



AdvaMed
The Medtech Association

| F R O S T & S U L L I V A N

THE ECONOMIC IMPACT OF THE MEDICAL TECHNOLOGY INDUSTRY

A 2024 statistical update on the contributions of the
industry to national and state economic conditions

December 2024



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PROJECT OVERVIEW

BACKGROUND

This report has been designed to provide a comprehensive perspective on the impact of the medical technology industry's impact on the U.S. economy. Data provided by the U.S. Bureau of Labor Statistics, the U.S. Census Bureau, and the U.S. Bureau of Economic Analysis has been compiled in this report to provide a comprehensive overview of the medical technology industry and its economic contributions at the national and state level.

AdvaMed commissioned Frost & Sullivan to develop this report, last published in 2021, to reflect all data available as of December 30, 2024.



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SOURCES

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS) SUBSECTORS INCLUDED	CODE
In-vitro diagnostic substance manufacturing	325413
Electromedical and Electrotherapeutic apparatus manufacturing*	334510
Irradiation apparatus manufacturing	334517
Surgical and medical instrument manufacturing	339112
Surgical appliance and supplies manufacturing	339113
Dental equipment and supplies manufacturing	339114
Ophthalmic goods manufacturing	339115
Dental laboratories	339116

SOURCES

- Quarterly Census of Employment and Wages (annual data through 2023), U.S. Bureau of Labor Statistics (QCEW)
- Annual Survey of Manufacturers (annual data through 2022), U.S. Census Bureau (ASM)
- Economic Census (annual data through 2022), U.S. Census Bureau (EC)
- RIMS II Multipliers (last revised 2022), U.S. Bureau of Economic Analysis
- Consumer Price Index for All Urban Consumers (calculated through September 2024), U.S. Bureau of Labor Statistics (CPI-U)

*Shortened to “Electromedical apparatus manufacturing” throughout the report.

METHODOLOGY

NOTES ON METHODOLOGY

- Frost & Sullivan closely followed the methodology of past reports, including the most recent predecessor in 2021.
- Only secondary research was utilized for the report.
- The scope of research is U.S. only.
- The labor statistics presented include a combination of figures computed using Annual Survey of Manufacturers (ASM), Economic Census (EC), and Quarterly Census of Employment and Wages (QCEW) data.
- ASM/EC data is utilized for all national-level medical technology and manufacturing employment counts.
- QCEW data is used for all state-level figures, average wage calculations, and for counts of total economy-wide U.S. employment.
- These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.
- The establishment size statistics presented were computed from Quarterly Census of Employment and Wages (QCEW) data for the first quarter of 2023.
- Indirect revenue, payroll, and employment effects were computed using RIMS II multipliers provided by the Bureau of Economic Analysis. The corresponding state revenue, payrolls, and employment figures used in those calculations were sourced from the 2022 Economic Census, the latest data available providing by-subsector revenue. The multipliers from the BEA use a combination of 2017 and 2022 data and were released in March of 2024.
- Where identified, adjusted dollar amounts were calculated using the Consumer Price Index for All Urban Consumers (CPI-U) provided by the U.S. Bureau of Labor Statistics.
- Medical Technology Industry is abbreviated to MTI throughout the report.
- Figures may not sum properly due to rounding.

KEY INDUSTRY STATISTICS

REVENUE AND COSTS

In 2023, the medical technology industry was responsible for:

- \$174.4 billion in total sales, shipments, and revenue
- \$43.1 billion in total payroll
- \$55.8 billion in total cost of materials
- An economic value-add of \$101.9 billion

In 2023, the top five states in terms of total medical technology revenue were California, Minnesota, Texas, Indiana, and Florida.

LABOR

In 2023, the medical technology industry:

- Employed 451,341 people
- Paid employees \$96,814 per year on average, 33.3% higher than the average across all industries, and higher than the 13.7% premium for all manufacturing jobs

The top five states in terms of total medical technology employment were California, Minnesota, Florida, Indiana, and Texas.

KEY INDUSTRY STATISTICS (CONT)

GROWTH RATES

- Between 2018 and 2023, total medical technology employment grew by 5.8%, compared to an increase in overall manufacturing employment of 1.7%
- Between 2016 and 2021, total medical technology sales, shipments, and revenue grew by 19.5%, compared to an increase in overall manufacturing sales, shipments, and revenue of 19.0%
- When adjusted for inflation, annual revenue have remained roughly steady over the past decade, while annual payroll has generally increased

INDIRECT EFFECTS

Revenue, employment, and earnings in the medical technology industry outsize impacts in their states. On average, in a given state:

- Each \$1.00 in MTI revenue led to an additional \$0.84 in total state revenue
- Each MTI job resulted in an additional 1.41 jobs
- Each \$1.00 in MTI payroll led to an additional \$0.92 in total state payroll

MTI REVENUE & EXPENSES

FIGURE 1: Revenue, Payroll, Costs, and Value Added by Subsector – 2021

FIGURE 2: Revenue by Subsector – 2021

FIGURE 3: Change in Sales, Value of shipments, and/or Revenue (\$ Thousands) – 2016 to 2021

FIGURE 4: Real Growth in Revenue and Payroll – 2014 to 2022 – Adjusted 2023 Dollars

FIGURE 5: Year-over-Year Change in Revenue and Payroll – 2014 to 2023 – Adjusted 2023 Dollars

MTI REVENUE & EXPENSES – FIGURE 1

CURRENT DATA

FIGURE 1: Revenue, Payroll, Costs, and Value Added by Subsector – 2021

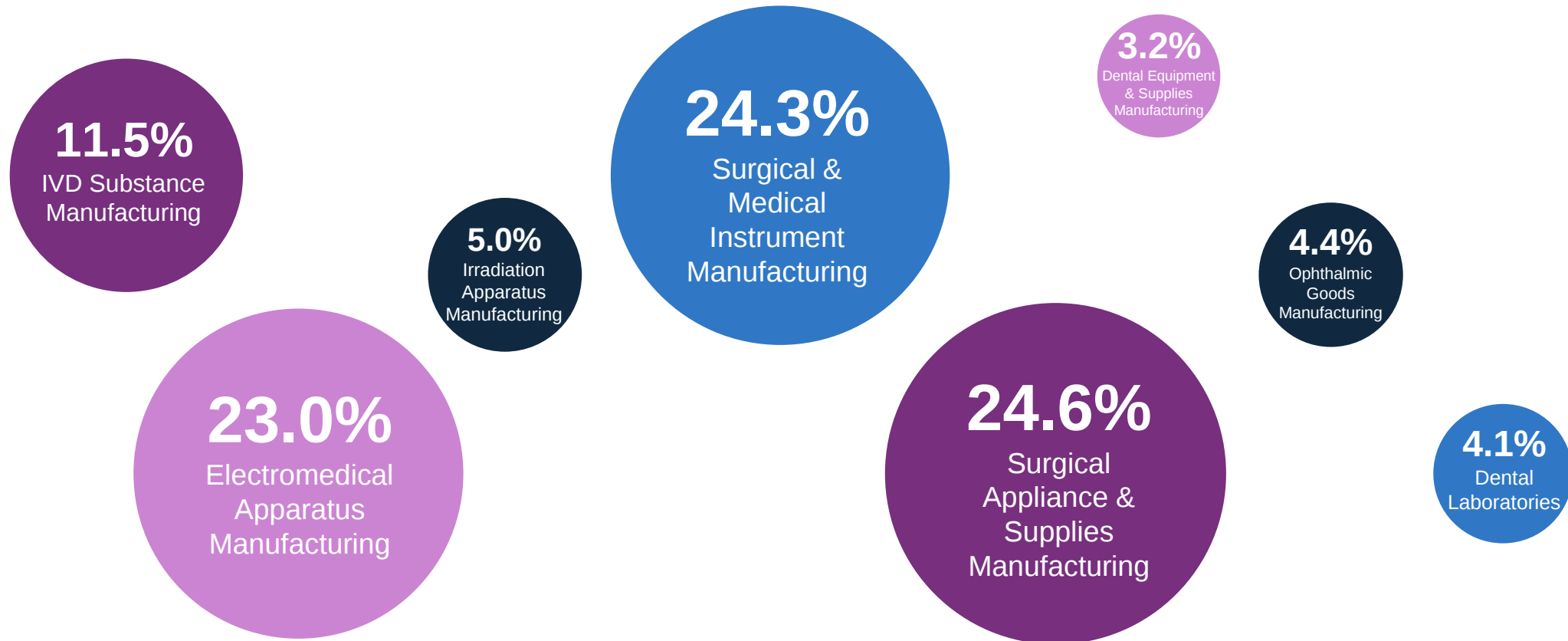
Industry / Subsector	Share of Total Revenue	Sales, value of shipments, or revenue (\$1,000s)	Annual payroll (\$1,000s)	Total cost of materials (\$1,000s)	Value added (\$1,000s)
In-vitro diagnostic substance manufacturing	11.5%	\$18,079,972	\$3,257,587	\$5,777,750	\$12,359,511
Electromedical apparatus manufacturing	23.0%	\$36,005,776	\$7,645,921	\$13,669,585	\$22,787,380
Irradiation apparatus manufacturing	5.0%	\$7,833,465	\$1,065,949	\$3,256,914	\$4,490,918
Surgical and medical instrument manufacturing	24.3%	\$38,034,768	\$8,254,731	\$13,270,604	\$24,991,217
Surgical appliance and supplies manufacturing	24.6%	\$38,591,473	\$6,295,115	\$14,073,960	\$24,675,073
Dental equipment and supplies manufacturing	3.2%	\$5,025,761	\$967,625	\$1,484,370	\$3,617,219
Ophthalmic goods manufacturing	4.4%	\$6,843,441	\$1,290,704	\$2,854,105	\$3,984,123
Dental laboratories	4.1%	\$6,393,984	\$2,041,166	\$1,394,460	\$5,025,194
Medical Technology	---	\$156,808,640	\$30,818,798	\$55,781,748	\$101,930,635

Figures 1–5 utilize data from the Annual Survey of Manufacturers & the Economic Census.

MTI REVENUE & EXPENSES – FIGURE 2

CURRENT DATA

FIGURE 2: Revenue by Subsector – 2021



Figures 1–5 utilize data from the Annual Survey of Manufacturers & the Economic Census.

MTI REVENUE & EXPENSES – FIGURE 3

CHANGES OVER TIME

FIGURE 3: Change in Sales, Value of shipments, and/or Revenue (\$ Thousands) – 2016 to 2021

