

Table 2**Innovating companies, by industry: 2015–17, 2016–18, and 2017–19**

(Percent)

Industry and company size	NAICS code	2015–17		2016–18		2017–19	
		Yes	No	Yes	No	Yes	No
Industry							
All industries	11, 21–23, 31–33, 42–81	43.2	56.8	29.7	70.3	25.3	74.7
Manufacturing industries	31–33	57.9	42.1	35.5	64.5	34.0	66.0
Food	311	60.5	39.5	40.0	60.0	34.3	65.7
Beverage and tobacco products	312	74.5	25.5	45.9	54.1	42.3	57.7
Textile, apparel, and leather products	313–16	52.7	47.3	33.1	66.9	33.2	66.8
Wood products	321	49.4	50.6	25.4	74.6	25.4	74.6
Paper	322	61.9	38.1	37.5	62.5	32.1	67.9
Printing and related support activities	323	53.0	47.0	32.4	67.6	31.3	68.7
Petroleum and coal products	324	57.6	42.4	30.4	69.6	8.9	91.1
Chemicals	325	67.4	32.6	41.0	59.0	41.2	58.8
Pesticide, fertilizer, and other agricultural chemicals	3253	62.4	37.6	39.3	60.7	35.7	64.3
Pharmaceuticals and medicines	3254	69.8	30.2	52.1	47.9	45.7	54.3
Soap, cleaning compound, and toilet preparation	3256	70.6	29.4	41.1	58.9	43.7	56.3
Other chemicals	other 325	66.1	33.9	37.4	62.6	39.2	60.8
Plastics and rubber products	326	61.3	38.7	42.3	57.7	36.3	63.7
Nonmetallic mineral products	327	51.0	49.0	30.0	70.0	30.3	69.7
Primary metals	331	55.9	44.1	34.3	65.7	33.3	66.7
Fabricated metal products	332	53.6	46.4	31.0	69.0	30.7	69.3
Machinery	333	61.6	38.4	39.1	60.9	41.1	58.9
Computer and electronic products	334	71.9	28.1	48.3	51.7	51.1	48.9
Communications equipment	3342	77.1	22.9	53.1	46.9	56.4	43.6
Semiconductor and other electronic components	3344	66.6	33.4	46.0	54.0	45.1	54.9
Navigational, measuring, electromedical, and control instruments	3345	73.9	26.1	49.9	50.1	54.6	45.4
Other computer and electronic products	other 334	75.0	25.0	45.1	54.9	50.6	49.4
Electrical equipment, appliances, and components	335	65.1	34.9	43.6	56.4	44.5	55.5
Transportation equipment	336	62.4	37.6	34.1	65.9	34.9	65.1
Automobiles, bodies, trailers, and parts	3361–63	63.7	36.3	33.5	66.5	32.6	67.4
Aerospace products and parts	3364	65.2	34.8	37.6	62.4	43.9	56.1
Other transportation	other 336	57.6	42.4	33.8	66.2	35.5	64.5
Furniture and related products	337	52.2	47.8	29.6	70.4	26.6	73.4
Miscellaneous	339	59.8	40.2	39.6	60.4	32.9	67.1
Medical equipment and supplies	3391	57.6	42.4	39.7	60.3	34.6	65.4
Other miscellaneous manufacturing	3399	61.1	38.9	39.6	60.4	31.9	68.1
Nonmanufacturing industries	11, 21–23, 42–81	42.5	57.5	29.5	70.5	24.9	75.1
Agriculture, forestry, fishing, and hunting	11	31.5	68.5	20.9	79.1	17.4	82.6
Mining, extraction, and support activities	21	26.0	74.0	16.5	83.5	12.3	87.7
Utilities	22	38.0	62.0	23.4	76.6	20.8	79.2
Construction	23	34.8	65.2	21.2	78.8	18.0	82.0
Wholesale trade	42	50.3	49.7	33.7	66.3	34.4	65.6
Retail trade	44–45	44.9	55.1	30.4	69.6	27.0	73.0
Transportation and warehousing	48–49	43.0	57.0	27.6	72.4	26.6	73.4
Information	51	60.8	39.2	39.5	60.5	38.5	61.5
Publishing	511	66.0	34.0	42.2	57.8	46.6	53.4
Newspaper, periodical, book, and directory publishers	5111	56.3	43.7	31.4	68.6	35.8	64.2
Software publishers	5112	78.6	21.4	55.6	44.4	58.8	41.2
Telecommunications	517	58.7	41.3	36.5	63.5	33.9	66.1

