

LECOM HEALTH

Transforming Medicine

Economic and Social Impact of
LECOM Health on the United States



TABLE OF CONTENTS

About the Study	3
History of LECOM Health	4
LECOM Transformed Health Care	8
Overall Impact of LECOM Health on the United States	9
Impacts on the State of Pennsylvania	13
Impacts on Erie County, Pennsylvania	15
Impacts on Westmoreland County, Pennsylvania	18
Impacts on the State of Florida	20
Impacts on Manatee County, Florida	23
Impacts on Walton County, Florida	24
Impacts on the State of New York	25
Impacts on Chemung County, New York	27
Impacts on Health and Wellbeing	28
Conclusion	28
Appendix A: Methodology	29
Appendix B: Report Terms	30
Appendix C: Tripp Umbach Qualifications	31



ABOUT THE STUDY

Lake Erie College of Osteopathic Medicine (LECOM) retained Tripp Umbach to conduct an economic impact study update that quantifies the economic impact of its operations nationally over the past 30 years. Tripp Umbach has measured the economic impact of LECOM Health since 2009. Using historical data and projections provided by LECOM Health, this report quantifies the growth in economic impact of LECOM Health over the period 1992 through 2022. This special 30th anniversary report tells how a community hospital in Erie, Pennsylvania, gave birth to a transformative medical school at a time when most experts believed that the United States had a surplus of physicians.

HISTORY OF LECOM HEALTH

The mission of providing excellence in medical education began as do all great enterprises - with a need answered by a visionary solution.

The journey began in September 1988, when the Board of Trustees of Millcreek Community Hospital (MCH), presciently recognizing a need not seen by others in the medical community, conducted a strategic planning retreat and subsequent task force to establish a new hospital mission that emphasized the need for educating osteopathic physicians to provide medical services to underserved areas across Northwestern Pennsylvania.

The Lake Erie College of Osteopathic Medicine (LECOM) was established as the 16th college of osteopathic medicine in the nation with its receipt of a Commonwealth of Pennsylvania Charter in December 1992.

With the graduation of the LECOM inaugural class in 1997, the College received full accreditation from the American Osteopathic Association. Since that time, LECOM has granted the Doctor of Osteopathic Medicine (DO) Degree to more than 9,000 graduates.

For three decades, LECOM has realized its foundational promise under the skillful and steady direction of its President and CEO, John M. Ferretti, D.O., who has established, expanded, and advanced the LECOM mission.

Dr. Ferretti is a Board Certified Internist who was among the College founders and who is a nationally recognized leader in osteopathic medicine. Dr. Ferretti's visionary leadership of the whole of the Institution has ushered in an era of national prominence and unprecedented growth.

In 2000, within a period of only eight years after its founding, LECOM experienced an intensity of rapid growth as a small group of first-year medical students arrived as pioneers in a new Learning Pathway. LECOM would be the first of its kind to introduce an effectively innovative approach to medical education, Problem-Based Learning (PBL). By working in small groups through a paradigm of self-directed study, PBL students are tasked to think clinically and to solve problems in the same way in which a physician diagnoses a patient.

By 2002, College growth and enrollment required LECOM to triple the size of the original medical school building. With the acquisition of the neighboring LORD Corporation (now LECOM West) property in 2011, the College is now expansively situated along West Grandview Boulevard where a park-like, 53-acre campus boasts an excellent view of Lake Erie.

A continually growing medical and wellness campus has expanded exponentially to become LECOM Health, the only health system in the United States with an Osteopathic Academic Health Center. The College, Millcreek Community Hospital, and Medical Associates of Erie - the clinical practice network of physician offices located in Erie County - form the core of this highly innovative medical education and patient care system.

The addition of a School of Pharmacy in 2001 offered an unique three-year, accelerated curriculum and lauded its inaugural class commencement in 2005. The LECOM School of Pharmacy has since granted the Doctor of Pharmacy (PharmD) degree to more than 4000 graduates.

LECOM continued its role in the vanguard of national leadership in osteopathic medicine by developing a branch campus in Bradenton, Florida. LECOM Bradenton welcomed its first class of medical students in 2004. With the enrollment of the Bradenton Class of 2011, LECOM became the largest medical college in the nation. In 2007, the School of Pharmacy also expanded to Florida, offering a traditional four-year Doctor of Pharmacy degree curriculum.

In keeping with its proven tradition of leading the field in medical education, LECOM initiated the Masters of Science in Medical Education Degree Program at the Erie campus in 2005. This postgraduate course became the first distance education program at LECOM, training physicians to become teachers and leaders in the clinical education of future physicians. LECOM also recognized the need for professors who could teach anatomy, one of the vital basic sciences required in medical education, so the College introduced a Doctor of Philosophy (Ph.D.) in Anatomy Education.

To further the education of potential medical, pharmacy, dental, and podiatry school recruits, the College also offers the Masters of Science in Biomedical Sciences Degree, a Masters in Medical Science Degree, and the Health Sciences Post Baccalaureate Certificate.