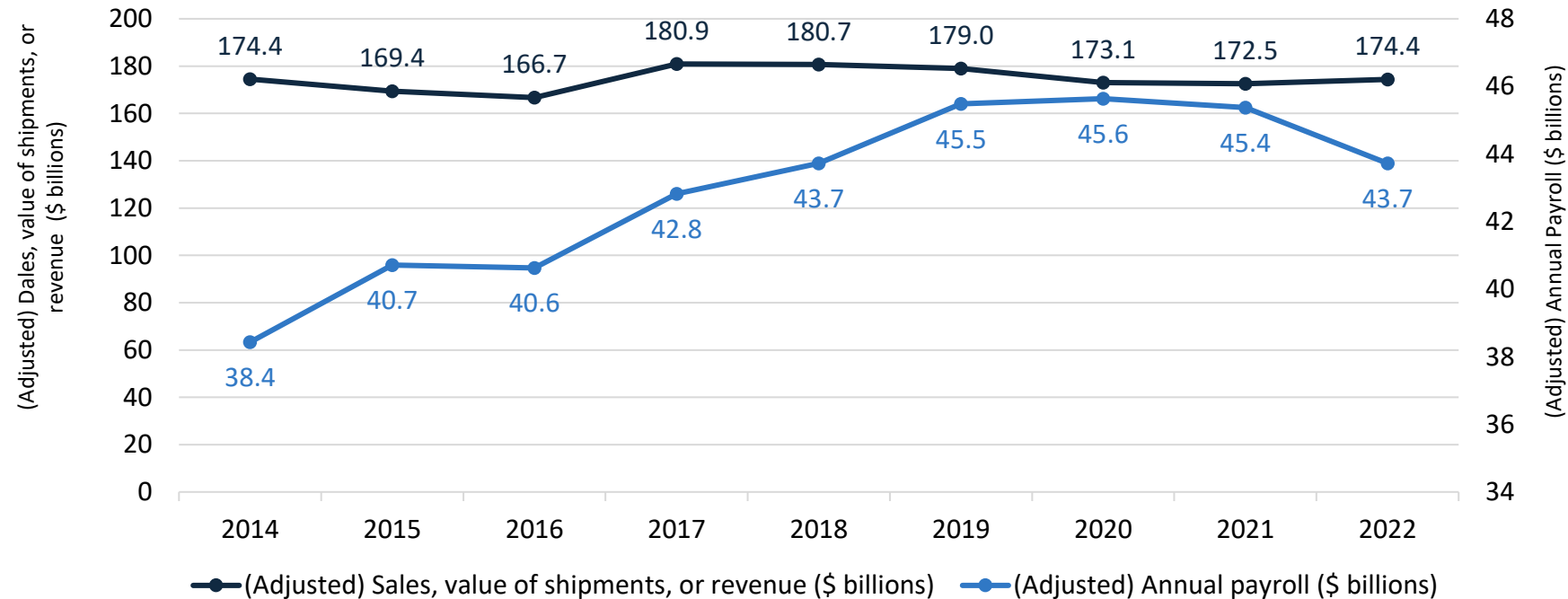
Industry / Subsector	2016	2021	Change, 2016–2021 (\$)	Percent Change, 2016–2021 (%)
In-vitro diagnostic substance manufacturing	\$11,883,874	\$18,079,972	\$6,196,098	52.1%
Electromedical apparatus manufacturing	\$26,291,936	\$36,005,776	\$9,713,840	36.9%
Irradiation apparatus manufacturing	\$7,141,635	\$7,833,465	\$691,830	9.7%
Surgical and medical instrument manufacturing	\$41,039,499	\$38,034,768	-\$3,004,731	-7.3%
Surgical appliance and supplies manufacturing	\$30,630,740	\$38,591,473	\$7,960,733	26.0%
Dental equipment and supplies manufacturing	\$4,333,783	\$5,025,761	\$691,978	16.0%
Ophthalmic goods manufacturing	\$5,529,590	\$6,843,441	\$1,313,851	23.8%
Dental laboratories	\$4,341,531	\$6,393,984	\$2,052,453	47.3%
Medical Technology	\$131,192,588	\$149,944,823	\$156,808,640	\$25,616,052
Manufacturing	\$5,110,840,970	\$5,731,187,355	\$6,079,602,177	\$968,761,207

Figures 1–5 utilize data from the Annual Survey of Manufacturers & the Economic Census.

MTI REVENUE & EXPENSES – FIGURE 4

CHANGES OVER TIME

FIGURE 4: Real Growth in Revenue and Payroll – 2014 to 2022 – Adjusted 2023 Dollars



Figures 1–5 utilize data from the Annual Survey of Manufacturers & the Economic Census.

MTI REVENUE & EXPENSES – FIGURE 5

CHANGES OVER TIME

FIGURE 5: Year-over-Year Change in Revenue and Payroll – 2014 to 2023 – Adjusted 2023 Dollars

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
(Adjusted) Annual Payroll (\$ billions)	38.4	40.7	40.6	42.8	43.7	45.5	45.6	45.4	43.7	43.1
YoY % Change	---	5.9%	-0.2%	5.4%	2.1%	4.0%	0.3%	-0.6%	-3.6%	-1.5%

(Adjusted) Sales, value of shipments, or revenue (\$ billions)	174.4	169.4	166.7	180.9	180.7	179.0	173.1	172.5	174.4	174.4
YoY % Change	-2.9%	-1.6%	8.5%	-0.1%	-0.9%	-3.3%	-0.3%	1.1%	-2.9%	-1.6%

Figures 1–5 utilize data from the Annual Survey of Manufacturers & the Economic Census.

MTI EMPLOYMENT & COMPENSATION

FIGURE 6: Employment and Average Annual Pay by Industry/Subsector – 2023

FIGURE 7: MTI Pay Premium – 2014 to 2023

FIGURE 8: Change in Employment – 2018 to 2023

FIGURE 9: Medical Technology Industry Employment – 2014 to 2023

FIGURE 10: Number of Establishments by Number of Employees and Subsector – 2023

FIGURE 11: Percentage of MTI Establishments by Number of Employees – 2023

FIGURE 12: Employment Statistics by State – 2023

FIGURE 13: MTI Earnings Premium Above State Average – 2023

MTI EMPLOYMENT & COMPENSATION – FIGURE 6

NATIONAL LEVEL EMPLOYMENT

FIGURE 6: Employment and Average Annual Pay by Industry/Subsector – 2023

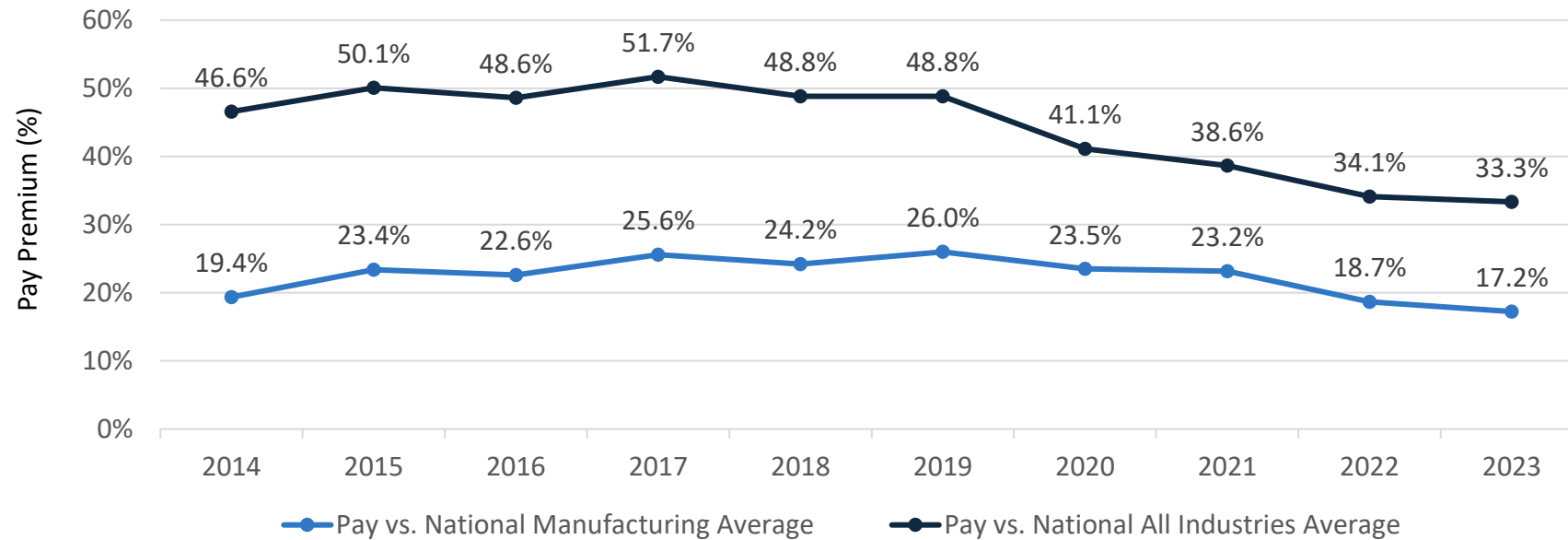
Industry / Subsector	Employment	Share of Total Med Tech Employment	Average Annual Pay	Pay Premium vs. National Average
In-vitro diagnostic substance manufacturing	31,395	7.0%	\$116,063	59.8%
Electromedical apparatus manufacturing	75,159	16.7%	\$124,819	71.9%
Irradiation apparatus manufacturing	13,879	3.1%	\$129,646	78.6%
Surgical and medical instrument manufacturing	142,943	31.7%	\$98,333	35.4%
Surgical appliance and supplies manufacturing	103,860	23.0%	\$89,033	22.6%
Dental equipment and supplies manufacturing	16,490	3.7%	\$78,965	8.8%
Ophthalmic goods manufacturing	23,965	5.3%	\$76,650	5.6%
Dental laboratories	43,650	9.7%	\$55,663	-23.3%
Medical Technology	451,341	---	\$96,814	33.3%
Manufacturing	12,868,061	---	\$82,575	13.7%
All Industries	131,289,681	---	\$72,608	---

Figures 6–13 utilize data from the Annual Survey of Manufacturers, Economic Census, and Quarterly Census of Employment and Wages.

MTI EMPLOYMENT & COMPENSATION – FIGURE 7

NATIONAL LEVEL EMPLOYMENT

FIGURE 7: MTI Pay Premium – 2014 to 2023



Figures 6–13 utilize data from the Annual Survey of Manufacturers, Economic Census, and Quarterly Census of Employment and Wages.

MTI EMPLOYMENT & COMPENSATION – FIGURE 8

NATIONAL LEVEL EMPLOYMENT

FIGURE 8: Change in Employment – 2018 to 2023

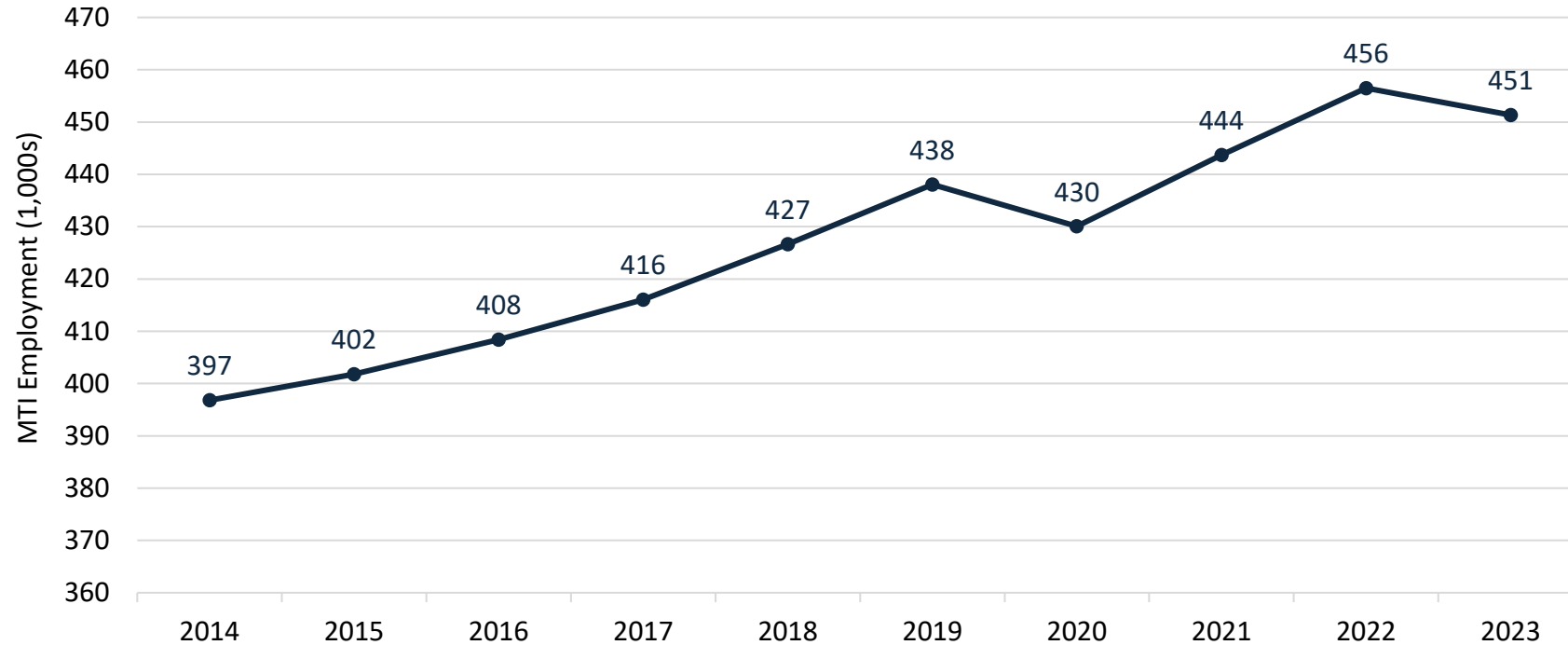
Industry / Subsector	2018	2023	Percent Change
Medical Technology	426,625	451,341	5.8%
Manufacturing	12,647,900	12,868,061	1.7%
All Industries	124,551,838	131,289,681	5.4%

Figures 6–13 utilize data from the Annual Survey of Manufacturers, Economic Census, and Quarterly Census of Employment and Wages.

