64.6
Electrical equipment, appliances, and components	335	4,223	1,586	2,637	37.6	62.4
Transportation equipment	336	8,039	2,917	5,122	36.3	63.7
Automobiles, bodies, trailers, and parts	3361–63	5,018	1,933	3,085	38.5	61.5
Aerospace products and parts	3364	1,109	424	685	38.2	61.8
Other transportation	other 336	1,912	560	1,352	29.3	70.7
Furniture and related products	337	12,430	3,920	8,510	31.5	68.5
Miscellaneous	339	22,315	7,933	14,383	35.5	64.5
Medical equipment and supplies	3391	8,202	2,937	5,265	35.8	64.2
Other miscellaneous manufacturing	3399	14,113	4,995	9,118	35.4	64.6
Nonmanufacturing industries	11, 21–23, 42–81	4,382,677	677,080	3,705,597	15.4	84.6
Agriculture, forestry, fishing, and hunting	11	21,054	2,816	18,238	13.4	86.6
Mining, extraction, and support activities	21	15,546	1,791	13,754	11.5	88.5
Utilities	22	2,534	455	2,079	18.0	82.0
Construction	23	607,403	75,436	531,967	12.4	87.6
Wholesale trade	42	252,134	59,093	193,041	23.4	76.6
Retail trade	44–45	545,440	81,259	464,181	14.9	85.1
Transportation and warehousing	48–49	144,404	38,696	105,708	26.8	73.2
Information	51	56,053	14,796	41,257	26.4	73.6
Publishing	511	17,031	4,920	12,111	28.9	71.1
Newspaper, periodical, book, and directory publishers	5111	9,593	2,195	7,398	22.9	77.1
Software publishers	5112	7,438	2,725	4,713	36.6	63.4
Telecommunications	517	6,045	1,695	4,351	28.0	72.0
Data processing, hosting, and related services	518	8,414	3,050	5,364	36.3	63.7
Other information	other 51	24,563	5,132	19,431	20.9	79.1

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Finance and insurance	52	192,345	31,209	161,136	16.2	83.8
Real estate and rental and leasing	53	229,923	26,507	203,417	11.5	88.5
Lessors of nonfinancial intangible assets (except copyrighted works)	533	1,701	266	1,435	15.6	84.4
Other real estate and rental and leasing	other 53	228,222	26,241	201,982	11.5	88.5
Professional, scientific, and technical services	54	639,985	127,072	512,913	19.9	80.1
Legal services	5411	146,441	16,221	130,221	11.1	88.9
Accounting, tax preparation, bookkeeping, and payroll services	5412	99,782	19,545	80,236	19.6	80.4
Architectural, engineering, and related services	5413	83,492	16,486	67,005	19.7	80.3
Specialized design services	5414	25,140	4,747	20,394	18.9	81.1
Computer systems design and related services	5415	90,056	31,432	58,624	34.9	65.1
Management, scientific, and technical consulting services	5416	109,247	23,328	85,918	21.4	78.6
Scientific research and development services	5417	9,293	2,319	6,974	25.0	75.0
Advertising, public relations, and related services	5418	25,626	4,944	20,682	19.3	80.7
Other professional, scientific, and technical services	5419	50,907	8,049	42,859	15.8	84.2
Management of companies and enterprises	55	2,276	205	2,071	9.0	91.0
Administrative and support and waste management and remediation services	56	266,751	42,861	223,890	16.1	83.9
Educational services	61	51,288	9,300	41,988	18.1	81.9
Health care and social assistance	62	509,529	65,473	444,056	12.8	87.2
Health care services	621–23	447,069	58,380	388,689	13.1	86.9
Social assistance	624	62,461	7,093	55,368	11.4	88.6
Arts, entertainment, and recreation	71	74,256	9,045	65,211	12.2	87.8
Accommodation and food services	72	441,426	50,080	391,346	11.3	88.7
Other services	81	330,331	40,986	289,345	12.4	87.6

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding. Industry classification is based on the dominant establishment payroll. Statistics are representative of companies located in the United States.

Source(s):

National Center for Science and Engineering Statistics and U.S. Census Bureau, Annual Business Survey, 2017.