LECOM added two accelerated programs in the medical college: the Primary Care Scholars Pathway (in 2007), and the Accelerated Physicians Pathway (in 2011). These Programs allow qualified students to complete the Doctor of Osteopathic Medicine Degree in just three years.

The vision of LECOM continued in 2009, with the extension of LECOM Erie to the campus of the private liberal arts institution of Seton Hill University in Greensburg, Pennsylvania.

In 2012, the LECOM School of Dental Medicine welcomed students in Bradenton. These scholars undertake three years of academic and basic clinical training at LECOM Bradenton, completing their fourth year of study at community-based dental outreach offices in DeFuniak Springs, Florida and in Erie, Pennsylvania - sites chosen, in part, because of the enduring LECOM commitment to provide care where it is most needed.

LECOM added two Distance Education Pathways in 2014. The first was for the School of Pharmacy allowing students to learn at home and coming to campus for only a few weeks each summer to fulfill the laboratory, casework, and presentation portions of the curriculum. The second Distance Education Pathway added in 2014 was the Masters in Health Services Administration. This program provides the opportunity for professionals aspiring to take leadership roles in the administration of hospitals, clinical practices, and other healthcare facilities.

With the 2009 opening of the John M. and Silvia Ferretti Medical Fitness and Wellness Center, the College founded a medically integrated wellness center that not only serves the fitness and medical education needs of LECOM students and employees of LECOM Health, but one that also offers to the populace of Erie County an opportunity to pursue a better quality of life through prevention and wellness.

In 2015, the LECOM Institute for Successful Aging opened the 144-bed LECOM Senior Living Center adjacent to Millcreek Community Hospital. The welcoming and homelike environment, coupled with a skilled nursing facility, is the next generation of innovative, compassionate, and comprehensive health care designed specifically for older adults.

As part of the LECOM commitment to wellness for this growing age group, LECOM purchased Parkside Senior Living Communities consisting of three independent living and personal care apartment complexes, located in Erie, North East, and Millcreek, Pennsylvania.

LECOM met the new year of 2016 with multiple acquisitions, including Corry Memorial Hospital, LECOM Nursing and Rehabilitation Center, and the Visiting Nurse Association of Erie County. Growth continued in 2017, as LECOM Health (joined by Allegheny Health Network) became a partner with Warren General Hospital in Warren, Pennsylvania.

In 2018, LECOM announced the formation of the LECOM School of Health Services Administration (SHSA), which teaches the business of healthcare and prepares future leaders to meet the evolving need for competent and well-trained administrators and providers. The SHSA offers an abundant array of Masters Programs including: the Masters in Health Services Administration (MHSA), the Master of Science in Biomedical Ethics (MSBE); the Masters in Public Health (MPH); and the Master of Science in Medical Cannabinoid Therapeutics (MS MCT).

The LECOM Graduate School of Biomedical Sciences was established to provide educational and research opportunities for students in a variety of different career paths. Degrees offered include the Master of Medical Science (MMS), the Master of Science in Biomedical Science (MSBS), the Master of Science in Medical Education (MSME), the Doctorate of Anatomy Education, the Doctorate of Medical Microbiology Education, the Doctorate of Pharmacy Education, and the Doctorate of Medical Education.

LECOM expanded its educational nexus to New York State when, in 2020, LECOM at Elmira welcomed 120 first-year medical students to its newest campus, an expansive, 49,000 square foot state-of-the-art academic building on the Elmira College campus.

In 2019, providing expanded healthcare options to area residents, Corry Memorial Hospital (CMH), an affiliate of LECOM Health, opened the Corry Medical Arts Building, a state-of-the-art facility that houses the Corry Rural Health Clinic with offices for primary care and specialty physicians.

Also in 2019, LECOM Health opened an outpatient pharmacy and it acquired Colonial Family Pharmacy, branding both as Colonial Family Pharmacy.

In 2020, as the third largest behavioral health care provider in Pennsylvania, and the largest provider of outpatient services in Northwest Pennsylvania, LECOM Health consolidated many of its mental health services. With the opening of the LECOM Institute for Behavioral Health, outpatient psychiatric care and medication management became readily accessible from a team of nine psychiatrists, as well as from expert counselors and compassionate support staff at the Institute and at MCH.

The newly affiliated Achievement Center of LECOM Health provides quality therapeutic services designed to meet the needs of children and adolescents who are experiencing emotional, social, physical, or behavioral challenges.

In 2021, LECOM combined the resources of LECOM Health and Corry Counseling Services to further expand behavioral healthcare options, particularly in rural and underserved locales.

Furthering its enduring pledge to the healthful improvement of underserved areas, LECOM opened the Union City Rural Health Clinic in 2020.

LECOM consistently broadens and deepens its educational objectives, adding the Doctor of Healthcare Administration (DHA) Program in 2020; and in 2021 implementing the Master of Science in Nursing – Clinical Nurse Leader (MSN-CNL) Program to assure that the care provided is effective and responsive to patient needs.

