

TABLE CET-15

Companies performing or funding communication and networking technologies R&D, by industry: 2021

(Number and percent)

Industry	NAICS code	Companies (number)	Communication and networking technologies			
			Number		Percent	
			Yes	No	Yes	No
All industries	11, 21–23, 31–33, 42–81	4,874,928	54,405	4,820,523	1.1	98.9
Manufacturing industries	31–33	209,282	3,664	205,618	1.8	98.2
Food	311	19,326	138	19,188	0.7	99.3
Beverage and tobacco products	312	9,354	30	9,324	0.3	99.7
Textile, apparel, and leather products	313–16	9,443	70	9,373	0.7	99.3
Wood products	321	9,546	86	9,460	0.9	99.1
Paper	322	1,500	5	1,495	0.4	99.6
Printing and related support activities	323	20,212	217	19,995	1.1	98.9
Petroleum and coal products	324	546	4	542	0.8	99.2
Chemicals	325	7,961	80	7,881	1.0	99.0
Pesticide, fertilizer, and other agricultural chemicals	3253	580	12 r	568	2.1 r	97.9
Pharmaceuticals and medicines	3254	1,536	12	1,524	0.7 r	99.3
Soap, cleaning compound, and toilet preparation	3256	1,652	9	1,643	0.6 r	99.4
Other chemicals	other 325	4,194	48	4,146	1.1	98.9
Plastics and rubber products	326	7,060	107	6,953	1.5	98.5
Nonmetallic mineral products	327	7,290	68	7,222	0.9	99.1
Primary metals	331	2,079	17	2,062	0.8 r	99.2
Fabricated metal products	332	46,128	612	45,516	1.3	98.7
Machinery	333	16,440	337	16,103	2.1	97.9
Computer and electronic products	334	8,527	1,233	7,294	14.5	85.5
Communications equipment	3342	850	373	477	43.9	56.1
Semiconductor and other electronic components	3344	2,711	315	2,396	11.6	88.4
Navigational, measuring, electromedical, and control instruments	3345	3,737	436	3,301	11.7	88.3
Other computer and electronic products	other 334	1,230	111	1,119	9.1	90.9
Electrical equipment, appliances, and components	335	3,925	267	3,658	6.8	93.2
Transportation equipment	336	7,325	168	7,157	2.3	97.7
Automobiles, bodies, trailers, and parts	3361–63	4,494	101	4,393	2.2	97.8
Aerospace products and parts	3364	1,044	28	1,016	2.7	97.3
Other transportation	other 336	1,787	41	1,746	2.3	97.7
Furniture and related products	337	12,060	53	12,007	0.4 r	99.6
Miscellaneous	339	20,536	158	20,378	0.8	99.2
Medical equipment and supplies	3391	7,602	48	7,554	0.6 r	99.4
Other miscellaneous manufacturing	3399	12,933	109	12,824	0.8	99.2
Nonmanufacturing industries	11, 21–23, 42–81	4,665,645	50,741	4,614,904	1.1	98.9
Agriculture, forestry, fishing, and hunting	11	19,567	99 r	19,468	0.5 r	99.5
Mining, extraction, and support activities	21	14,004	43	13,961	0.3	99.7
Utilities	22	2,994	39	2,955	1.3	98.7
Construction	23	635,568	4,719	630,849	0.7	99.3
Wholesale trade	42	241,440	3,846	237,594	1.6	98.4
Retail trade	44–45	546,067	3,969	542,098	0.7	99.3
Transportation and warehousing	48–49	165,454	1,727	163,727	1.0	99.0
Information	51	65,445	2,299	63,146	3.5	96.5
Publishing	511	17,755	604	17,151	3.4	96.6
Newspaper, periodical, book, and directory publishers	5111	9,162	94	9,068	1.0	99.0
Software publishers	5112	8,589	512	8,077	6.0	94.0
Telecommunications	517	7,319	715	6,604	9.8	90.2

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Data processing, hosting, and related services	518	8,346	436	7,910	5.2	94.8
Other information	other 51	32,027	552	31,475	1.7	98.3
Finance and insurance	52	198,128	2,428	195,700	1.2	98.8
Real estate and rental and leasing	53	283,276	1,834	281,442	0.6	99.4
Lessors of nonfinancial intangible assets (except copyrighted works)	533	1,956	46 r	1,910	2.4 r	97.6
Other real estate and rental and leasing	other 53	281,321	1,789	279,532	0.6	99.4
Professional, scientific, and technical services	54	717,229	14,668	702,561	2.0	98.0
Legal services	5411	152,543	1,012	151,531	0.7	99.3
Accounting, tax preparation, bookkeeping, and payroll services	5412	109,075	757	108,318	0.7	99.3
Architectural, engineering, and related services	5413	87,994	2,735	85,259	3.1	96.9
Specialized design services	5414	29,258	259	28,999	0.9	99.1
Computer systems design and related services	5415	100,282	6,050	94,232	6.0	94.0
Management, scientific, and technical consulting services	5416	144,421	2,339	142,082	1.6	98.4
Scientific research and development services	5417	11,149	463	10,686	4.2	95.8
Advertising, public relations, and related services	5418	28,236	427	27,809	1.5	98.5
Other professional, scientific, and technical services	5419	54,270	624	53,646	1.1	98.9
Management of companies and enterprises	55	3,153	0	3,153	0.0	100.0
Administrative and support and waste management and remediation services	56	293,539	2,529	291,010	0.9	99.1
Educational services	61	57,078	852	56,226	1.5	98.5
Health care and social assistance	62	536,276	5,104	531,172	1.0	99.0
Health care services	621-23	469,939	4,375	465,564	0.9	99.1
Social assistance	624	66,336	732	65,604	1.1	98.9
Arts, entertainment, and recreation	71	89,491	495	88,996	0.6	99.4
Accommodation and food services	72	455,071	3,576	451,495	0.8	99.2
Other services	81	341,869	2,336	339,533	0.7	99.3

r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail across rows may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. Detail across columns have been adjusted to add to total. Industry classification is 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, 2022 Annual Business Survey: Data Year 2021.