

TABLE CET-3

Companies performing or funding advanced sensing technology R&D, by industry: 2021

(Number and percent)

Industry	NAICS code	Companies (number)	Advanced sensing			
			Number		Percent	
			Yes	No	Yes	No
All industries	11, 21-23, 31-33, 42-81	4,874,928	38,542	4,836,386	0.8	99.2
Manufacturing industries	31-33	209,282	4,417	204,865	2.1	97.9
Food	311	19,326	143	19,183	0.7	r 99.3
Beverage and tobacco products	312	9,354	43	9,311	0.5	r 99.5
Textile, apparel, and leather products	313-16	9,443	74	9,369	0.8	99.2
Wood products	321	9,546	170	9,376	1.8	98.2
Paper	322	1,500	23	r 1,477	1.6	r 98.4
Printing and related support activities	323	20,212	108	20,104	0.5	99.5
Petroleum and coal products	324	546	10	536	1.8	98.2
Chemicals	325	7,961	182	7,779	2.3	97.7
Pesticide, fertilizer, and other agricultural chemicals	3253	580	3	r 577	0.5	r 99.5
Pharmaceuticals and medicines	3254	1,536	20	1,516	1.3	r 98.7
Soap, cleaning compound, and toilet preparation	3256	1,652	29	r 1,623	1.8	r 98.2
Other chemicals	other 325	4,194	132	4,062	3.1	r 96.9
Plastics and rubber products	326	7,060	213	6,847	3.0	97.0
Nonmetallic mineral products	327	7,290	87	7,203	1.2	98.8
Primary metals	331	2,079	40	2,039	1.9	98.1
Fabricated metal products	332	46,128	995	45,133	2.2	97.8
Machinery	333	16,440	624	15,816	3.8	96.2
Computer and electronic products	334	8,527	932	7,595	10.9	89.1
Communications equipment	3342	850	90	760	10.5	89.5
Semiconductor and other electronic components	3344	2,711	238	2,473	8.8	91.2
Navigational, measuring, electromedical, and control instruments	3345	3,737	526	3,211	14.1	85.9
Other computer and electronic products	other 334	1,230	82	1,148	6.6	93.4
Electrical equipment, appliances, and components	335	3,925	209	3,716	5.3	94.7
Transportation equipment	336	7,325	218	7,107	3.0	97.0
Automobiles, bodies, trailers, and parts	3361-63	4,494	161	4,333	3.6	96.4
Aerospace products and parts	3364	1,044	43	1,001	4.1	95.9
Other transportation	other 336	1,787	11	r 1,776	0.6	r 99.4
Furniture and related products	337	12,060	15	12,045	0.1	99.9
Miscellaneous	339	20,536	319	20,217	1.6	98.4
Medical equipment and supplies	3391	7,602	201	7,401	2.6	97.4
Other miscellaneous manufacturing	3399	12,933	119	12,814	0.9	99.1
Nonmanufacturing industries	11, 21-23, 42-81	4,665,645	34,127	4,631,518	0.7	99.3
Agriculture, forestry, fishing, and hunting	11	19,567	132	r 19,435	0.7	r 99.3
Mining, extraction, and support activities	21	14,004	72	13,932	0.5	99.5
Utilities	22	2,994	21	2,973	0.7	99.3
Construction	23	635,568	2,009	633,559	0.3	99.7
Wholesale trade	42	241,440	2,186	239,254	0.9	99.1
Retail trade	44-45	546,067	3,120	542,947	0.6	99.4
Transportation and warehousing	48-49	165,454	959	164,495	0.6	99.4
Information	51	65,445	1,344	64,101	2.1	97.9
Publishing	511	17,755	610	17,145	3.4	96.6
Newspaper, periodical, book, and directory publishers	5111	9,162	12	r 9,150	0.1	r 99.9
Software publishers	5112	8,589	600	7,989	7.0	93.0
Telecommunications	517	7,319	144	7,175	2.0	98.0
Data processing, hosting, and related services	518	8,346	362	7,984	4.3	95.7

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Other information	other 51	32,027	230	31,797	0.7	99.3
Finance and insurance	52	198,128	1,248	196,880	0.6	99.4
Real estate and rental and leasing	53	283,276	614	282,662	0.2	99.8
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	569	280,752	0.2	99.8
Professional, scientific, and technical services	54	717,229	10,968	706,261	1.5	98.5
Legal services	5411	152,543	274	152,269	0.2	99.8
Accounting, tax preparation, bookkeeping, and payroll services	5412	109,075	343	108,732	0.3	99.7
Architectural, engineering, and related services	5413	87,994	2,987	85,007	3.4	96.6
Specialized design services	5414	29,258	149	29,109	0.5	99.5
Computer systems design and related services	5415	100,282	3,608	96,674	3.6	96.4
Management, scientific, and technical consulting services	5416	144,421	1,944	142,477	1.3	98.7
Scientific research and development services	5417	11,149	1,008	10,141	9.0	91.0
Advertising, public relations, and related services	5418	28,236	107 r	28,129	0.4 r	99.6
Other professional, scientific, and technical services	5419	54,270	544	53,726	1.0	99.0
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	1,200	292,339	0.4	99.6
Educational services	61	57,078	239	56,839	0.4	99.6
Health care and social assistance	62	536,276	4,932	531,344	0.9	99.1
Health care services	621-23	469,939	4,427	465,512	0.9	99.1
Social assistance	624	66,336	503	65,833	0.8	99.2
Arts, entertainment, and recreation	71	89,491	67 r	89,424	0.1 r	99.9
Accommodation and food services	72	455,071	3,114	451,957	0.7	99.3
Other services	81	341,869	1,789	340,080	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.