LECOM Health opened its newest senior residential facility in 2020 with Parkside at Corry - featuring 39 spacious and beautifully designed apartment homes offering an independent and healthful senior lifestyle.

In 2021, LECOM purchased the former Porreco College of Edinboro University utilizing the 28-acre campus as a place for academic instruction and for student gatherings. The newly named LECOM Education Center offers classrooms for the Problem Based Learning and Directed Study Programs, a spacious outdoor wellness and recreation area, and a state-of-the-art Clinical Simulation Lab.

Late in 2022, LECOM Health purchased Independence Court, an Erie-based assisted living facility, adding to its already vast nexus of healthcare living options. The newly named Parkside at Glenwood offers enhanced personal care and a memory care unit.

Also in 2022, and in keeping with the commitment that has defined its cutting-edge success, LECOM opened a School of Podiatric Medicine (SPM), and accepted students for the fall semester of 2023.

The LECOM-SPM is the eleventh podiatric medical school in the United States. The four-year program, established at the LECOM main campus in Erie, offers unique curricular collaboration with the LECOM College of Osteopathic Medicine and extensive clinical learning within its regional academic health system to meet the need for podiatric doctors throughout the United States.

In 2023, the LECOM Ambulatory Surgery Center will open in Erie. A 23,000 square-foot facility supporting a full range of innovative care, the Center will engage multidisciplinary specialists, bringing together cutting-edge medicine and compassionate care to treat the whole patient.

Also in 2023, LECOM will enlarge and update Millcreek Community Hospital (MCH) as it continues to meet the needs of the Erie region in the 21st century. An expansion of 34,000-square feet across two stories includes a new emergency room, an intensive care unit, 20 medical surgical beds, and a state-of-the-art cardiovascular laboratory. The well-equipped space will address community behavioral health needs and medical-surgical emergencies, and it will aid infection control in the event of a future pandemic.

Now, in its 30th year, LECOM has established an unassailable reputation as a leader in medical education and patient care, with its graduates highly sought after in the fields of medicine, pharmacy, dentistry, and podiatric medicine. LECOM also has set the standard for affordable education in a private medical college setting where graduates achieve outstanding board scores and journey forward to make a difference in the field of healthcare.

Coupled with its superlative curriculum, the character of those who practice their noble profession is at the heart of a LECOM education. Those in leadership understood that a physician embodies honor, professional appearance, purposeful action, and responsible behavior. The College adopted an honor code, a dress code for classroom and clinic, and professional policies that inculcate respect for the faculty, colleagues, and classmates.

The visionary leaders of medicine who founded LECOM sought to develop the core attributes that define a healthcare professional: the credo of the calling; the intrinsic purpose of the healer; and the foundation of that which carries a physician to seek the best version of himself or herself - for each defines the future of medicine and the legacy that is LECOM.

LECOM TRANSFORMED HEALTH CARE

LECOM is credited for beginning a dramatic wave of new medical schools that have significantly increased the number of U.S. medical students. When LECOM was founded in 1992, only the Florida State University College of Medicine had opened in the preceding 25 years. A consensus statement in 1997 by the American Medical Association, the Association of American Medical Colleges, and other prominent medical associations declared that the nation faced an impending glut of physicians when LECOM graduated its first cohort of 37 doctors.

Only 30 years later, 40 osteopathic medical colleges operate on 62 campuses. Today there are approximately 36,500 future physicians, representing 25 percent of all U.S. medical students enrolled in osteopathic medical schools. Since its founding, LECOM has graduated more than 9,000 doctors, 4,000 pharmacists, and over 800 dentists.

Without bold action by LECOM's founders, today's physician shortage would have been far worse, and millions more Americans would be without quality health-care services. LECOM is the nation's largest, most innovative, and most affordable private medical college. Besides offering programs at campuses in Pennsylvania, Florida, and New York, LECOM will open an additional medical school campus in Jacksonville, Florida, with the inaugural class enrolling in 2026. Establishing its fifth campus will produce physicians that will serve northeast Florida and beyond. LECOM at Jacksonville University will be the medical school's second campus in Florida.

From campuses in Erie and Greensburg, Pennsylvania; and Bradenton, Florida; and Elmira, New York, LECOM offers innovative education in osteopathic medicine, pharmacy, dental medicine, podiatric medicine, and graduate programs. LECOM has become the nation's largest and most diverse medical college in the United States. Offering the highest quality medical education with one of the lowest private medical college tuitions, LECOM is the only Academic Health Center in the osteopathic profession, fully integrated with Millcreek Community Hospital and the clinical practices of Medical Associates of Erie. LECOM graduates help to combat the nation's growing need for primary care physicians by becoming physicians who practice family medicine, internal medicine, pediatrics, or obstetrics/gynecology. LECOM produces more primary care physicians than any other U.S. medical school. The standings, part of U.S. News & World Report's annual ranking of medical schools, are based upon the percentage of graduates who entered the primary care field from 2019 to 2021. According to the report, 69% of LECOM students entered primary care residencies upon graduation during that period.

