

TABLE 47

**Companies that reported business process innovation, by industry and innovation R&D activity: 2017–19**

(Number and percent)

Industry	NAICS code	Companies (number)	Innovation R&D activity			
			Number		Percent	
			Yes	No	Yes	No
All industries	11, 21–23, 31–33, 42–81	1,053,189	277,781	775,408	26.4	73.6
Manufacturing industries	31–33	63,505	29,422	34,083	46.3	53.7
Food	311	5,461	2,284	3,177	41.8	58.2
Beverage and tobacco products	312	3,042	1,456	1,586	47.9	52.1
Textile, apparel, and leather products	313–16	2,896	1,269	1,627	43.8	56.2
Wood products	321	2,323	768	1,555	33.1	66.9
Paper	322	452	232	220	51.3	48.7
Printing and related support activities	323	5,534	1,359	4,175	24.6	75.4
Petroleum and coal products	324	61	31	30	50.8	49.2
Chemicals	325	2,702	1,699	1,003	62.9	37.1
Pesticide, fertilizer, and other agricultural chemical	3253	181	75	106	41.4	58.6
Pharmaceuticals and medicines	3254	565	446	119	78.9	21.1
Soap, cleaning compound, and toilet preparation	3256	664	399	265	60.1	39.9
Other chemicals	other 325	1,290	781	509	60.5	39.5
Plastics and rubber products	326	2,504	1,389	1,115	55.5	44.5
Nonmetallic mineral products	327	2,087	779	1,308	37.3	62.7
Primary metals	331	724	402	322	55.5	44.5
Fabricated metal products	332	13,325	5,836	7,489	43.8	56.2
Machinery	333	6,506	3,596	2,910	55.3	44.7
Computer and electronic products	334	3,695	2,693	1,002	72.9	27.1
Communications equipment	3342	429	331	98	77.2	22.8
Semiconductor and other electronic components	3344	1,181	725	456	61.4	38.6
Navigational, measuring, electromedical, and control instruments	3345	1,494	1,149	345	76.9	23.1
Other computer and electronic products	other 334	589	486	103	82.5	17.5
Electrical equipment, appliances, and components	335	1,377	952	425	69.1	30.9
Transportation equipment	336	2,223	1,228	995	55.2	44.8
Automobiles, bodies, trailers, and parts	3361–63	1,286	799	487	62.1	37.9
Aerospace products and parts	3364	411	218	193	53.0	47.0
Other transportation	other 336	526	211	315	40.1	59.9
Furniture and related products	337	3,001	1,086	1,915	36.2	63.8
Miscellaneous	339	5,566	2,343	3,223	42.1	57.9
Medical equipment and supplies	3391	2,185	910	1,275	41.6	58.4
Other miscellaneous manufacturing	3399	3,381	1,435	1,946	42.4	57.6
Nonmanufacturing industries	11, 21–23, 42–81	989,685	248,361	741,324	25.1	74.9
Agriculture, forestry, fishing, and hunting	11	3,387	881	2,506	26.0	74.0
Mining, extraction, and support activities	21	1,809	481	1,328	26.6	73.4
Utilities	22	491	116	375	23.6	76.4
Construction	23	96,358	20,163	76,195	20.9	79.1
Wholesale trade	42	72,797	21,105	51,692	29.0	71.0
Retail trade	44–45	126,129	27,597	98,532	21.9	78.1
Transportation and warehousing	48–49	39,006	4,867	34,139	12.5	87.5
Information	51	19,978	9,578	10,400	47.9	52.1
Publishing	511	7,242	4,061	3,181	56.1	43.9
Newspaper, periodical, book, and directory publishers	5111	2,974	778	2,196	26.2	73.8
Software publishers	5112	4,267	3,282	985	76.9	23.1
Telecommunications	517	1,881	563	1,318	29.9	70.1

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			Yes	No	Yes	No
Data processing, hosting, and related services	518	3,500	1,952	1,548	55.8	44.2
Other information	other 51	7,356	3,004	4,352	40.8	59.2
Finance and insurance	52	45,335	11,100	34,235	24.5	75.5
Real estate and rental and leasing	53	47,687	8,896	38,791	18.7	81.3
Lessors of nonfinancial intangible assets (except copyrighted works)	533	533	246	r 287	46.2	53.8
Other real estate and rental and leasing	other 53	47,155	8,652	38,503	18.3	81.7
Professional, scientific, and technical services	54	180,469	64,686	115,783	35.8	64.2
Legal services	5411	23,761	5,071	18,690	21.3	78.7
Accounting, tax preparation, bookkeeping, and payroll services	5412	20,091	2,885	17,206	14.4	85.6
Architectural, engineering, and related services	5413	23,298	9,332	13,966	40.1	59.9
Specialized design services	5414	7,625	2,930	4,695	38.4	61.6
Computer systems design and related services	5415	38,592	19,334	19,258	50.1	49.9
Management, scientific, and technical consulting services	5416	41,725	14,897	26,828	35.7	64.3
Scientific research and development services	5417	3,869	3,404	465	88.0	12.0
Advertising, public relations, and related services	5418	7,648	2,545	5,103	33.3	66.7
Other professional, scientific, and technical services	5419	13,861	4,291	9,570	31.0	69.0
Management of companies and enterprises	55	420	89	r 331	21.2	r 78.8
Administrative and support and waste management and remediation services	56	53,843	11,214	42,629	20.8	79.2
Educational services	61	14,858	5,181	9,677	34.9	65.1
Health care and social assistance	62	108,980	24,967	84,013	22.9	77.1
Health care services	621–23	95,363	21,770	73,593	22.8	77.2
Social assistance	624	13,616	3,198	10,418	23.5	76.5
Arts, entertainment, and recreation	71	16,516	4,749	11,767	28.8	71.2
Accommodation and food services	72	99,443	19,821	79,622	19.9	80.1
Other services	81	62,179	12,875	49,304	20.7	79.3

r = relative standard error &gt; 50%.

NAICS = 2017 North American Industry Classification System.

**Note(s):**

Detail may not add to total because of rounding. Innovation R&amp;D activity is based on unedited company responses to innovation questions, not R&amp;D expenditures. Statistics are representative of companies located in the United States.

**Source(s):**

National Center for Science and Engineering Statistics and Census Bureau, 2020 Annual Business Survey: Data Year 2019.