MTI EMPLOYMENT & COMPENSATION – FIGURE 9

NATIONAL LEVEL EMPLOYMENT

FIGURE 9: Medical Technology Industry Employment – 2014 to 2023



Figures 6–13 utilize data from the Annual Survey of Manufacturers, Economic Census, and Quarterly Census of Employment and Wages.

MTI EMPLOYMENT & COMPENSATION – FIGURE 10

NATIONAL LEVEL EMPLOYMENT

FIGURE 10: Number of Establishments by Number of Employees and Subsector – 2023

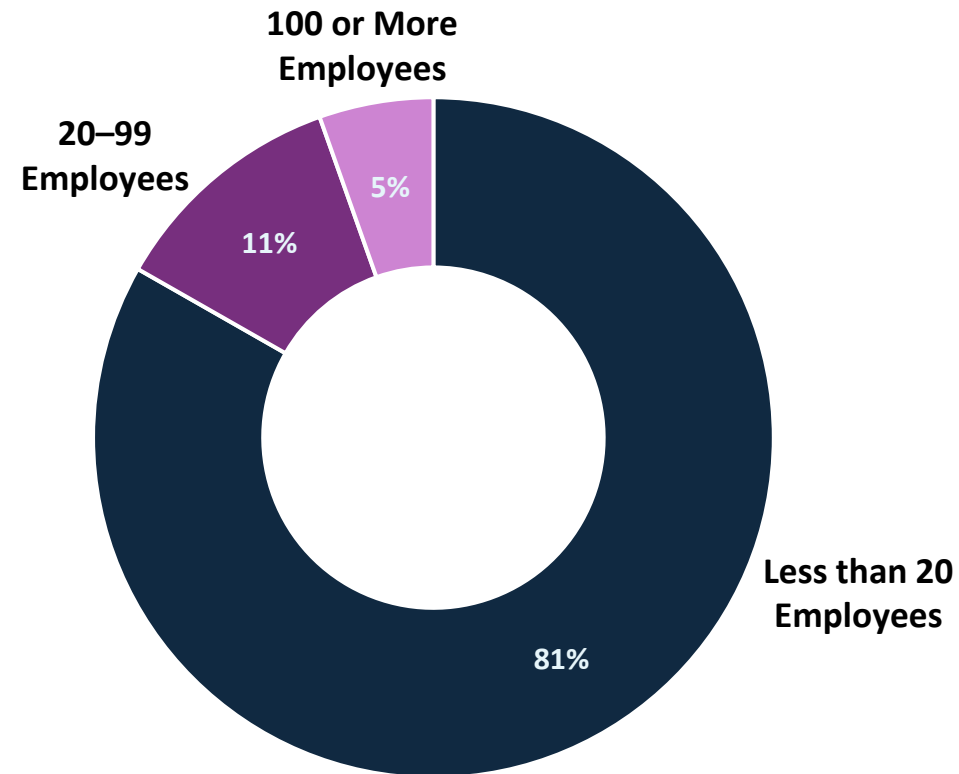
Industry / Subsector	Less than 20 Employees	20-99 Employees	100 or More Employees	Total Establishments
In-vitro diagnostic substance manufacturing	88	97	52	448
Electromedical apparatus manufacturing	1,749	223	144	2,116
Irradiation apparatus manufacturing	51	51	30	291
Surgical and medical instrument manufacturing	3,080	396	290	3,766
Surgical appliance and supplies manufacturing	2,708	505	242	3,455
Dental equipment and supplies manufacturing	713	88	38	842
Ophthalmic goods manufacturing	495	114	48	657
Dental laboratories	4,734	378	44	5,159
Medical Technology	13,618	1,852	888	16,734

Figures 6–13 utilize data from the Annual Survey of Manufacturers, Economic Census, and Quarterly Census of Employment and Wages.

MTI EMPLOYMENT & COMPENSATION – FIGURE 11

NATIONAL LEVEL EMPLOYMENT

FIGURE 11: Percentage of MTI Establishments by Number of Employees – 2023



Figures 6–13 utilize data from the Annual Survey of Manufacturers, Economic Census, and Quarterly Census of Employment and Wages.

MTI EMPLOYMENT & COMPENSATION – FIGURE 12

STATE LEVEL EMPLOYMENT

FIGURE 12: Employment Statistics by State – 2023

State	Employment	Percent of State Employment	Average Annual Pay	Pay Premium vs. State Average
Alabama	3,644	0.21%	\$54,754	-7.2%
Alaska	66	0.03%	\$61,029	-10.6%
Arizona	9,807	0.35%	\$84,147	25.8%
Arkansas	619	0.06%	\$53,677	-4.1%
California	92,605	0.60%	\$122,461	40.2%
Colorado	8,558	0.35%	\$101,595	29.7%
Connecticut	6,984	0.48%	\$91,284	7.5%
Delaware	54	0.01%	\$75,944	8.6%
Florida	25,820	0.30%	\$87,160	31.5%
Georgia	7,425	0.18%	\$80,817	18.0%
Hawaii	150	0.03%	\$47,333	-23.5%
Idaho	614	0.09%	\$69,396	22.2%
Illinois	12,666	0.24%	\$105,864	40.0%
Indiana	22,440	0.81%	\$84,613	40.7%
Iowa	1,286	0.10%	\$53,127	-10.8%
Kansas	1,219	0.10%	\$68,270	14.2%
Kentucky	2,213	0.13%	\$67,796	16.1%
Louisiana	1,323	0.08%	\$48,211	-18.9%
Maine	2,438	0.45%	\$81,958	35.5%
Maryland	5,932	0.27%	\$102,705	40.4%

Figures 6–13 utilize data from the Annual Survey of Manufacturers, Economic Census, and Quarterly Census of Employment and Wages.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

MTI EMPLOYMENT & COMPENSATION – FIGURE 12 (CONT)

STATE LEVEL EMPLOYMENT

FIGURE 12: Employment Statistics by State – 2023

State	Employment	Percent of State Employment	Average Annual Pay	Pay Premium vs. State Average
Massachusetts	18,381	0.57%	\$120,954	30.0%
Michigan	13,042	0.34%	\$95,945	45.4%
Minnesota	37,142	1.47%	\$107,574	49.0%
Mississippi	691	0.07%	\$56,630	17.1%
Missouri	3,532	0.14%	\$69,964	11.8%
Montana	688	0.16%	\$51,516	-9.4%
Nebraska	870	0.10%	\$71,390	20.6%
Nevada	749	0.06%	\$61,445	-2.1%
New Hampshire	2,447	0.41%	\$83,053	9.2%
New Jersey	14,621	0.40%	\$126,253	56.1%
New Mexico	457	0.07%	\$50,219	-10.7%
New York	16,452	0.20%	\$78,789	-14.4%
North Carolina	8,718	0.21%	\$73,722	11.5%
North Dakota	170	0.05%	\$64,588	-0.1%
Ohio	9,696	0.20%	\$69,319	10.6%
Oklahoma	1,015	0.08%	\$85,737	53.1%
Oregon	4,689	0.28%	\$71,279	6.1%
Pennsylvania	18,775	0.35%	\$80,511	16.2%
Rhode Island	1,563	0.37%	\$68,406	6.3%
South Carolina	4,042	0.21%	\$84,923	47.2%

Figures 6–13 utilize data from the Annual Survey of Manufacturers, Economic Census, and Quarterly Census of Employment and Wages.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

MTI EMPLOYMENT & COMPENSATION – FIGURE 12 (CONT)

STATE LEVEL EMPLOYMENT

FIGURE 12: Employment Statistics by State – 2023

State	Employment	Percent of State Employment	Average Annual Pay	Pay Premium vs. State Average
South Dakota	144	0.04%	\$48,174	-14.8%
Tennessee	9,963	0.35%	\$94,491	45.0%
Texas	18,827	0.16%	\$83,553	13.5%
Utah	14,140	0.98%	\$78,277	22.4%
Vermont	592	0.23%	\$59,313	-3.5%
Virginia	4,144	0.12%	\$84,431	13.7%
Washington	7,650	0.25%	\$108,794	20.9%
West Virginia	796	0.14%	\$74,666	34.5%
Wisconsin	11,511	0.45%	\$88,718	44.4%
Wyoming	9	0.00%	\$43,333	-26.5%

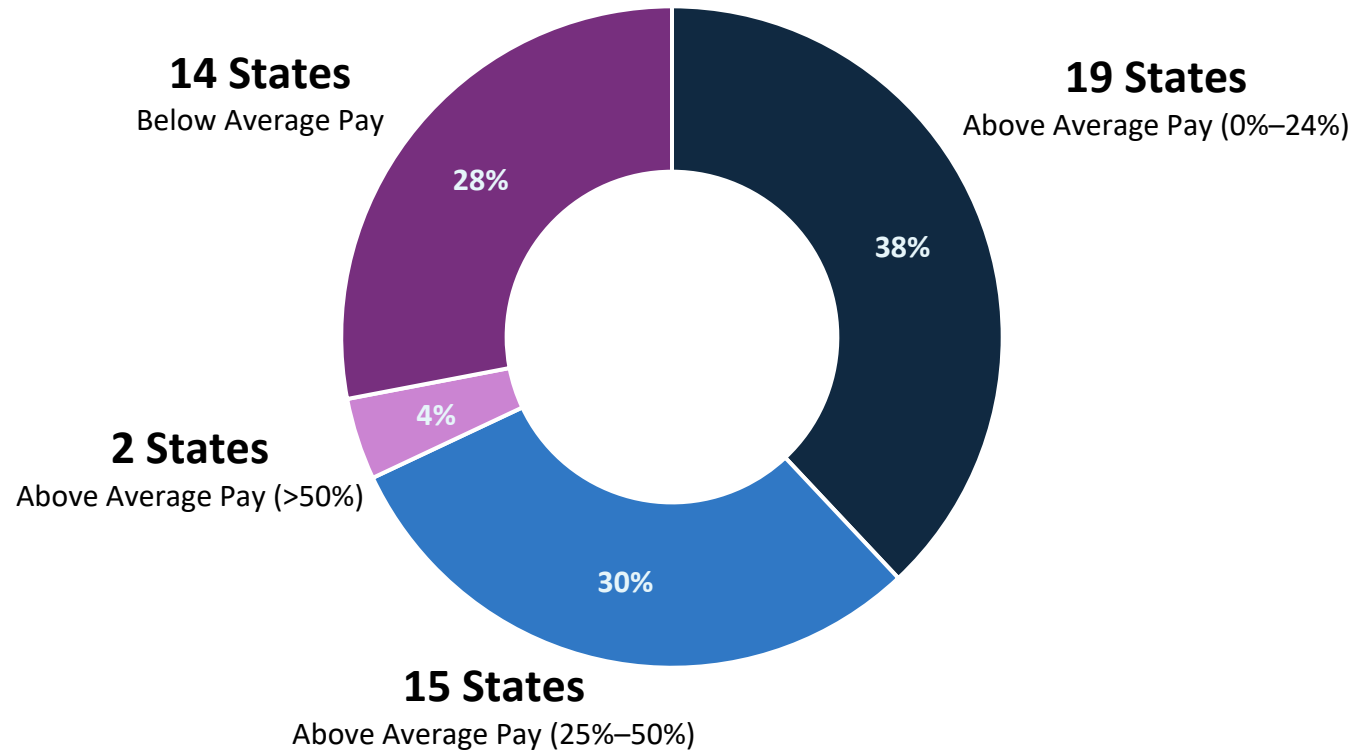
Figures 6–13 utilize data from the Annual Survey of Manufacturers, Economic Census, and Quarterly Census of Employment and Wages.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

MTI EMPLOYMENT & COMPENSATION – FIGURE 13

STATE LEVEL EMPLOYMENT

FIGURE 13: MTI Earnings Premium Above State Average – 2023



Figures 6–13 utilize data from the Annual Survey of Manufacturers, Economic Census, and Quarterly Census of Employment and Wages.
Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI

FIGURE 14: Average State-Level Multipliers

FIGURE 15: Top States by MTI Revenue and Estimated Effects

FIGURE 16: Top States by MTI Payroll and Estimated Effects

FIGURE 17: Top States by MTI Employment and Estimated Effects

FIGURE 18: State-Level Multipliers and Estimated Effects – MTI

FIGURE 19: State-Level Multipliers and Estimated Effects – MTI & Subsectors

INDIRECT STATE EFFECTS OF MTI – FIGURE 14

NATIONAL LEVEL EFFECTS

FIGURE 14: Average State-Level Multipliers

Industry / Subsector	Revenue Multiplier	Jobs Multiplier	Payroll Multiplier
In-vitro diagnostic substance manufacturing	1.73	3.21	2.18
Electromedical apparatus manufacturing	1.79	2.65	1.82
Irradiation apparatus manufacturing	1.89	2.50	1.74
Surgical and medical instrument manufacturing	1.37	1.40	1.87
Surgical appliance and supplies manufacturing	1.92	2.46	2.05
Dental equipment and supplies manufacturing	1.88	2.33	2.06
Ophthalmic goods manufacturing	1.85	2.17	1.91
Dental laboratories	2.04	1.74	1.80
Medical Technology	1.84	2.41	1.92

Multipliers represent average effect of revenue/jobs/payroll in a given state. Each average is weighted by the relative size of each of the eight MTI subsectors. Estimate does not include inter-state factors, and thus does not represent total indirect effects at the national level.