The college has taken to heart that the community is its campus. To promote fitness and wellness for the betterment of community, LECOM opened the John M. and Silvia Ferretti Medical Fitness & Wellness Center. To answer the need for better oral health care, the College opened the LECOM Dental Offices. With Erie County's senior population now approaching one in four residents, LECOM added another component to its health-care programs for older adults with the acquisition of five residential communities.

Serving as a guiding light and cornerstone in medical education and faithful to the core principles of its founders, the Lake Erie College of Osteopathic Medicine has expanded its reach to include exceptional programs in graduate studies designed to provide scholars with an excellent education in their respective areas of study.

OVERALL IMPACTS OF LECOM HEALTH ON THE UNITED STATES

LECOM Health is an economic engine for Pennsylvania, Florida, and New York, linked with outreach and engagement with stakeholders and communities across the United States. With its campuses in those states, LECOM Health contributes significantly to national, regional, and state economies.

As a national leader in osteopathic medical education, LECOM Health offers innovative and affordable education in osteopathic medicine, pharmacy, dental medicine, podiatric medicine, and graduate student education through student-centered pathways to prepare the next generation of health-care professionals.

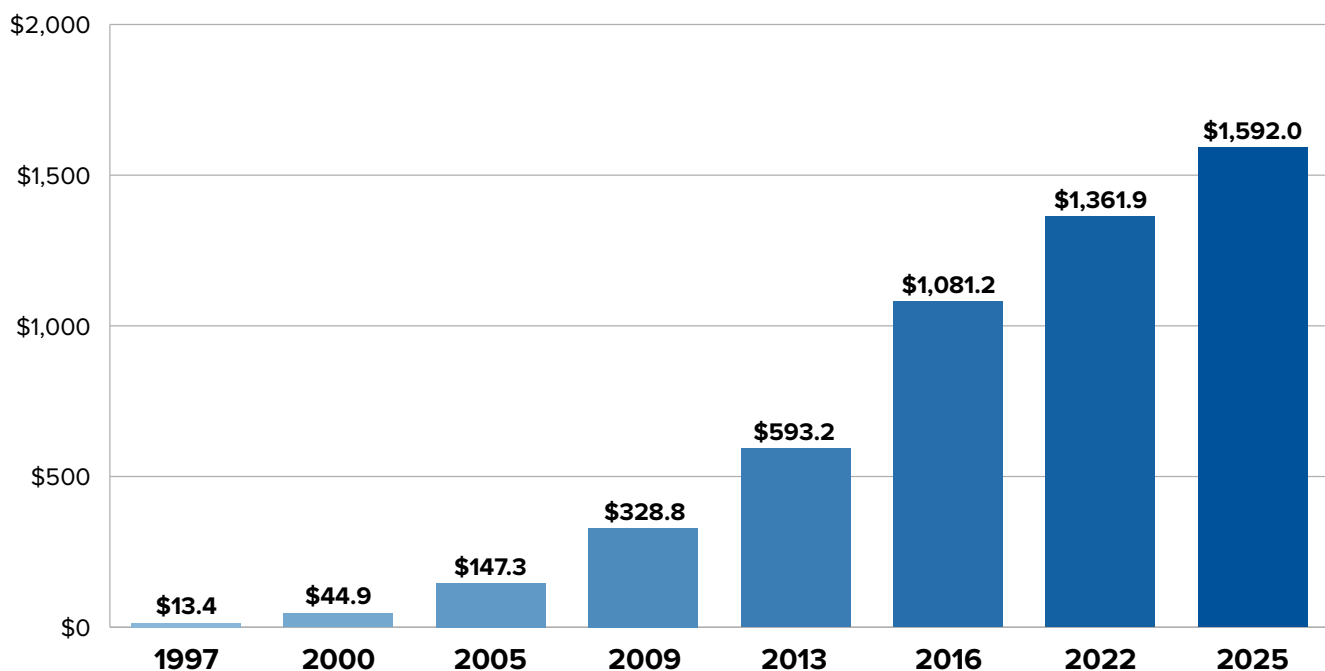
ECONOMIC IMPACT

In 2022, LECOM Health’s operations generated more than **\$1.4 billion** annually in overall economic impact in the United States. LECOM impacts the United States in two ways:

1. Direct expenditures for goods and services by LECOM Health, its staff, faculty, students, and visitors. This spending supports local businesses, which employ local individuals to sell the goods and provide the services that the college’s constituencies need.
2. Indirect or induced spending. The businesses and individuals that receive direct payments re-spend this money within the states, thus creating the need for even more jobs.

LECOM Health’s impact has grown dramatically over the last 25 years, from only **\$13.4 million** in 1997 to approximately **\$1.4 billion** in 2022. LECOM Health’s economic impact has increased by 25 percent since 2016. Tripp Umbach estimates that by 2025, LECOM Health’s economic impact on the nation will be nearly **\$1.6 billion**.

