TABLE CET-5

Companies performing or funding artificial intelligence technology R&D, by industry: 2021
(Number and percent)

Industry	NAICS code	Companies (number)	Artificial intelligence Number Percent					
			Yes	No	Yes		No	
All industries	11, 21–23, 31–33, 42– 81	4,874,928	50,367	4,824,561	1.0		99.0	
Manufacturing industries	31-33	209,282	2,503	206,779	1.2		98.8	
Food	311	19,326	81	19,245	0.4	Н	99.6	
Beverage and tobacco products	312	9,354	36	9,318	0.4	Н	99.6	
Textile, apparel, and leather products	313-16	9,443	48	9,395	0.5	Н	99.5	
Wood products	321	9,546	38	r 9,508	0.4	r	99.6	
Paper	322	1,500	10	1,490	0.4	'	99.4	
Printing and related support activities	323	20,212	91	20,121	0.4	Н	99.6	
Petroleum and coal products	324	546	7	539	1.2	Н	98.8	
Chemicals	325	7,961	101	7,860	1.3		98.7	
Pesticide, fertilizer, and other agricultural chemicals	3253	580	9	571	1.6		98.4	
Pharmaceuticals and medicines	3254		36		2.3		97.7	
Soap, cleaning compound, and toilet preparation	3254	1,536 1,652	27	1,500 r 1,625	1.6	\vdash	97.7	
Other chemicals	other 325	4,194	30	4,164	0.7		99.3	
Plastics and rubber products	326	7,060	82	6,978	1.2	Н	99.3	
·	327		22		0.3		90.0	
Nonmetallic mineral products	331	7,290 2,079	32	7,268	1.5		99.7	
Primary metals				-	_	r	98.6	
Fabricated metal products	332	46,128	629	45,499 16.076	1.4		98.6	
Machinery	333	16,440	364	-,	2.2	Н		
Computer and electronic products	334	8,527	526	8,001	6.2	Н	93.8	
Communications equipment	3342	850	45	805	5.3		94.7	
Semiconductor and other electronic components	3344	2,711	128	2,583	4.7		95.3	
Navigational, measuring, electromedical, and control instruments	3345	3,737	264	3,473	7.1		92.9	
Other computer and electronic products	other 334	1,230	92	1,138	7.5		92.5	
Electrical equipment, appliances, and components	335	3,925	90	3,835	2.3		97.7	
Transportation equipment	336	7,325	98	7,227	1.3		98.7	
Automobiles, bodies, trailers, and parts	3361-63	4,494	65	4,429	1.4		98.6	
Aerospace products and parts	3364	1,044	21	1,023	2.0		98.0	
Other transportation	other 336	1,787	12	1,775	0.7	r	99.3	
Furniture and related products	337	12,060	99	r 11,961	0.8	r	99.2	
Miscellaneous	339	20,536	141	20,395	0.7		99.3	
Medical equipment and supplies	3391	7,602	50	7,552	0.7		99.3	
Other miscellaneous manufacturing	3399	12,933	89	12,844	0.7		99.3	
Nonmanufacturing industries	11, 21-23, 42-81	4,665,645	47,866	4,617,779	1.0		99.0	
Agriculture, forestry, fishing, and hunting	11	19,567	145	19,422	0.7		99.3	
Mining, extraction, and support activities	21	14,004	60	13,944	0.4		99.6	
Utilities	22	2,994	30	2,964	1.0		99.0	
Construction	23	635,568	2,639	632,929	0.4	П	99.6	
Wholesale trade	42	241,440	2,151	239,289	0.9		99.1	
Retail trade	44-45	546,067	3,563	542,504	0.7		99.3	
Transportation and warehousing	48-49	165,454	929	164,525	0.6	П	99.4	
Information	51	65,445	4,000	61,445	6.1	П	93.9	
Publishing	511	17,755	1,900	15,855	10.7	П	89.3	
Newspaper, periodical, book, and directory publishers	5111	9,162	111	9,051	1.2	П	98.8	
Software publishers	5112	8,589	1,793	6,796	20.9		79.1	
Telecommunications	517	7,319	134	7,185	1.8	Н	98.2	
Data processing, hosting, and related services	518	8,346	1,076	7,270	12.9	Н	87.1	

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(Number and percent)

Industry	NAICS code	Companies (number)	Artificial intelligence						
			Number			Perc		ent	
			Yes		No	Yes		No	
Other information	other 51	32,027	895		31,132	2.8		97.2	
Finance and insurance	52	198,128	2,437		195,691	1.2		98.8	
Real estate and rental and leasing	53	283,276	1,744		281,532	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	1,698		279,623	0.6	П	99.4	
Professional, scientific, and technical services	54	717,229	18,026		699,203	2.5		97.5	
Legal services	5411	152,543	689		151,854	0.5		99.5	
Accounting, tax preparation, bookkeeping, and payroll services	5412	109,075	639		108,436	0.6		99.4	
Architectural, engineering, and related services	5413	87,994	1,545		86,449	1.8		98.2	
Specialized design services	5414	29,258	253		29,005	0.9		99.1	
Computer systems design and related services	5415	100,282	8,912		91,370	8.9		91.1	
Management, scientific, and technical consulting services	5416	144,421	3,601		140,820	2.5		97.5	
Scientific research and development services	5417	11,149	1,043		10,106	9.4		90.6	
Advertising, public relations, and related services	5418	28,236	518		27,718	1.8		98.2	
Other professional, scientific, and technical services	5419	54,270	819		53,451	1.5		98.5	
Management of companies and enterprises	55	3,153	72	r	3,081	2.3	r	97.7	
Administrative and support and waste management and remediation services	56	293,539	1,866		291,673	0.6		99.4	
Educational services	61	57,078	620		56,458	1.1		98.9	
Health care and social assistance	62	536,276	4,660		531,616	0.9		99.1	
Health care services	621-23	469,939	3,968		465,971	0.8		99.2	
Social assistance	624	66,336	695		65,641	1.0		99.0	
Arts, entertainment, and recreation	71	89,491	246		89,245	0.3		99.7	
Accommodation and food services	72	455,071	2,704		452,367	0.6		99.4	
Other services	81	341,869	1,710		340,159	0.5		99.5	

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.