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 15

STATE LEVEL EFFECTS

FIGURE 15: Top States by MTI Revenue and Estimated Effects

State	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)
California	\$42,600.2	1.81	\$77,061.7
Minnesota	\$10,502.6	1.84	\$19,294.3
Texas	\$7,291.7	2.04	\$14,907.9
Indiana	\$7,113.8	1.91	\$13,571.2
Florida	\$6,953.1	1.80	\$12,493.9
Pennsylvania	\$6,910.6	1.91	\$13,216.9
Massachusetts	\$6,572.4	1.77	\$11,615.3
New Jersey	\$6,534.0	1.88	\$12,291.9
New York	\$5,906.4	1.65	\$9,739.8
Utah	\$4,164.1	1.83	\$7,627.4

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 16

STATE LEVEL EFFECTS

FIGURE 16: Top States by MTI Payroll and Estimated Effects

State	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
California	\$11,340.5	1.89	\$21,436.2
Minnesota	\$3,995.5	1.90	\$7,611.0
Florida	\$2,250.5	1.87	\$4,199.5
Massachusetts	\$2,223.3	1.88	\$4,183.5
Indiana	\$1,898.7	1.98	\$3,764.1
New Jersey	\$1,845.9	2.07	\$3,815.2
Texas	\$1,573.1	2.11	\$3,324.3
Pennsylvania	\$1,511.6	1.98	\$2,989.9
Illinois	\$1,340.9	2.06	\$2,757.2
New York	\$1,296.2	1.66	\$2,151.8

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 17

STATE LEVEL EFFECTS

FIGURE 17: Top States by MTI Employment and Estimated Effects

State	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)
California	92.6	2.46	228.3
Minnesota	37.1	2.59	96.3
Florida	25.8	2.28	58.8
Indiana	22.4	2.40	54.0
Texas	18.8	2.76	51.9
Pennsylvania	18.8	2.24	42.1
Massachusetts	18.4	2.53	46.6
New York	16.5	1.86	30.6
New Jersey	14.6	2.74	40.1
Utah	14.1	2.26	31.9

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 18

STATE LEVEL EFFECTS

FIGURE 18: State-Level Multipliers and Estimated Effects – Medical Technology Industry

State	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Alabama	\$590.3	1.85	\$1,090.6	3.6	2.18	7.9	\$199.5	1.85	\$368.5
Alaska	\$6.5	1.52	\$9.8	0.1	1.40	0.1	\$4.0	1.45	\$5.9
Arizona	\$3,482.6	1.83	\$6,381.1	9.8	2.11	20.7	\$825.2	1.91	\$1,573.4
Arkansas	\$93.0	1.73	\$160.6	0.6	1.68	1.0	\$33.2	1.70	\$56.5
California	\$42,600.2	1.81	\$77,061.7	92.6	2.46	228.3	\$11,340.5	1.89	\$21,436.2
Colorado	\$2,514.2	1.82	\$4,570.3	8.6	2.21	18.9	\$869.5	1.88	\$1,637.9
Connecticut	\$2,810.1	1.78	\$4,988.3	7.0	1.95	13.6	\$637.5	1.79	\$1,138.0
Delaware	\$8.8	1.70	\$15.0	0.1	1.52	0.1	\$4.1	1.56	\$6.4
Florida	\$6,953.1	1.80	\$12,493.9	25.8	2.28	58.8	\$2,250.5	1.87	\$4,199.5
Georgia	\$1,948.5	1.95	\$3,797.7	7.4	2.54	18.9	\$600.1	2.04	\$1,224.8
Hawaii	\$0.0	1.00	\$0.0	0.2	1.43	0.2	\$7.1	1.58	\$11.2
Idaho	\$54.0	1.78	\$95.9	0.6	1.74	1.1	\$42.6	1.69	\$72.0
Illinois	\$3,082.1	2.05	\$6,309.6	12.7	2.80	35.5	\$1,340.9	2.06	\$2,757.2
Indiana	\$7,113.8	1.91	\$13,571.2	22.4	2.40	54.0	\$1,898.7	1.98	\$3,764.1
Iowa	\$211.7	1.67	\$354.4	1.3	2.05	2.6	\$68.3	1.68	\$114.7
Kansas	\$141.1	1.78	\$251.8	1.2	2.08	2.5	\$83.2	1.71	\$142.4
Kentucky	\$322.5	1.84	\$594.3	2.2	2.08	4.6	\$150.0	1.86	\$279.2
Louisiana	\$154.1	1.74	\$268.0	1.3	1.83	2.4	\$63.8	1.76	\$112.0
Maine	\$735.0	1.63	\$1,199.8	2.4	2.43	5.9	\$199.8	1.98	\$396.3
Maryland	\$1,165.5	1.62	\$1,893.1	5.9	2.60	15.4	\$609.2	1.93	\$1,177.0

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 18 (CONT)

STATE LEVEL EFFECTS

FIGURE 18: State-Level Multipliers and Estimated Effects – Medical Technology Industry

State	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Massachusetts	\$6,572.4	1.77	\$11,615.3	18.4	2.53	46.6	\$2,223.3	1.88	\$4,183.5
Michigan	\$4,037.3	1.94	\$7,826.9	13.0	2.66	34.7	\$1,251.3	2.05	\$2,568.7
Minnesota	\$10,502.6	1.84	\$19,294.3	37.1	2.59	96.3	\$3,995.5	1.90	\$7,611.0
Mississippi	\$124.5	1.65	\$205.5	0.7	1.84	1.3	\$39.1	1.68	\$65.8
Missouri	\$1,236.7	1.82	\$2,249.1	3.5	2.35	8.3	\$247.1	1.94	\$480.5
Montana	\$53.3	1.59	\$84.6	0.7	1.68	1.2	\$35.4	1.62	\$57.3
Nebraska	\$39.8	1.76	\$70.2	0.9	2.06	1.8	\$62.1	1.76	\$109.1
Nevada	\$148.8	1.68	\$249.7	0.7	1.65	1.2	\$46.0	1.66	\$76.4
New Hampshire	\$1,207.3	1.71	\$2,066.7	2.4	2.17	5.3	\$203.2	1.83	\$372.4
New Jersey	\$6,534.0	1.88	\$12,291.9	14.6	2.74	40.1	\$1,845.9	2.07	\$3,815.2
New Mexico	\$0.0	1.00	\$0.0	0.5	1.67	0.8	\$23.0	1.56	\$35.9
New York	\$5,906.4	1.65	\$9,739.8	16.5	1.86	30.6	\$1,296.2	1.66	\$2,151.8
North Carolina	\$1,708.1	1.98	\$3,374.8	8.7	2.38	20.7	\$642.7	2.01	\$1,292.8
North Dakota	\$14.4	1.50	\$21.6	0.2	1.58	0.3	\$11.0	1.54	\$16.9
Ohio	\$3,930.2	1.97	\$7,754.8	9.7	2.68	25.9	\$672.1	2.00	\$1,347.6
Oklahoma	\$348.4	1.71	\$595.8	1.0	2.03	2.1	\$87.0	1.80	\$156.6
Oregon	\$1,397.0	1.79	\$2,501.7	4.7	1.94	9.1	\$334.2	1.90	\$634.8
Pennsylvania	\$6,910.6	1.91	\$13,216.9	18.8	2.24	42.1	\$1,511.6	1.98	\$2,989.9
Rhode Island	\$386.1	1.71	\$659.6	1.6	2.11	3.3	\$106.9	1.74	\$185.5
South Carolina	\$837.4	1.86	\$1,555.7	4.0	2.60	10.5	\$343.3	1.91	\$656.8

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 18 (CONT)

STATE LEVEL EFFECTS

FIGURE 18: State-Level Multipliers and Estimated Effects – Medical Technology Industry

State	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
South Dakota	\$12.3	1.69	\$20.8	0.1	1.54	0.2	\$6.9	1.57	\$10.9
Tennessee	\$3,662.7	2.11	\$7,734.7	10.0	2.88	28.7	\$941.4	2.15	\$2,026.2
Texas	\$7,291.7	2.04	\$14,907.9	18.8	2.76	51.9	\$1,573.1	2.11	\$3,324.3
Utah	\$4,164.1	1.83	\$7,627.4	14.1	2.26	31.9	\$1,106.8	1.85	\$2,052.8
Vermont	\$32.3	1.49	\$48.1	0.6	1.77	1.0	\$35.1	1.66	\$58.2
Virginia	\$824.7	1.73	\$1,424.8	4.1	1.97	8.2	\$349.9	1.76	\$616.8
Washington	\$2,992.8	1.68	\$5,039.1	7.7	2.19	16.7	\$832.3	1.74	\$1,446.3
West Virginia	\$294.1	1.53	\$451.3	0.8	1.72	1.4	\$59.4	1.66	\$98.5
Wisconsin	\$3,071.5	1.81	\$5,548.2	11.5	2.28	26.3	\$1,021.2	1.84	\$1,875.5
Wyoming	\$0.0	1.00	\$0.0	0.0	1.52	0.0	\$0.4	1.40	\$0.5
Weighted State Average	\$148,228.6	1.84	\$273,284.6	431.4	2.41	1041.1	\$42,131.5	1.92	\$80,791.8

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

		Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Weighted State Average	Industry / Subsector									
	Medical Technology	\$148,228.6	1.84	\$273,284.6	431.4	2.41	1041.1	\$42,131.5	1.92	\$80,791.8
	In-vitro diagnostic substance manufacturing	\$38,581.6	1.79	\$69,123.4	73.4	2.65	194.8	\$9,192.8	1.82	\$16,717.4
	Electromedical apparatus manufacturing	\$6,085.5	1.89	\$11,493.4	12.6	2.50	31.4	\$1,647.4	1.74	\$2,866.3
	Irradiation apparatus manufacturing	\$36,920.4	1.37	\$67,375.9	138.4	1.40	325.4	\$13,756.1	1.87	\$25,694.8
	Surgical and medical instrument manufacturing	\$35,715.7	1.92	\$68,416.2	102.0	2.46	250.5	\$9,099.3	2.05	\$18,610.1
	Surgical appliance and supplies manufacturing	\$4,919.8	1.88	\$9,227.2	14.1	2.33	32.9	\$1,140.6	2.06	\$2,345.8
	Dental equipment and supplies manufacturing	\$6,056.9	1.85	\$11,230.8	21.4	2.17	46.3	\$1,657.5	1.91	\$3,173.2
	Ophthalmic goods manufacturing	\$5,962.6	2.04	\$12,153.3	43.3	1.74	75.5	\$2,411.6	1.80	\$4,342.3
	Dental laboratories	\$13,986.2	1.73	\$24,264.4	26.3	3.21	84.4	\$3,226.2	2.18	\$7,041.8

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.
 Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Alabama	Medical Technology	\$590.3	1.85	\$1,090.6	3.6	2.18	7.9	\$199.5	1.85	\$368.5
	Electromedical apparatus manufacturing	\$0.0	1.73	\$0.0	0.6	2.83	1.6	\$7.3	1.72	\$12.6
	Surgical and medical instrument manufacturing	\$148.8	1.81	\$270.0	0.8	2.19	1.9	\$62.3	1.82	\$113.6
	Surgical appliance and supplies manufacturing	\$347.4	1.84	\$638.9	1.2	2.20	2.6	\$80.3	1.94	\$155.3
	Dental equipment and supplies manufacturing	\$0.0	1.89	\$0.0	0.1	2.26	0.2	\$5.2	2.00	\$10.4
	Ophthalmic goods manufacturing	\$0.0	1.88	\$0.0	0.0	2.34	0.1	\$1.9	1.89	\$3.6
	Dental laboratories	\$94.1	1.93	\$181.8	0.9	1.71	1.6	\$42.5	1.71	\$72.9