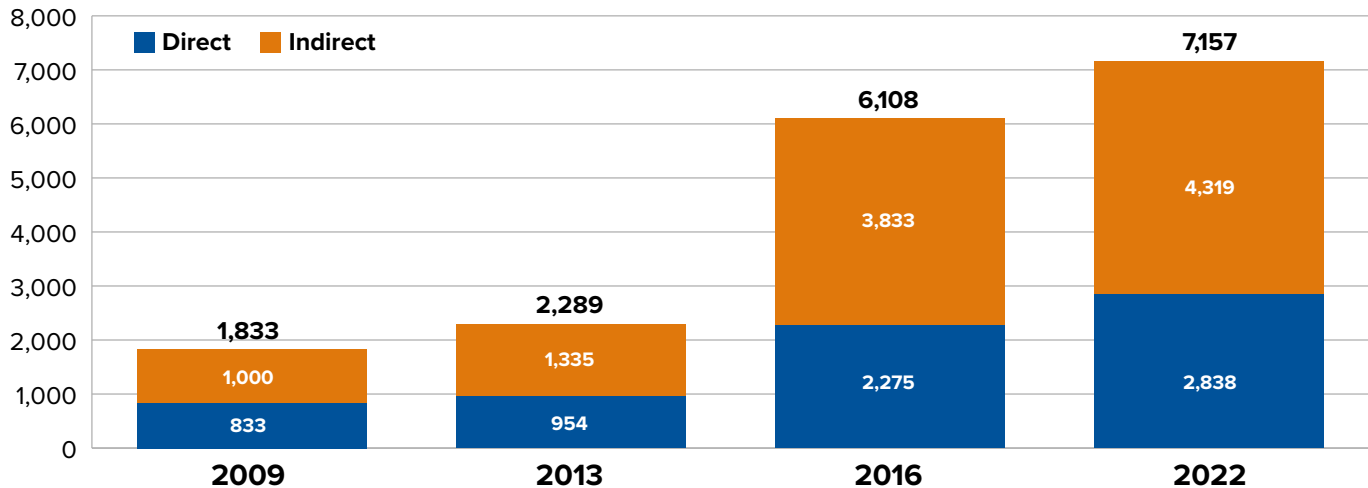
ECONOMIC IMPACT ON UNITED STATES (IN MILLIONS)



EMPLOYMENT IMPACT

In 2022, LECOM Health's operations supported **7,157 full-time employees (FTEs)** throughout the United States. This total employment comprises 2,838 direct employees and an additional 4,319 employees, all employed because of the operations LECOM Health has throughout the nation.

EMPLOYMENT IMPACT ON UNITED STATES

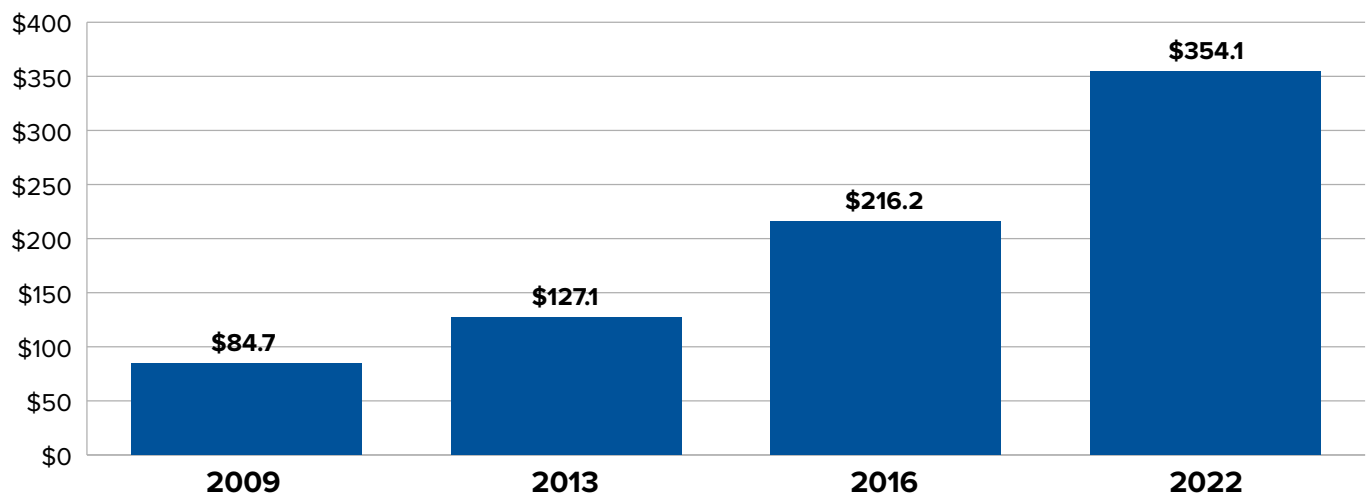


STATE AND LOCAL TAX IMPACT

While many of the nation's medical schools and hospitals are not-for-profit institutions, the government still receives substantial payments as a result of both the direct and indirect influence of these organizations. The substantial spending with local businesses generates large-scale revenues for the state and federal coffers through sales, corporate net income, and capital stock/franchise taxes. The Tripp Umbach model calculated the indirect revenue benefits accruing to the federal government from these sources.