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Industry and company size	NAICS code	2015–17		2016–18		2017–19	
		Yes	No	Yes	No	Yes	No
Data processing, hosting, and related services	518	69.7	30.3	46.0	54.0	49.1	50.9
Other information	other 51	54.6	45.4	36.6	63.4	31.6	68.4
Finance and insurance	52	46.1	53.9	37.0	63.0	26.1	73.9
Real estate and rental and leasing	53	36.0	64.0	26.1	73.9	20.1	79.9
Lessors of nonfinancial intangible assets (except copyrighted works)	533	52.4	47.6	22.6	77.4	27.4	72.6
Other real estate and rental and leasing	other 53	35.9	64.1	26.1	73.9	20.1	79.9
Professional, scientific, and technical services	54	46.0	54.0	34.5	65.5	29.0	71.0
Legal services	5411	33.1	66.9	24.2	75.8	17.3	82.7
Accounting, tax preparation, bookkeeping, and payroll services	5412	36.5	63.5	30.9	69.1	20.7	79.3
Architectural, engineering, and related services	5413	47.3	52.7	33.6	66.4	29.9	70.1
Specialized design services	5414	55.8	44.2	32.5	67.5	32.0	68.0
Computer systems design and related services	5415	60.2	39.8	47.2	52.8	43.8	56.2
Management, scientific, and technical consulting services	5416	51.6	48.4	40.3	59.7	34.0	66.0
Scientific research and development services	5417	61.6	38.4	40.8	59.2	42.8	57.2
Advertising, public relations, and related services	5418	55.9	44.1	37.4	62.6	31.8	68.2
Other professional, scientific, and technical services	5419	50.2	49.8	34.3	65.7	31.1	68.9
Management of companies and enterprises	55	31.2	68.8	20.8	79.2	21.0	79.0
Administrative and support and waste management and remediation services	56	41.8	58.2	29.1	70.9	22.4	77.6
Educational services	61	58.1	41.9	41.3	58.7	33.1	66.9
Health care and social assistance	62	43.0	57.0	30.5	69.5	24.6	75.4
Health care services	621–23	42.9	57.1	29.8	70.2	24.5	75.5
Social assistance	624	44.0	56.0	36.1	63.9	25.9	74.1
Arts, entertainment, and recreation	71	45.5	54.5	29.7	70.3	22.9	77.1
Accommodation and food services	72	41.1	58.9	28.1	71.9	24.3	75.7
Other services	81	38.9	61.1	26.2	73.8	22.4	77.6
Employment size							
All companies	na	43.2	56.8	29.7	70.3	25.3	74.7
Microbusinesses							
1–4	na	38.5	61.5	27.9	72.1	22.1	77.9
5–9	na	46.4	53.6	31.6	68.4	27.4	72.6
Small businesses							
10–19	na	49.9	50.1	32.0	68.0	30.1	69.9
20–49	na	52.0	48.0	32.1	67.9	30.8	69.2
Medium businesses							
50–99	na	56.2	43.8	32.7	67.3	32.0	68.0
100–249	na	57.6	42.4	33.0	67.0	31.6	68.4
Large businesses							
250–499	na	60.6	39.4	34.2	65.8	35.1	64.9
500–999	na	58.1	41.9	34.3	65.7	32.5	67.5
1,000–4,999	na	61.8	38.2	39.4	60.6	37.8	62.2
5,000–9,999	na	72.6	27.4	43.1	56.9	45.0	55.0
10,000–24,999	na	66.5	33.5	45.1	54.9	51.0	49.0
25,000 or more	na	71.0	29.0	46.4	53.6	r 49.9	50.1

na = not applicable; r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. Industry classification based on dominant establishment payroll. Statistics are representative of companies located in the United States.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, 2020, 2019, and 2018 Annual Business Survey.