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Alaska	Medical Technology	\$6.5	1.52	\$9.8	0.1	1.40	0.1	\$4.0	1.45	\$5.9
	Surgical and medical instrument manufacturing	\$0.0	1.37	\$0.0	0.0	1.53	0.0	\$0.4	1.42	\$0.6
	Surgical appliance and supplies manufacturing	\$0.0	1.38	\$0.0	0.0	1.50	0.0	\$1.6	1.48	\$2.4
	Dental laboratories	\$6.5	1.52	\$9.8	0.0	1.32	0.0	\$2.0	1.44	\$2.9

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Alabama	Medical Technology	\$590.3	1.85	\$1,090.6	3.6	2.18	7.9	\$199.5	1.85	\$368.5
	Electromedical apparatus manufacturing	\$0.0	1.73	\$0.0	0.6	2.83	1.6	\$7.3	1.72	\$12.6
	Surgical and medical instrument manufacturing	\$148.8	1.81	\$270.0	0.8	2.19	1.9	\$62.3	1.82	\$113.6
	Surgical appliance and supplies manufacturing	\$347.4	1.84	\$638.9	1.2	2.20	2.6	\$80.3	1.94	\$155.3
	Dental equipment and supplies manufacturing	\$0.0	1.89	\$0.0	0.1	2.26	0.2	\$5.2	2.00	\$10.4
	Ophthalmic goods manufacturing	\$0.0	1.88	\$0.0	0.0	2.34	0.1	\$1.9	1.89	\$3.6
	Dental laboratories	\$94.1	1.93	\$181.8	0.9	1.71	1.6	\$42.5	1.71	\$72.9

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Arizona	Medical Technology	\$3,482.6	1.83	\$6,381.1	9.8	2.11	20.7	\$825.2	1.91	\$1,573.4
	Electromedical apparatus manufacturing	\$322.9	1.73	\$557.9	0.7	2.17	1.6	\$62.7	1.76	\$110.6
	Surgical and medical instrument manufacturing	\$432.3	1.80	\$776.3	3.3	2.02	6.6	\$282.6	1.85	\$521.9
	Surgical appliance and supplies manufacturing	\$2,540.5	1.84	\$4,676.5	4.8	2.25	10.8	\$422.6	1.98	\$837.3
	Dental equipment and supplies manufacturing	\$3.6	1.85	\$6.7	0.0	2.57	0.0	\$0.0	2.02	\$0.0
	Ophthalmic goods manufacturing	\$45.0	1.84	\$82.7	0.0	1.90	0.0	\$0.0	1.90	\$0.0
	Dental laboratories	\$138.3	2.03	\$281.0	1.0	1.65	1.7	\$57.4	1.81	\$103.6

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Arkansas	Medical Technology	\$93.0	1.73	\$160.6	0.6	1.68	1.0	\$33.2	1.70	\$56.5
	Surgical appliance and supplies manufacturing	\$43.2	1.69	\$72.8	0.2	1.97	0.4	\$13.7	1.81	\$24.9
	Dental laboratories	\$49.9	1.76	\$87.8	0.4	1.54	0.6	\$19.5	1.62	\$31.6

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
California	Medical Technology	\$42,600.2	1.81	\$77,061.7	92.6	2.46	228.3	\$11,340.5	1.89	\$21,436.2
	In-vitro diagnostic substance manufacturing	\$7,375.8	1.73	\$12,723.3	8.6	3.19	27.5	\$1,182.3	2.19	\$2,590.0
	Electromedical apparatus manufacturing	\$14,775.3	1.78	\$26,313.3	22.2	2.60	57.7	\$3,287.7	1.81	\$5,946.5
	Irradiation apparatus manufacturing	\$2,802.5	1.89	\$5,299.5	2.8	2.46	7.0	\$497.2	1.76	\$874.1
	Surgical and medical instrument manufacturing	\$6,072.0	1.80	\$10,935.6	30.6	2.48	75.9	\$3,882.4	1.85	\$7,180.6
	Surgical appliance and supplies manufacturing	\$6,776.3	1.87	\$12,688.0	11.0	2.45	27.0	\$1,213.1	2.01	\$2,443.3
	Dental equipment and supplies manufacturing	\$2,027.5	1.85	\$3,742.9	3.1	2.34	7.3	\$290.9	2.02	\$587.5
	Ophthalmic goods manufacturing	\$1,248.7	1.80	\$2,247.5	4.4	2.04	9.0	\$377.6	1.87	\$704.8
	Dental laboratories	\$1,522.2	2.04	\$3,111.6	9.8	1.72	16.8	\$609.2	1.82	\$1,109.5

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Colorado	Medical Technology	\$2,514.2	1.82	\$4,570.3	8.6	2.21	18.9	\$869.5	1.88	\$1,637.9
	In-vitro diagnostic substance manufacturing	\$48.8	1.77	\$86.2	0.0	2.81	0.1	\$3.1	2.30	\$7.2
	Electromedical apparatus manufacturing	\$442.6	1.78	\$786.1	2.8	2.68	7.5	\$316.4	1.82	\$575.7
	Irradiation apparatus manufacturing	\$0.0	1.81	\$0.0	0.0	2.33	0.0	\$1.1	1.69	\$1.9
	Surgical and medical instrument manufacturing	\$1,789.6	1.81	\$3,243.8	3.1	2.05	6.4	\$366.7	1.88	\$688.2
	Surgical appliance and supplies manufacturing	\$101.5	1.87	\$190.1	1.8	1.98	3.5	\$134.5	2.04	\$274.0
	Dental equipment and supplies manufacturing	\$19.0	1.87	\$35.5	0.1	1.96	0.2	\$7.9	2.07	\$16.3
	Ophthalmic goods manufacturing	\$28.6	1.86	\$53.2	0.1	1.77	0.2	\$6.4	1.94	\$12.5
	Dental laboratories	\$84.2	2.08	\$175.5	0.6	1.58	0.9	\$33.3	1.86	\$62.0

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Connecticut	Medical Technology	\$2,810.1	1.78	\$4,988.3	7.0	1.95	13.6	\$637.5	1.79	\$1,138.0
	Electromedical apparatus manufacturing	\$169.8	1.69	\$287.6	0.1	2.08	0.3	\$11.4	1.72	\$19.5
	Irradiation apparatus manufacturing	\$1,097.7	1.85	\$2,028.9	0.4	2.49	1.1	\$59.2	1.73	\$102.2
	Surgical and medical instrument manufacturing	\$1,251.2	1.72	\$2,148.7	5.2	1.91	9.9	\$466.4	1.76	\$823.1
	Surgical appliance and supplies manufacturing	\$183.5	1.79	\$328.1	0.9	1.94	1.8	\$78.0	1.92	\$150.0
	Dental equipment and supplies manufacturing	\$62.3	1.75	\$109.2	0.3	1.83	0.6	\$22.5	1.92	\$43.1
	Ophthalmic goods manufacturing	\$11.7	1.77	\$20.7	0.0	1.64	0.0	\$0.0	1.83	\$0.0
	Dental laboratories	\$33.9	1.92	\$65.2	0.0	1.51	0.0	\$0.0	1.73	\$0.0

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Delaware	Medical Technology	\$8.8	1.70	\$15.0	0.1	1.52	0.1	\$4.1	1.56	\$6.4
	Surgical and medical instrument manufacturing	\$0.0	1.55	\$0.0	0.0	1.76	0.0	\$2.0	1.57	\$3.1
	Dental laboratories	\$8.8	1.70	\$15.0	0.0	1.43	0.1	\$2.2	1.55	\$3.3

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Florida	Medical Technology	\$6,953.1	1.80	\$12,493.9	25.8	2.28	58.8	\$2,250.5	1.87	\$4,199.5
	In-vitro diagnostic substance manufacturing	\$100.7	1.63	\$164.3	0.5	3.54	1.9	\$51.6	2.10	\$108.5
	Electromedical apparatus manufacturing	\$1,325.6	1.70	\$2,254.3	2.0	2.87	5.7	\$251.4	1.74	\$436.7
	Irradiation apparatus manufacturing	\$178.0	1.78	\$317.2	0.2	2.71	0.6	\$29.4	1.68	\$49.5
	Surgical and medical instrument manufacturing	\$1,489.4	1.77	\$2,637.1	9.0	2.23	20.0	\$811.5	1.83	\$1,482.9
	Surgical appliance and supplies manufacturing	\$1,859.3	1.84	\$3,420.1	5.6	2.22	12.5	\$408.7	1.99	\$812.1
	Dental equipment and supplies manufacturing	\$20.4	1.80	\$36.7	0.8	2.31	1.9	\$66.0	1.97	\$129.9
	Ophthalmic goods manufacturing	\$1,654.7	1.81	\$3,002.3	4.2	2.34	9.9	\$421.9	1.89	\$797.5
	Dental laboratories	\$325.1	2.04	\$662.0	3.4	1.85	6.3	\$210.0	1.82	\$382.4

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Georgia	Medical Technology	\$1,948.5	1.95	\$3,797.7	7.4	2.54	18.9	\$600.1	2.04	\$1,224.8
	In-vitro diagnostic substance manufacturing	\$255.7	1.71	\$437.0	0.0	3.07	0.0	\$0.0	2.23	\$0.0
	Electromedical apparatus manufacturing	\$283.2	1.86	\$527.0	0.5	2.52	1.3	\$51.3	1.87	\$95.9
	Irradiation apparatus manufacturing	\$95.7	1.87	\$179.3	0.0	2.78	0.0	\$0.0	1.73	\$0.0
	Surgical and medical instrument manufacturing	\$133.6	1.94	\$258.9	1.4	2.95	4.0	\$144.7	1.98	\$286.2
	Surgical appliance and supplies manufacturing	\$542.1	2.02	\$1,096.8	2.6	2.72	7.2	\$211.8	2.17	\$459.4
	Dental equipment and supplies manufacturing	\$26.9	1.98	\$53.2	0.2	2.38	0.4	\$12.4	2.16	\$26.9
	Ophthalmic goods manufacturing	\$398.2	1.99	\$791.0	1.3	2.49	3.3	\$101.9	2.04	\$208.4
	Dental laboratories	\$213.1	2.13	\$454.5	1.4	1.88	2.7	\$78.0	1.90	\$147.9

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Hawaii	Medical Technology	\$0.0	1.00	\$0.0	0.2	1.43	0.2	\$7.1	1.58	\$11.2
	Dental laboratories	\$0.0	1.74	\$0.0	0.2	1.43	0.2	\$7.1	1.58	\$11.2

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Idaho	Medical Technology	\$54.0	1.78	\$95.9	0.6	1.74	1.1	\$42.6	1.69	\$72.0
	Electromedical apparatus manufacturing	\$0.0	1.61	\$0.0	0.0	2.15	0.1	\$3.1	1.63	\$5.1
	Surgical and medical instrument manufacturing	\$0.0	1.61	\$0.0	0.1	1.91	0.1	\$7.5	1.65	\$12.4
	Surgical appliance and supplies manufacturing	\$12.2	1.66	\$20.2	0.2	1.95	0.4	\$14.2	1.77	\$25.1
	Dental equipment and supplies manufacturing	\$0.0	1.73	\$0.0	0.0	1.92	0.0	\$0.9	1.86	\$1.7
	Ophthalmic goods manufacturing	\$0.0	1.67	\$0.0	0.0	1.83	0.0	\$1.7	1.72	\$2.9
	Dental laboratories	\$41.8	1.81	\$75.7	0.3	1.50	0.4	\$15.2	1.63	\$24.7

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Illinois	Medical Technology	\$3,082.1	2.05	\$6,309.6	12.7	2.80	35.5	\$1,340.9	2.06	\$2,757.2
	Electromedical apparatus manufacturing	\$411.4	1.96	\$807.0	1.1	3.15	3.6	\$136.4	1.97	\$268.8
	Irradiation apparatus manufacturing	\$812.0	2.11	\$1,715.2	0.4	2.72	1.1	\$45.4	1.94	\$87.9
	Surgical and medical instrument manufacturing	\$567.8	1.97	\$1,121.4	6.2	2.96	18.3	\$746.9	2.02	\$1,510.1
	Surgical appliance and supplies manufacturing	\$612.9	2.03	\$1,245.1	1.6	2.88	4.8	\$195.2	2.19	\$428.0
	Dental equipment and supplies manufacturing	\$386.7	2.05	\$794.0	1.5	2.84	4.3	\$119.6	2.24	\$268.3
	Ophthalmic goods manufacturing	\$116.5	2.07	\$240.7	0.3	2.23	0.7	\$22.6	2.12	\$47.9
	Dental laboratories	\$174.7	2.21	\$386.2	1.5	1.88	2.8	\$74.8	1.95	\$146.2