LECOM Health operations in 2022 generated \$141.6 million in direct federal tax revenues and an additional \$212.5 million in indirect federal government revenue. The results of these operations are a total impact of **\$354.1 million** on the United States federal tax receipts.

STATE AND LOCAL TAX IMPACT ON UNITED STATES (IN MILLIONS)





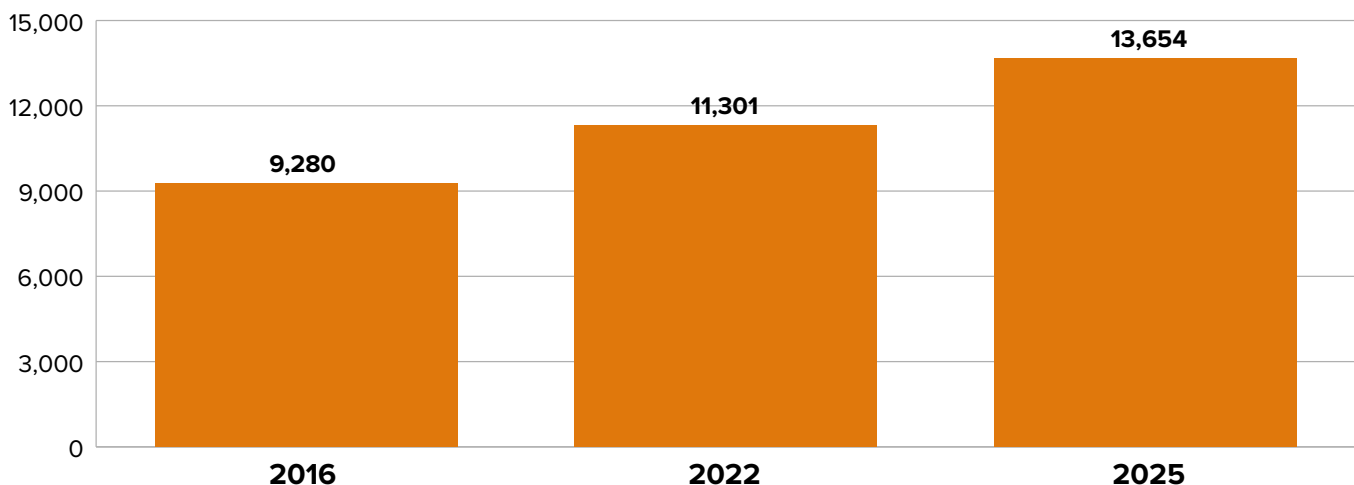
ALUMNI IMPACT

LECOM, the nation's largest medical school, produced 534 medical student graduates, 274 pharmacy graduates, 100 dental graduates, and several hundred graduates with Master's degrees within the study year, 2022. Consequently, the combined annual impact of LECOM's graduates exceeds **\$1.3 billion**. This impact is poised to grow further as LECOM programs continue to expand and strengthen. LECOM's medical, pharmacy, and dental graduates will support employment for more than **13,654 jobs** by 2025 because of increasing class sizes, the development of another regional campus in Jacksonville, and the overall growth of LECOM and its campuses. Impacts related to physician graduates are in addition to LECOM's operational results.

Since LECOM was founded in 1992, more than 9,000 physicians, 4,000 pharmacists, and over 800 dental graduates are LECOM alumni working throughout the United States. Tripp Umbach estimates that all LECOM working alumni generate more than **\$19.2 billion** in economic activity and support **164,260 jobs**.

LECOM graduates in 2022 will annually support **11,301 FTEs** once they complete residency programs and begin to practice throughout the United States. This annual impact continues to grow incrementally as the class sizes increase. By 2025, total employment related to each class of graduates will equal **13,654**.

ALUMNI EMPLOYMENT GROWTH





HEALTH CARE COST SAVINGS

Roughly two out of every three LECOM graduates practice medicine in primary care specialties, placing LECOM in the top tier of all U.S. medical schools on the number of graduates who enter primary care. These primary care physicians save the national economy unnecessary costs of emergency medical visits by providing preventive care.

Although the landscape of health care is everchanging, one thing is sure: primary care physicians will continue to be in short supply, and they are more in demand than ever. Tripp Umbach estimates that medical school graduates in 2022 will be responsible for **\$393.2 million** in annual healthcare cost savings nationally once they complete their residency programs and begin practicing. Additionally, all LECOM alumni working mainly in primary care positions will annually contribute **\$2.4 billion** in healthcare cost savings by assisting with preventive care practices by 2025. These savings are in addition to the annual operational impacts LECOM Health has on the nation.

