

TABLE 51

## Companies that reported product or business process innovation, by industry and innovation R&amp;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	1,230,217	300,469	929,748	24.4	75.6
Manufacturing industries	31–33	73,787	33,093	40,694	44.8	55.2
Food	311	6,305	2,489	3,816	39.5	60.5
Beverage and tobacco products	312	3,544	1,553	1,991	43.8	56.2
Textile, apparel, and leather products	313–16	3,393	1,446	1,947	42.6	57.4
Wood products	321	2,625	900	1,725	34.3	65.7
Paper	322	577	240	337	41.6	58.4
Printing and related support activities	323	6,592	1,474	5,118	22.4	77.6
Petroleum and coal products	324	62	32	30	51.6	48.4
Chemicals	325	3,197	2,019	1,178	63.2	36.8
Pesticide, fertilizer, and other agricultural chemical	3253	198	79	119	39.9	60.1
Pharmaceuticals and medicines	3254	671	506	165	75.4	24.6
Soap, cleaning compound, and toilet preparation	3256	774	470	304	60.7	39.3
Other chemicals	other 325	1,553	965	588	62.1	37.9
Plastics and rubber products	326	2,835	1,557	1,278	54.9	45.1
Nonmetallic mineral products	327	2,354	866	1,488	36.8	63.2
Primary metals	331	812	419	393	51.6	48.4
Fabricated metal products	332	14,896	6,307	8,589	42.3	57.7
Machinery	333	7,551	4,141	3,410	54.8	45.2
Computer and electronic products	334	4,521	3,218	1,303	71.2	28.8
Communications equipment	3342	529	396	133	74.9	25.1
Semiconductor and other electronic components	3344	1,315	812	503	61.7	38.3
Navigational, measuring, electromedical, and control instruments	3345	1,992	1,472	520	73.9	26.1
Other computer and electronic products	other 334	683	537	146	78.6	21.4
Electrical equipment, appliances, and components	335	1,725	1,109	616	64.3	35.7
Transportation equipment	336	2,668	1,389	1,279	52.1	47.9
Automobiles, bodies, trailers, and parts	3361–63	1,542	875	667	56.7	43.3
Aerospace products and parts	3364	483	273	210	56.5	43.5
Other transportation	other 336	643	241	402	37.5	62.5
Furniture and related products	337	3,433	1,115	2,318	32.5	67.5
Miscellaneous	339	6,669	2,794	3,875	41.9	58.1
Medical equipment and supplies	3391	2,769	1,246	1,523	45.0	55.0
Other miscellaneous manufacturing	3399	3,900	1,548	2,352	39.7	60.3
Nonmanufacturing industries	11, 21–23, 42–81	1,156,431	267,378	889,053	23.1	76.9
Agriculture, forestry, fishing, and hunting	11	3,966	934	3,032	23.6	76.4
Mining, extraction, and support activities	21	1,909	506	1,403	26.5	73.5
Utilities	22	544	117	427	21.5	78.5
Construction	23	112,914	21,385	91,529	18.9	81.1
Wholesale trade	42	87,276	23,747	63,529	27.2	72.8
Retail trade	44–45	149,493	29,866	119,627	20.0	80.0
Transportation and warehousing	48–49	41,887	5,002	36,885	11.9	88.1
Information	51	24,216	10,808	13,408	44.6	55.4
Publishing	511	8,631	4,704	3,927	54.5	45.5
Newspaper, periodical, book, and directory publishers	5111	3,519	924	2,595	26.3	73.7
Software publishers	5112	5,111	3,779	1,332	73.9	26.1
Telecommunications	517	2,344	652	1,692	27.8	72.2

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Industry	NAICS code	Companies (number)	Innovation R&D activity			
			Number		Percent	
			Yes	No	Yes	No
Data processing, hosting, and related services	518	4,001	2,212	1,789	55.3	44.7
Other information	other 51	9,239	3,243	5,996	35.1	64.9
Finance and insurance	52	53,146	11,761	41,385	22.1	77.9
Real estate and rental and leasing	53	53,570	9,121	44,449	17.0	83.0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	576	246	r 330	42.7	57.3
Other real estate and rental and leasing	other 53	52,994	8,876	44,118	16.7	83.3
Professional, scientific, and technical services	54	203,986	69,584	134,402	34.1	65.9
Legal services	5411	26,259	5,487	20,772	20.9	79.1
Accounting, tax preparation, bookkeeping, and payroll services	5412	22,029	2,988	19,041	13.6	86.4
Architectural, engineering, and related services	5413	26,259	9,917	16,342	37.8	62.2
Specialized design services	5414	8,766	3,125	5,641	35.6	64.4
Computer systems design and related services	5415	42,874	20,809	22,065	48.5	51.5
Management, scientific, and technical consulting services	5416	46,845	16,022	30,823	34.2	65.8
Scientific research and development services	5417	4,500	3,897	603	86.6	13.4
Advertising, public relations, and related services	5418	8,649	2,678	5,971	31.0	69.0
Other professional, scientific, and technical services	5419	17,806	4,663	13,143	26.2	73.8
Management of companies and enterprises	55	502	170	r 332	33.9	66.1
Administrative and support and waste management and remediation services	56	63,850	11,583	52,267	18.1	81.9
Educational services	61	18,322	5,860	12,462	32.0	68.0
Health care and social assistance	62	129,826	26,908	102,918	20.7	79.3
Health care services	621–23	113,102	23,353	89,749	20.6	79.4
Social assistance	624	16,723	3,555	13,168	21.3	78.7
Arts, entertainment, and recreation	71	20,637	5,276	15,361	25.6	74.4
Accommodation and food services	72	112,889	20,558	92,331	18.2	81.8
Other services	81	77,506	14,198	63,308	18.3	81.7

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.