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Indiana	Medical Technology	\$7,113.8	1.91	\$13,571.2	22.4	2.40	54.0	\$1,898.7	1.98	\$3,764.1
	In-vitro diagnostic substance manufacturing	\$0.0	1.66	\$0.0	2.9	3.30	9.5	\$404.5	2.08	\$839.9
	Electromedical apparatus manufacturing	\$0.0	1.82	\$0.0	0.2	2.49	0.6	\$24.6	1.81	\$44.5
	Irradiation apparatus manufacturing	\$11.8	1.96	\$23.2	0.0	2.25	0.0	\$0.0	1.80	\$0.0
	Surgical and medical instrument manufacturing	\$1,969.0	1.87	\$3,677.0	8.0	2.05	16.4	\$540.1	1.88	\$1,014.0
	Surgical appliance and supplies manufacturing	\$4,738.4	1.92	\$9,104.9	9.8	2.54	24.7	\$852.2	2.02	\$1,722.3
	Dental equipment and supplies manufacturing	\$172.7	1.92	\$330.9	0.3	2.08	0.6	\$16.8	2.04	\$34.4
	Ophthalmic goods manufacturing	\$82.5	1.91	\$157.6	0.3	1.87	0.5	\$14.4	1.93	\$27.7
	Dental laboratories	\$139.3	1.99	\$277.6	1.0	1.62	1.6	\$46.1	1.76	\$81.3

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Iowa	Medical Technology	\$211.7	1.67	\$354.4	1.3	2.05	2.6	\$68.3	1.68	\$114.7
	Surgical and medical instrument manufacturing	\$27.5	1.61	\$44.4	0.2	2.26	0.4	\$10.2	1.63	\$16.6
	Surgical appliance and supplies manufacturing	\$119.5	1.66	\$198.0	0.5	2.31	1.0	\$28.8	1.75	\$50.5
	Dental equipment and supplies manufacturing	\$0.0	1.00	\$0.0	0.0	1.00	0.0	\$0.8	1.00	\$0.8
	Ophthalmic goods manufacturing	\$16.5	1.74	\$28.7	0.2	2.11	0.5	\$9.5	1.76	\$16.7
	Dental laboratories	\$48.1	1.73	\$83.4	0.4	1.67	0.7	\$19.1	1.58	\$30.1

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Kansas	Medical Technology	\$141.1	1.78	\$251.8	1.2	2.08	2.5	\$83.2	1.71	\$142.4
	Electromedical apparatus manufacturing	\$0.0	1.65	\$0.0	0.0	2.18	0.0	\$2.6	1.64	\$4.3
	Surgical and medical instrument manufacturing	\$0.0	1.67	\$0.0	0.3	2.43	0.7	\$24.9	1.68	\$41.9
	Surgical appliance and supplies manufacturing	\$74.3	1.72	\$128.1	0.3	2.22	0.8	\$20.4	1.81	\$37.0
	Dental equipment and supplies manufacturing	\$0.0	1.79	\$0.0	0.0	2.46	0.0	\$1.2	1.90	\$2.3
	Ophthalmic goods manufacturing	\$0.0	1.73	\$0.0	0.1	2.12	0.2	\$5.4	1.76	\$9.6
	Dental laboratories	\$66.8	1.85	\$123.7	0.5	1.74	0.8	\$28.7	1.65	\$47.4

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Kentucky	Medical Technology	\$322.5	1.84	\$594.3	2.2	2.08	4.6	\$150.0	1.86	\$279.2
	In-vitro diagnostic substance manufacturing	\$0.0	1.56	\$0.0	0.3	2.48	0.7	\$18.7	1.96	\$36.7
	Electromedical apparatus manufacturing	\$0.0	1.73	\$0.0	0.0	2.70	0.1	\$5.8	1.71	\$9.9
	Surgical and medical instrument manufacturing	\$0.0	1.77	\$0.0	0.1	2.62	0.4	\$17.4	1.78	\$30.9
	Surgical appliance and supplies manufacturing	\$214.6	1.82	\$391.0	0.9	2.03	1.8	\$58.5	1.90	\$111.3
	Dental equipment and supplies manufacturing	\$0.0	1.84	\$0.0	0.2	2.36	0.5	\$16.1	1.94	\$31.3
	Ophthalmic goods manufacturing	\$61.1	1.85	\$113.0	0.2	1.97	0.4	\$12.2	1.86	\$22.7
	Dental laboratories	\$46.8	1.93	\$90.2	0.5	1.66	0.7	\$21.3	1.71	\$36.4

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Louisiana	Medical Technology	\$154.1	1.74	\$268.0	1.3	1.83	2.4	\$63.8	1.76	\$112.0
	Electromedical apparatus manufacturing	\$2.1	1.60	\$3.3	0.0	2.59	0.0	\$2.3	1.62	\$3.8
	Irradiation apparatus manufacturing	\$0.0	1.64	\$0.0	0.0	1.93	0.1	\$2.2	1.55	\$3.5
	Surgical and medical instrument manufacturing	\$0.0	1.68	\$0.0	0.0	2.57	0.1	\$6.3	1.72	\$10.9
	Surgical appliance and supplies manufacturing	\$114.0	1.72	\$196.1	0.8	1.92	1.5	\$35.0	1.84	\$64.4
	Ophthalmic goods manufacturing	\$5.1	1.79	\$9.1	0.0	1.79	0.0	\$0.0	1.83	\$0.0
	Dental laboratories	\$32.9	1.81	\$59.4	0.4	1.53	0.7	\$17.9	1.65	\$29.5

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Maine	Medical Technology	\$735.0	1.63	\$1,199.8	2.4	2.43	5.9	\$199.8	1.98	\$396.3
	In-vitro diagnostic substance manufacturing	\$677.3	1.63	\$1,102.3	1.5	2.74	4.2	\$148.6	2.04	\$302.9
	Surgical appliance and supplies manufacturing	\$57.7	1.69	\$97.5	0.8	1.96	1.6	\$47.4	1.84	\$86.9
	Dental laboratories	\$0.0	1.83	\$0.0	0.1	1.70	0.1	\$3.9	1.68	\$6.5

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Maryland	Medical Technology	\$1,165.5	1.62	\$1,893.1	5.9	2.60	15.4	\$609.2	1.93	\$1,177.0
	In-vitro diagnostic substance manufacturing	\$0.0	1.67	\$0.0	3.4	3.07	10.4	\$376.2	2.08	\$783.7
	Electromedical apparatus manufacturing	\$0.0	1.57	\$0.0	0.2	2.50	0.6	\$31.7	1.61	\$51.0
	Surgical and medical instrument manufacturing	\$1,002.6	1.61	\$1,609.6	1.5	1.94	2.8	\$129.9	1.67	\$216.7
	Surgical appliance and supplies manufacturing	\$33.7	1.66	\$55.8	0.4	2.24	0.9	\$43.2	1.79	\$77.3
	Dental equipment and supplies manufacturing	\$1.9	1.66	\$3.1	0.1	2.21	0.1	\$5.7	1.82	\$10.5
	Ophthalmic goods manufacturing	\$57.4	1.68	\$96.6	0.0	1.71	0.0	\$1.0	1.76	\$1.7
	Dental laboratories	\$70.0	1.83	\$128.0	0.4	1.53	0.6	\$21.5	1.68	\$36.0

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Massachusetts	Medical Technology	\$6,572.4	1.77	\$11,615.3	18.4	2.53	46.6	\$2,223.3	1.88	\$4,183.5
	In-vitro diagnostic substance manufacturing	\$1,063.6	1.75	\$1,862.4	1.6	3.29	5.1	\$184.1	2.26	\$415.3
	Electromedical apparatus manufacturing	\$2,348.2	1.73	\$4,073.6	5.0	2.59	12.9	\$695.9	1.80	\$1,252.5
	Irradiation apparatus manufacturing	\$822.1	1.81	\$1,488.4	1.1	2.49	2.7	\$161.8	1.73	\$279.9
	Surgical and medical instrument manufacturing	\$1,434.7	1.76	\$2,526.7	6.6	2.49	16.5	\$781.1	1.85	\$1,444.1
	Surgical appliance and supplies manufacturing	\$376.0	1.82	\$682.7	2.4	2.44	5.8	\$261.5	2.01	\$524.8
	Dental equipment and supplies manufacturing	\$99.8	1.80	\$179.2	0.6	2.33	1.4	\$53.1	2.01	\$106.9
	Ophthalmic goods manufacturing	\$260.6	1.82	\$474.4	0.7	2.03	1.4	\$48.5	1.92	\$93.0
	Dental laboratories	\$167.4	1.96	\$327.9	0.5	1.75	0.9	\$37.2	1.80	\$67.0

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Michigan	Medical Technology	\$4,037.3	1.94	\$7,826.9	13.0	2.66	34.7	\$1,251.3	2.05	\$2,568.7
	In-vitro diagnostic substance manufacturing	\$0.0	1.76	\$0.0	0.0	3.68	0.2	\$6.0	2.26	\$13.5
	Electromedical apparatus manufacturing	\$307.8	1.87	\$576.2	0.4	3.01	1.3	\$48.6	1.88	\$91.1
	Irradiation apparatus manufacturing	\$0.0	2.01	\$0.0	0.0	2.94	0.1	\$1.9	1.85	\$3.5
	Surgical and medical instrument manufacturing	\$2,063.0	1.91	\$3,940.8	3.1	2.51	7.8	\$267.0	1.94	\$517.7
	Surgical appliance and supplies manufacturing	\$1,376.4	1.98	\$2,726.7	8.0	2.82	22.5	\$845.7	2.11	\$1,785.4
	Dental equipment and supplies manufacturing	\$55.7	1.98	\$110.1	0.2	2.66	0.6	\$17.4	2.14	\$37.1
	Ophthalmic goods manufacturing	\$99.9	1.95	\$195.2	0.1	2.37	0.3	\$10.2	1.99	\$20.4
	Dental laboratories	\$134.5	2.07	\$277.8	1.1	1.77	2.0	\$54.7	1.83	\$100.1

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Minnesota	Medical Technology	\$10,502.6	1.84	\$19,294.3	37.1	2.59	96.3	\$3,995.5	1.90	\$7,611.0
	In-vitro diagnostic substance manufacturing	\$905.0	1.73	\$1,568.2	2.4	3.43	8.2	\$329.0	2.22	\$730.8
	Electromedical apparatus manufacturing	\$3,599.9	1.82	\$6,546.7	15.5	2.81	43.6	\$1,953.4	1.84	\$3,601.0
	Surgical and medical instrument manufacturing	\$3,996.0	1.84	\$7,354.3	13.6	2.37	32.1	\$1,301.0	1.89	\$2,454.0
	Surgical appliance and supplies manufacturing	\$1,592.1	1.91	\$3,038.0	3.2	2.33	7.4	\$268.9	2.05	\$551.9
	Dental equipment and supplies manufacturing	\$9.7	1.90	\$18.5	0.1	1.96	0.3	\$8.7	2.07	\$18.0
	Ophthalmic goods manufacturing	\$286.1	1.90	\$543.4	1.6	2.23	3.5	\$92.6	1.95	\$180.8
	Dental laboratories	\$113.8	1.98	\$225.2	0.8	1.63	1.3	\$41.9	1.78	\$74.6

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Mississippi	Medical Technology	\$124.5	1.65	\$205.5	0.7	1.84	1.3	\$39.1	1.68	\$65.8
	Surgical and medical instrument manufacturing	\$100.8	1.63	\$164.1	0.4	1.90	0.7	\$21.1	1.66	\$35.0
	Surgical appliance and supplies manufacturing	\$0.0	1.67	\$0.0	0.2	1.98	0.3	\$10.3	1.78	\$18.3
	Dental laboratories	\$23.7	1.75	\$41.5	0.2	1.58	0.3	\$7.8	1.60	\$12.5