State budget cuts in hospital support, such as Medicaid and educational programs, as well as the COVID-19 pandemic have meant decreased services, salary cuts, and reductions in the physician workforce. In addition, the decline in private philanthropy has added to the need for caution and cutbacks. Unfortunately, these cutbacks are occurring when the need for health-care funding has been at an all-time high, further taxing many of these institutions. The continued training of new physicians has never been more critical to the future health of communities in this nation.

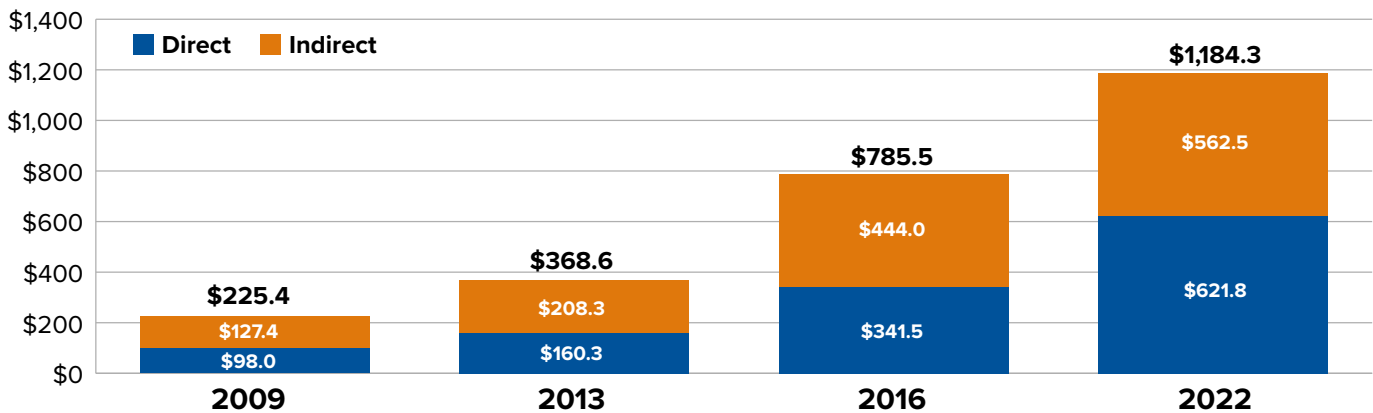
IMPACTS ON THE STATE OF PENNSYLVANIA

LECOM Health welcomed its first class of medical students in 1993. The goal was to become an efficient and effective educational operation with a new and innovative course of study rooted in the instruction of osteopathic principles and practices. LECOM Health, early on, proved vital to the local Erie, Pennsylvania economy. The school further demonstrated its commitment to the region by doubling its class size within the first 10 years of opening its doors. Maintaining one of the lowest tuitions and creating innovative educational pathways, LECOM has attracted new students as it leads all U.S. medical, dental, and pharmacy schools in the number of applications.

ECONOMIC IMPACT

The total impact that LECOM Health had on the Commonwealth of Pennsylvania in 2022 approached nearly **\$1.2 billion**. This includes the direct operational impact of \$621.8 million and the indirect impact of \$562.5 million. LECOM Health’s impact on the Commonwealth has increased by more than 50 percent in the last five years.

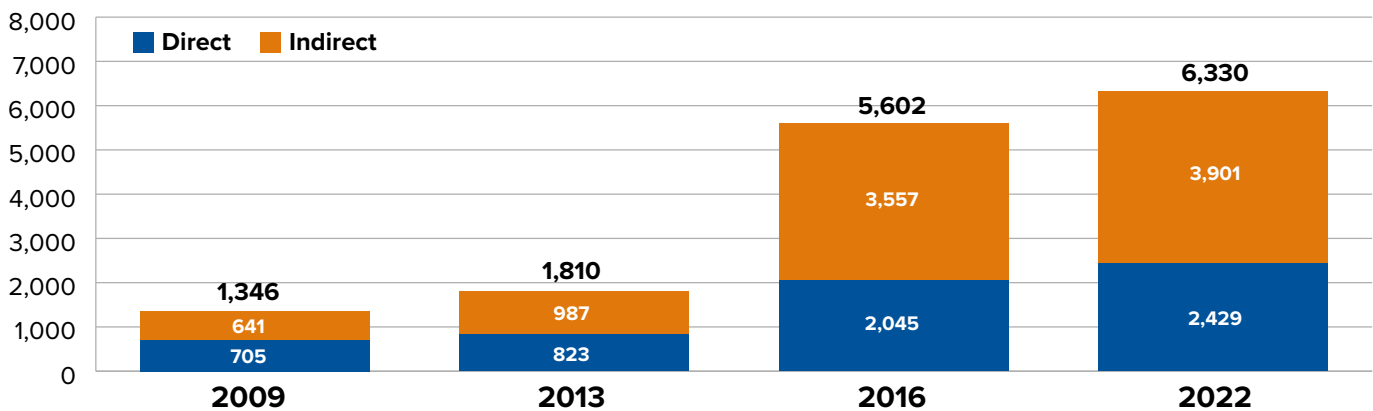
ECONOMIC IMPACT ON PENNSYLVANIA (IN MILLIONS)



EMPLOYMENT IMPACT

LECOM Health supports and sustains more than **6,330 jobs** in Pennsylvania. This total employment comprises 2,429 direct jobs that are added to the state because of LECOM Health’s operations and an additional 3,901 jobs added because of LECOM Health’s operations in Pennsylvania.

