

TABLE CET-19

## Companies performing or funding advanced semiconductors and microelectronics technology R&amp;D, by industry: 2021

(Number and percent)

Industry	NAICS code	Companies (number)	Advanced semiconductors and microelectronics			
			Number		Percent	
			Yes	No	Yes	No
All industries	11, 21–23, 31–33, 42–81	4,874,928	12,069	4,862,859	0.2	99.8
Manufacturing industries	31–33	209,282	1,751	207,531	0.8	99.2
Food	311	19,326	10	19,316	0.0	100.0
Beverage and tobacco products	312	9,354	0	9,354	0.0	100.0
Textile, apparel, and leather products	313–16	9,443	15	9,428	0.2	99.8
Wood products	321	9,546	11	9,535	0.1	99.9
Paper	322	1,500	2	1,498	0.1	99.9
Printing and related support activities	323	20,212	14	20,198	0.1	99.9
Petroleum and coal products	324	546	1	545	0.2	99.8
Chemicals	325	7,961	49	7,912	0.6	99.4
Pesticide, fertilizer, and other agricultural chemicals	3253	580	3	577	0.5	99.5
Pharmaceuticals and medicines	3254	1,536	5	1,531	0.3	99.7
Soap, cleaning compound, and toilet preparation	3256	1,652	2	1,650	0.1	99.9
Other chemicals	other 325	4,194	39	4,155	0.9	99.1
Plastics and rubber products	326	7,060	52	7,008	0.7	99.3
Nonmetallic mineral products	327	7,290	30	7,260	0.4	99.6
Primary metals	331	2,079	5	2,074	0.2	99.8
Fabricated metal products	332	46,128	226	45,902	0.5	99.5
Machinery	333	16,440	478	15,962	2.9	97.1
Computer and electronic products	334	8,527	454	8,073	5.3	94.7
Communications equipment	3342	850	37	813	4.4	95.6
Semiconductor and other electronic components	3344	2,711	255	2,456	9.4	90.6
Navigational, measuring, electromedical, and control instruments	3345	3,737	131	3,606	3.5	96.5
Other computer and electronic products	other 334	1,230	32	1,198	2.6	97.4
Electrical equipment, appliances, and components	335	3,925	211	3,714	5.4	94.6
Transportation equipment	336	7,325	98	7,227	1.3	98.7
Automobiles, bodies, trailers, and parts	3361–63	4,494	67	4,427	1.5	98.5
Aerospace products and parts	3364	1,044	10	1,034	1.0	99.0
Other transportation	other 336	1,787	21	1,766	1.2	98.8
Furniture and related products	337	12,060	9	12,051	0.1	99.9
Miscellaneous	339	20,536	75	20,461	0.4	99.6
Medical equipment and supplies	3391	7,602	25	7,577	0.3	99.7
Other miscellaneous manufacturing	3399	12,933	51	12,882	0.4	99.6
Nonmanufacturing industries	11, 21–23, 42–81	4,665,645	10,321	4,655,324	0.2	99.8
Agriculture, forestry, fishing, and hunting	11	19,567	2	19,565	0.0	100.0
Mining, extraction, and support activities	21	14,004	8	13,996	0.1	99.9
Utilities	22	2,994	4	2,990	0.1	99.9
Construction	23	635,568	718	634,850	0.1	99.9
Wholesale trade	42	241,440	1,040	240,400	0.4	99.6
Retail trade	44–45	546,067	1,305	544,762	0.2	99.8
Transportation and warehousing	48–49	165,454	235	165,219	0.1	99.9
Information	51	65,445	242	65,203	0.4	99.6
Publishing	511	17,755	53	17,702	0.3	99.7
Newspaper, periodical, book, and directory publishers	5111	9,162	34	9,128	0.4	99.6
Software publishers	5112	8,589	20	8,569	0.2	99.8
Telecommunications	517	7,319	61	7,258	0.8	99.2

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Industry	NAICS code	Companies (number)	Advanced semiconductors and microelectronics			
			Number		Percent	
			Yes	No	Yes	No
Data processing, hosting, and related services	518	8,346	75 r	8,271	0.9 r	99.1
Other information	other 51	32,027	54 r	31,973	0.2 r	99.8
Finance and insurance	52	198,128	187	197,941	0.1	99.9
Real estate and rental and leasing	53	283,276	407	282,869	0.1	99.9
Lessors of nonfinancial intangible assets (except copyrighted works)	533	1,956	0	1,956	0.0	100.0
Other real estate and rental and leasing	other 53	281,321	407	280,914	0.1	99.9
Professional, scientific, and technical services	54	717,229	2,289	714,940	0.3	99.7
Legal services	5411	152,543	145 r	152,398	0.1 r	99.9
Accounting, tax preparation, bookkeeping, and payroll services	5412	109,075	87 r	108,988	0.1 r	99.9
Architectural, engineering, and related services	5413	87,994	635	87,359	0.7	99.3
Specialized design services	5414	29,258	56 r	29,202	0.2 r	99.8
Computer systems design and related services	5415	100,282	380	99,902	0.4	99.6
Management, scientific, and technical consulting services	5416	144,421	456	143,965	0.3	99.7
Scientific research and development services	5417	11,149	398	10,751	3.6	96.4
Advertising, public relations, and related services	5418	28,236	37 r	28,199	0.1 r	99.9
Other professional, scientific, and technical services	5419	54,270	96 r	54,174	0.2 r	99.8
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	392	293,147	0.1	99.9
Educational services	61	57,078	4 r	57,074	0.0 r	100.0
Health care and social assistance	62	536,276	1,177	535,099	0.2	99.8
Health care services	621-23	469,939	1,027	468,912	0.2	99.8
Social assistance	624	66,336	151 r	66,185	0.2 r	99.8
Arts, entertainment, and recreation	71	89,491	43 r	89,448	0.0 r	100.0
Accommodation and food services	72	455,071	1,460	453,611	0.3	99.7
Other services	81	341,869	809	341,060	0.2	99.8

r = relative standard error &gt; 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.