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Missouri	Medical Technology	\$1,236.7	1.82	\$2,249.1	3.5	2.35	8.3	\$247.1	1.94	\$480.5
	In-vitro diagnostic substance manufacturing	\$50.8	1.83	\$93.0	0.4	3.35	1.4	\$37.1	2.32	\$86.1
	Electromedical apparatus manufacturing	\$59.7	1.79	\$106.9	0.1	2.87	0.2	\$11.9	1.78	\$21.2
	Surgical and medical instrument manufacturing	\$908.4	1.80	\$1,637.4	0.8	2.35	1.9	\$68.3	1.82	\$124.3
	Surgical appliance and supplies manufacturing	\$115.9	1.88	\$218.0	1.3	2.39	3.0	\$81.6	1.99	\$162.4
	Dental equipment and supplies manufacturing	\$101.8	1.90	\$193.9	0.0	2.23	0.0	\$0.0	2.03	\$0.0
	Dental laboratories	\$0.0	2.05	\$0.0	1.0	1.85	1.8	\$48.1	1.80	\$86.6

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Montana	Medical Technology	\$53.3	1.59	\$84.6	0.7	1.68	1.2	\$35.4	1.62	\$57.3
	Electromedical apparatus manufacturing	\$0.0	1.46	\$0.0	0.0	1.90	0.1	\$2.9	1.49	\$4.3
	Surgical appliance and supplies manufacturing	\$19.2	1.54	\$29.6	0.4	1.72	0.6	\$17.4	1.64	\$28.6
	Dental equipment and supplies manufacturing	\$20.8	1.54	\$32.0	0.2	1.71	0.3	\$7.9	1.66	\$13.1
	Dental laboratories	\$13.4	1.72	\$23.0	0.1	1.49	0.2	\$7.2	1.56	\$11.3

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Nebraska	Medical Technology	\$39.8	1.76	\$70.2	0.9	2.06	1.8	\$62.1	1.76	\$109.1
	Surgical appliance and supplies manufacturing	\$0.0	1.70	\$0.0	0.6	2.22	1.3	\$46.0	1.80	\$83.0
	Ophthalmic goods manufacturing	\$39.8	1.76	\$70.2	0.0	1.89	0.0	\$0.0	1.79	\$0.0
	Dental laboratories	\$0.0	1.78	\$0.0	0.3	1.69	0.4	\$16.1	1.62	\$26.2

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Nevada	Medical Technology	\$148.8	1.68	\$249.7	0.7	1.65	1.2	\$46.0	1.66	\$76.4
	Electromedical apparatus manufacturing	\$21.1	1.59	\$33.5	0.0	1.95	0.0	\$0.0	1.60	\$0.0
	Surgical and medical instrument manufacturing	\$17.0	1.57	\$26.6	0.2	1.77	0.3	\$13.5	1.60	\$21.7
	Surgical appliance and supplies manufacturing	\$64.0	1.62	\$103.9	0.2	1.75	0.4	\$14.5	1.73	\$25.0
	Dental laboratories	\$46.7	1.84	\$85.7	0.4	1.54	0.6	\$18.0	1.65	\$29.8

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
New Hampshire	Medical Technology	\$1,207.3	1.71	\$2,066.7	2.4	2.17	5.3	\$203.2	1.83	\$372.4
	Electromedical apparatus manufacturing	\$522.3	1.68	\$878.4	0.3	2.35	0.7	\$30.4	1.74	\$53.0
	Surgical and medical instrument manufacturing	\$399.1	1.70	\$679.3	1.2	2.10	2.6	\$102.0	1.79	\$182.2
	Surgical appliance and supplies manufacturing	\$270.0	1.78	\$480.1	0.9	2.27	1.9	\$66.0	1.95	\$128.9
	Dental equipment and supplies manufacturing	\$2.0	1.73	\$3.5	0.0	2.07	0.0	\$0.0	1.93	\$0.0
	Dental laboratories	\$13.8	1.84	\$25.4	0.1	1.62	0.1	\$4.8	1.71	\$8.3

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
New Jersey	Medical Technology	\$6,534.0	1.88	\$12,291.9	14.6	2.74	40.1	\$1,845.9	2.07	\$3,815.2
	In-vitro diagnostic substance manufacturing	\$1,430.7	1.84	\$2,635.6	1.9	3.76	7.3	\$228.7	2.42	\$552.5
	Electromedical apparatus manufacturing	\$1,035.9	1.82	\$1,881.3	1.7	2.62	4.5	\$195.7	1.84	\$360.5
	Surgical and medical instrument manufacturing	\$986.3	1.85	\$1,821.6	2.3	2.69	6.3	\$306.4	1.91	\$583.9
	Surgical appliance and supplies manufacturing	\$2,695.9	1.92	\$5,188.8	6.7	2.66	17.7	\$972.5	2.09	\$2,027.7
	Dental equipment and supplies manufacturing	\$135.3	1.95	\$263.5	1.0	2.44	2.4	\$82.0	2.13	\$174.7
	Ophthalmic goods manufacturing	\$139.1	1.91	\$265.6	0.2	1.93	0.4	\$12.9	1.98	\$25.6
	Dental laboratories	\$110.7	2.13	\$235.6	0.7	1.90	1.4	\$47.7	1.89	\$90.3

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
New Mexico	Medical Technology	\$0.0	1.00	\$0.0	0.5	1.67	0.8	\$23.0	1.56	\$35.9
	Surgical and medical instrument manufacturing	\$0.0	1.47	\$0.0	0.0	2.02	0.1	\$4.2	1.52	\$6.4
	Surgical appliance and supplies manufacturing	\$0.0	1.49	\$0.0	0.3	1.68	0.5	\$14.4	1.59	\$22.9
	Dental laboratories	\$0.0	1.64	\$0.0	0.1	1.49	0.2	\$4.3	1.51	\$6.5

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
New York	Medical Technology	\$5,906.4	1.65	\$9,739.8	16.5	1.86	30.6	\$1,296.2	1.66	\$2,151.8
	In-vitro diagnostic substance manufacturing	\$1,374.8	1.66	\$2,286.9	0.8	2.37	1.8	\$64.7	2.07	\$133.6
	Electromedical apparatus manufacturing	\$1,225.6	1.59	\$1,952.4	1.4	1.86	2.6	\$125.5	1.58	\$198.0
	Irradiation apparatus manufacturing	\$259.5	1.66	\$431.0	1.4	2.03	2.9	\$142.8	1.53	\$218.7
	Surgical and medical instrument manufacturing	\$1,365.2	1.61	\$2,191.7	4.3	1.84	8.0	\$357.3	1.61	\$575.2
	Surgical appliance and supplies manufacturing	\$564.4	1.66	\$934.8	2.8	1.83	5.1	\$185.5	1.73	\$320.8
	Dental equipment and supplies manufacturing	\$289.8	1.69	\$491.0	0.7	2.01	1.4	\$54.9	1.79	\$98.1
	Ophthalmic goods manufacturing	\$476.8	1.68	\$800.1	2.2	1.89	4.1	\$188.8	1.68	\$318.0
	Dental laboratories	\$350.4	1.86	\$651.9	2.9	1.65	4.7	\$176.8	1.64	\$289.5

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

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INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
North Carolina	Medical Technology	\$1,708.1	1.98	\$3,374.8	8.7	2.38	20.7	\$642.7	2.01	\$1,292.8
	In-vitro diagnostic substance manufacturing	\$0.0	1.87	\$0.0	0.1	2.95	0.2	\$5.2	2.39	\$12.4
	Electromedical apparatus manufacturing	\$105.8	1.83	\$194.0	1.0	2.52	2.6	\$97.0	1.84	\$178.7
	Surgical and medical instrument manufacturing	\$594.5	1.93	\$1,150.4	3.1	2.32	7.1	\$228.8	1.97	\$450.5
	Surgical appliance and supplies manufacturing	\$714.1	2.01	\$1,434.4	3.2	2.53	8.1	\$228.1	2.15	\$490.6
	Dental equipment and supplies manufacturing	\$135.7	1.97	\$266.8	0.2	2.70	0.4	\$16.2	2.14	\$34.5
	Ophthalmic goods manufacturing	\$11.5	1.98	\$22.8	0.1	2.29	0.1	\$4.4	2.03	\$9.0
	Dental laboratories	\$146.4	2.09	\$306.5	1.1	1.90	2.1	\$63.1	1.86	\$117.1

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
North Dakota	Medical Technology	\$14.4	1.50	\$21.6	0.2	1.58	0.3	\$11.0	1.54	\$16.9
	Electromedical apparatus manufacturing	\$0.0	1.45	\$0.0	0.0	1.79	0.1	\$2.5	1.49	\$3.7
	Surgical appliance and supplies manufacturing	\$14.4	1.50	\$21.6	0.1	1.66	0.1	\$3.8	1.60	\$6.0
	Dental laboratories	\$0.0	1.64	\$0.0	0.1	1.45	0.1	\$4.7	1.52	\$7.1

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Ohio	Medical Technology	\$3,930.2	1.97	\$7,754.8	9.7	2.68	25.9	\$672.1	2.00	\$1,347.6
	Electromedical apparatus manufacturing	\$1,213.0	1.90	\$2,310.3	1.8	2.65	4.9	\$167.5	1.89	\$317.0
	Irradiation apparatus manufacturing	\$0.0	2.01	\$0.0	0.3	2.35	0.6	\$21.7	1.82	\$39.5
	Surgical and medical instrument manufacturing	\$813.1	1.96	\$1,593.9	2.1	2.97	6.3	\$160.2	1.98	\$316.5
	Surgical appliance and supplies manufacturing	\$1,570.7	2.03	\$3,183.4	4.3	2.76	11.9	\$263.2	2.15	\$564.8
	Ophthalmic goods manufacturing	\$333.4	2.00	\$667.2	0.0	2.43	0.0	\$0.0	2.03	\$0.0
	Dental laboratories	\$0.0	2.10	\$0.0	1.2	1.94	2.3	\$59.6	1.84	\$109.9

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Oklahoma	Medical Technology	\$348.4	1.71	\$595.8	1.0	2.03	2.1	\$87.0	1.80	\$156.6
	Electromedical apparatus manufacturing	\$0.0	1.66	\$0.0	0.2	2.70	0.5	\$18.0	1.68	\$30.4
	Surgical and medical instrument manufacturing	\$240.4	1.68	\$403.2	0.0	1.99	0.0	\$0.0	1.73	\$0.0
	Surgical appliance and supplies manufacturing	\$71.2	1.74	\$124.1	0.4	2.21	0.9	\$50.5	1.87	\$94.6
	Dental equipment and supplies manufacturing	\$0.0	1.76	\$0.0	0.0	1.97	0.0	\$0.6	1.91	\$1.1
	Dental laboratories	\$36.8	1.86	\$68.5	0.4	1.57	0.6	\$18.0	1.70	\$30.5

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Oregon	Medical Technology	\$1,397.0	1.79	\$2,501.7	4.7	1.94	9.1	\$334.2	1.90	\$634.8
	Electromedical apparatus manufacturing	\$125.3	1.69	\$211.6	0.5	2.08	1.0	\$36.7	1.72	\$63.0
	Surgical and medical instrument manufacturing	\$316.4	1.72	\$544.8	0.1	2.49	0.2	\$14.0	1.77	\$24.8
	Surgical appliance and supplies manufacturing	\$231.7	1.80	\$417.8	1.5	1.95	2.8	\$101.1	1.93	\$195.4
	Dental equipment and supplies manufacturing	\$567.7	1.81	\$1,029.1	1.8	2.01	3.6	\$137.2	1.98	\$271.1
	Ophthalmic goods manufacturing	\$37.5	1.74	\$65.1	0.2	1.75	0.4	\$12.7	1.81	\$22.9
	Dental laboratories	\$118.4	1.97	\$233.3	0.7	1.58	1.0	\$32.6	1.76	\$57.5

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Pennsylvania	Medical Technology	\$6,910.6	1.91	\$13,216.9	18.8	2.24	42.1	\$1,511.6	1.98	\$2,989.9
	In-vitro diagnostic substance manufacturing	\$63.7	1.86	\$118.5	0.7	3.32	2.2	\$63.5	2.39	\$151.8
	Electromedical apparatus manufacturing	\$3,130.2	1.87	\$5,851.6	3.8	2.31	8.8	\$318.2	1.87	\$595.7
	Irradiation apparatus manufacturing	\$0.0	2.00	\$0.0	0.2	2.53	0.6	\$21.3	1.83	\$39.1
	Surgical and medical instrument manufacturing	\$1,880.2	1.91	\$3,591.3	7.8	2.27	17.7	\$704.4	1.94	\$1,367.8
	Surgical appliance and supplies manufacturing	\$1,312.4	1.97	\$2,588.7	3.9	2.18	8.5	\$278.8	2.10	\$586.8
	Dental equipment and supplies manufacturing	\$240.9	1.99	\$479.0	0.6	2.08	1.3	\$38.6	2.15	\$82.9
	Ophthalmic goods manufacturing	\$77.4	1.96	\$151.7	0.6	1.83	1.1	\$31.0	1.99	\$61.7
	Dental laboratories	\$205.9	2.12	\$436.1	1.1	1.63	1.8	\$55.8	1.87	\$104.1

