

TABLE 59

Companies using select technologies, by company size: 2021

(Percent)

Technology	All companies	1–4 employees	5–9 employees	10–19 employees	20–49 employees	50–99 employees	100–249 employees	250–499 employees	500–999 employees	1,000–4,999 employees	5,000–9,999 employees	10,000–24,999 employees	25,000 or more employees	
Advanced computing	24.2	21.3	24.5	28.0	30.1	36.5	39.7	46.8	52.2	51.5	61.0	r	69.8	55.4
Advanced sensing	4.9	4.1	5.0	5.4	6.3	8.7	11.3	16.6	18.3	19.0	32.1	r	35.5	32.0
Artificial intelligence	4.6	4.1	4.6	5.0	4.9	6.6	9.0	13.2	15.3	19.7	33.8	r	42.1	35.2
Autonomous systems and robotics	2.3	1.8	2.2	2.6	3.1	5.3	6.3	10.4	11.3	15.3	23.6		31.4	26.6
Additive manufacturing	2.9	2.3	3.3	3.8	3.8	5.1	5.8	6.1	7.8	10.2	15.0		19.4	15.6
Biotechnology	1.3	1.2	1.5	1.6	1.1	1.7	1.4	1.5	1.7	2.2	10.0	r	7.6	6.2
Human-machine interfaces	1.9	1.8	1.9	2.0	1.7	2.2	2.7	3.1	2.7	5.7	9.5		15.5	15.3
Communication and networking technologies	8.5	7.0	8.3	10.2	11.8	15.9	19.5	22.7	25.0	29.1	33.6		38.4	38.4
Advanced financial technologies	3.2	2.7	3.3	3.7	3.9	5.5	6.4	9.3	8.1	11.3	16.2		19.8	20.7
Advanced semiconductors and microelectronics	1.5	1.3	1.6	1.8	1.9	2.8	2.9	3.9	3.9	r	5.9		10.0	11.4
Advanced engineering materials	1.8	1.5	2.1	2.3	2.4	3.3	3.4	3.1	5.2	7.3	11.1		15.1	14.5
Renewable energy generation and storage	2.5	2.2	2.6	2.6	2.9	3.9	5.1	4.3	6.5	10.3	r		16.6	24.2
Advanced gas turbine engine technologies	1.0	1.0	1.0	1.0	1.0	1.3	1.9	1.5	1.3	3.4	6.0		11.2	6.7
Advanced nuclear energy technologies	0.8	0.8	0.9	0.8	0.7	1.0	0.9	0.7	r	0.7	1.5		3.3	4.7

r = relative standard error > 50%.

Note(s):

Detail may not add to total because of rounding. Statistics are representative of companies located in the United States. Estimates represent the percentage of companies reporting using each technology to any extent (a lot, somewhat, or a little).

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, 2022 Annual Business Survey: Data Year 2021.