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Rhode Island	Medical Technology	\$386.1	1.71	\$659.6	1.6	2.11	3.3	\$106.9	1.74	\$185.5
	Electromedical apparatus manufacturing	\$60.4	1.65	\$99.4	0.6	1.99	1.2	\$32.7	1.67	\$54.4
	Surgical and medical instrument manufacturing	\$93.5	1.68	\$157.5	0.6	2.10	1.2	\$52.8	1.73	\$91.4
	Surgical appliance and supplies manufacturing	\$190.9	1.73	\$329.5	0.3	2.34	0.8	\$21.5	1.85	\$39.8
	Ophthalmic goods manufacturing	\$29.4	1.76	\$51.7	0.0	1.72	0.0	\$0.0	1.80	\$0.0
	Dental laboratories	\$11.9	1.81	\$21.6	0.0	1.58	0.0	\$0.0	1.65	\$0.0

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
South Carolina	Medical Technology	\$837.4	1.86	\$1,555.7	4.0	2.60	10.5	\$343.3	1.91	\$656.8
	In-vitro diagnostic substance manufacturing	\$0.0	1.70	\$0.0	0.0	3.84	0.0	\$1.4	2.16	\$3.0
	Electromedical apparatus manufacturing	\$608.7	1.82	\$1,110.7	1.0	2.62	2.7	\$99.3	1.81	\$180.0
	Surgical and medical instrument manufacturing	\$0.0	1.91	\$0.0	1.7	2.54	4.3	\$142.0	1.92	\$272.2
	Surgical appliance and supplies manufacturing	\$228.7	1.95	\$445.0	0.9	2.95	2.6	\$74.0	2.05	\$151.6
	Dental equipment and supplies manufacturing	\$0.0	1.94	\$0.0	0.1	2.89	0.2	\$7.3	2.06	\$15.1
	Ophthalmic goods manufacturing	\$0.0	1.97	\$0.0	0.0	2.49	0.1	\$2.9	1.98	\$5.8
	Dental laboratories	\$0.0	2.04	\$0.0	0.3	1.87	0.6	\$16.3	1.80	\$29.2

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
South Dakota	Medical Technology	\$12.3	1.69	\$20.8	0.1	1.54	0.2	\$6.9	1.57	\$10.9
	Surgical and medical instrument manufacturing	\$0.0	1.57	\$0.0	0.1	1.77	0.1	\$3.0	1.60	\$4.9
	Dental laboratories	\$12.3	1.69	\$20.8	0.1	1.41	0.1	\$3.9	1.55	\$6.0

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

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INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Tennessee	Medical Technology	\$3,662.7	2.11	\$7,734.7	10.0	2.88	28.7	\$941.4	2.15	\$2,026.2
	Electromedical apparatus manufacturing	\$41.2	1.94	\$80.1	1.2	3.00	3.5	\$138.3	1.93	\$267.1
	Irradiation apparatus manufacturing	\$0.0	2.04	\$0.0	0.1	2.47	0.2	\$7.1	1.84	\$13.1
	Surgical and medical instrument manufacturing	\$481.1	2.03	\$978.3	1.0	3.03	2.9	\$105.7	2.05	\$216.4
	Surgical appliance and supplies manufacturing	\$2,628.2	2.11	\$5,554.7	6.8	2.98	20.2	\$639.7	2.24	\$1,431.8
	Dental equipment and supplies manufacturing	\$61.3	2.07	\$126.8	0.0	2.29	0.0	\$0.0	2.23	\$0.0
	Ophthalmic goods manufacturing	\$17.8	2.08	\$37.0	0.0	2.20	0.0	\$0.0	2.11	\$0.0
	Dental laboratories	\$433.2	2.21	\$957.8	1.0	1.95	1.9	\$50.7	1.93	\$97.8

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Texas	Medical Technology	\$7,291.7	2.04	\$14,907.9	18.8	2.76	51.9	\$1,573.1	2.11	\$3,324.3
	In-vitro diagnostic substance manufacturing	\$488.3	1.90	\$928.0	0.3	3.76	1.2	\$29.7	2.49	\$73.9
	Electromedical apparatus manufacturing	\$2,122.8	2.02	\$4,296.4	3.0	3.39	10.3	\$371.6	2.03	\$752.7
	Irradiation apparatus manufacturing	\$0.0	2.09	\$0.0	0.2	2.54	0.5	\$21.3	1.91	\$40.8
	Surgical and medical instrument manufacturing	\$2,191.9	2.01	\$4,411.3	5.4	2.59	14.0	\$432.6	2.05	\$885.7
	Surgical appliance and supplies manufacturing	\$1,710.1	2.07	\$3,539.5	3.4	3.07	10.5	\$306.7	2.22	\$679.7
	Dental equipment and supplies manufacturing	\$124.4	2.18	\$271.2	0.9	3.17	2.7	\$82.1	2.37	\$194.2
	Ophthalmic goods manufacturing	\$317.9	2.14	\$681.5	3.4	2.40	8.1	\$213.1	2.18	\$463.9
	Dental laboratories	\$336.2	2.32	\$780.0	2.2	2.08	4.5	\$115.9	2.01	\$233.4

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Utah	Medical Technology	\$4,164.1	1.83	\$7,627.4	14.1	2.26	31.9	\$1,106.8	1.85	\$2,052.8
	Electromedical apparatus manufacturing	\$830.9	1.76	\$1,461.6	0.5	2.58	1.3	\$46.6	1.77	\$82.6
	Irradiation apparatus manufacturing	\$0.0	1.82	\$0.0	1.8	2.41	4.2	\$160.0	1.70	\$271.8
	Surgical and medical instrument manufacturing	\$2,898.9	1.83	\$5,303.9	9.2	2.25	20.7	\$721.7	1.87	\$1,347.6
	Surgical appliance and supplies manufacturing	\$254.3	1.91	\$485.5	1.4	2.40	3.4	\$111.9	2.04	\$228.2
	Dental laboratories	\$180.0	2.09	\$376.5	1.3	1.78	2.3	\$66.7	1.84	\$122.6

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

Note: These sources do not report select industry / subsector revenue, employment, and salary data for individual states where necessary to avoid disclosing data for individual companies.

INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Vermont	Medical Technology	\$32.3	1.49	\$48.1	0.6	1.77	1.0	\$35.1	1.66	\$58.2
	Electromedical apparatus manufacturing	\$32.3	1.49	\$48.1	0.0	2.03	0.0	\$0.0	1.52	\$0.0
	Surgical and medical instrument manufacturing	\$0.0	1.56	\$0.0	0.3	1.78	0.5	\$20.4	1.61	\$32.8
	Surgical appliance and supplies manufacturing	\$0.0	1.61	\$0.0	0.3	1.76	0.5	\$14.7	1.72	\$25.4

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

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INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Virginia	Medical Technology	\$824.7	1.73	\$1,424.8	4.1	1.97	8.2	\$349.9	1.76	\$616.8
	Electromedical apparatus manufacturing	\$70.4	1.64	\$115.3	0.2	2.25	0.5	\$23.1	1.66	\$38.3
	Irradiation apparatus manufacturing	\$0.0	1.67	\$0.0	0.1	2.01	0.3	\$12.7	1.57	\$19.9
	Surgical and medical instrument manufacturing	\$477.9	1.69	\$807.8	1.2	2.22	2.7	\$136.0	1.73	\$235.0
	Surgical appliance and supplies manufacturing	\$132.3	1.75	\$231.6	1.3	1.90	2.5	\$94.4	1.87	\$176.4
	Dental equipment and supplies manufacturing	\$21.1	1.77	\$37.4	0.1	2.47	0.2	\$8.1	1.92	\$15.6
	Ophthalmic goods manufacturing	\$6.0	1.75	\$10.4	0.3	1.92	0.6	\$25.4	1.80	\$45.8
	Dental laboratories	\$117.0	1.90	\$222.3	0.9	1.62	1.4	\$50.1	1.71	\$85.8

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

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INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Washington	Medical Technology	\$2,992.8	1.68	\$5,039.1	7.7	2.19	16.7	\$832.3	1.74	\$1,446.3
	In-vitro diagnostic substance manufacturing	\$150.8	1.72	\$258.9	0.5	2.83	1.3	\$49.4	2.15	\$106.1
	Electromedical apparatus manufacturing	\$2,123.9	1.65	\$3,514.5	3.7	2.42	8.9	\$498.8	1.68	\$837.6
	Irradiation apparatus manufacturing	\$6.3	1.70	\$10.7	0.0	1.96	0.0	\$0.0	1.60	\$0.0
	Surgical and medical instrument manufacturing	\$149.8	1.67	\$250.7	0.8	2.30	1.8	\$112.8	1.71	\$193.2
	Surgical appliance and supplies manufacturing	\$305.0	1.73	\$527.1	1.4	1.85	2.5	\$99.3	1.84	\$183.0
	Dental equipment and supplies manufacturing	\$13.9	1.79	\$24.8	0.1	1.80	0.2	\$8.0	1.93	\$15.4
	Ophthalmic goods manufacturing	\$78.9	1.73	\$136.4	0.2	1.74	0.4	\$14.4	1.78	\$25.7
	Dental laboratories	\$164.2	1.93	\$316.1	1.0	1.56	1.5	\$49.6	1.72	\$85.4

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INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
West Virginia	Medical Technology	\$294.1	1.53	\$451.3	0.8	1.72	1.4	\$59.4	1.66	\$98.5
	Surgical and medical instrument manufacturing	\$0.0	1.51	\$0.0	0.0	2.25	0.0	\$2.8	1.58	\$4.4
	Surgical appliance and supplies manufacturing	\$294.1	1.53	\$451.3	0.7	1.73	1.2	\$53.7	1.67	\$89.7
	Dental laboratories	\$0.0	1.59	\$0.0	0.1	1.41	0.1	\$2.9	1.52	\$4.4

Figures 14–19 utilize RIMS II multipliers from the Bureau of Economic Analysis and data from the 2023 Economic Census.

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INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Wisconsin	Medical Technology	\$3,071.5	1.81	\$5,548.2	11.5	2.28	26.3	\$1,021.2	1.84	\$1,875.5
	In-vitro diagnostic substance manufacturing	\$0.0	1.75	\$0.0	0.4	3.25	1.3	\$42.3	2.21	\$93.8
	Electromedical apparatus manufacturing	\$1,263.3	1.78	\$2,244.6	0.8	2.71	2.1	\$83.6	1.79	\$149.7
	Irradiation apparatus manufacturing	\$0.0	1.91	\$0.0	3.4	2.76	9.3	\$462.2	1.78	\$821.0
	Surgical and medical instrument manufacturing	\$628.5	1.78	\$1,117.8	2.8	2.01	5.6	\$194.6	1.82	\$353.2
	Surgical appliance and supplies manufacturing	\$612.5	1.85	\$1,131.6	1.8	2.04	3.7	\$114.5	1.97	\$225.4
	Dental equipment and supplies manufacturing	\$319.1	1.84	\$588.1	0.9	2.01	1.8	\$52.5	1.99	\$104.7
	Ophthalmic goods manufacturing	\$118.8	1.81	\$214.7	0.5	1.78	0.8	\$24.0	1.86	\$44.7
	Dental laboratories	\$129.3	1.94	\$251.4	1.0	1.64	1.6	\$47.5	1.75	\$82.9

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INDIRECT STATE EFFECTS OF MTI – FIGURE 19 (CONT)

STATE LEVEL EFFECTS

FIGURE 19: State-Level Multipliers and Estimated Effects

State	Industry / Subsector	Revenue (\$ millions)	Revenue Multiplier	State Revenue Effect (\$ millions)	Jobs (1,000s)	Jobs Multiplier	State Jobs Effect (1,000s)	Payroll (\$ millions)	Payroll Multiplier	State Payroll Effect (\$ millions)
Wyoming	Medical Technology	\$0.0	1.51	\$0.0	0.0	1.52	0.0	\$0.4	1.40	\$0.5
	Dental laboratories	\$0.0	1.51	\$0.0	0.0	1.52	0.0	\$0.4	1.40	\$0.5

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