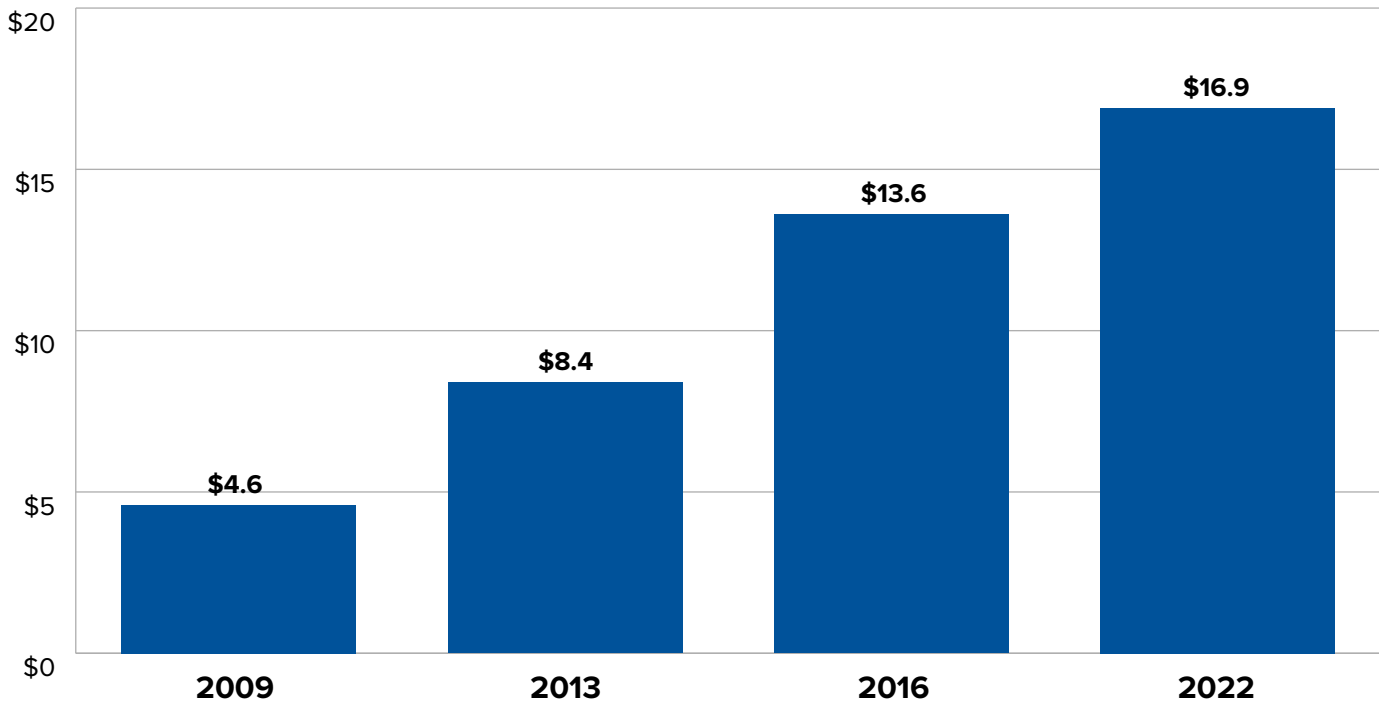
EMPLOYMENT IMPACT ON PENNSYLVANIA



STATE AND LOCAL TAX IMPACT

In 2022, LECOM Health's operations created more than **\$16.9 million** in government revenue for the Commonwealth and local municipalities. This revenue exceeds the 2013 Pennsylvania Government Revenue impact by more than doubled.

STATE AND LOCAL TAX IMPACT ON PENNSYLVANIA (IN MILLIONS)



HEALTH CARE COST SAVINGS

Tripp Umbach estimates that those LECOM Health graduates who receive training and set up a practice in a medically underserved area within Pennsylvania have an additional annual impact of greater than \$173.4 million in health care cost savings.

To help health care in the state, LECOM committed to building a dental group practice in Erie, Pennsylvania. This outreach group practice provides extensive clinical experience for students and ensures access to affordable dental care. Besides the positive economic and employment impacts on the community, the treatment of hundreds of patients of all ages daily will continue to have a beneficial effect on the community's health care for decades to come.



IMPACTS ON ERIE COUNTY, PENNSYLVANIA

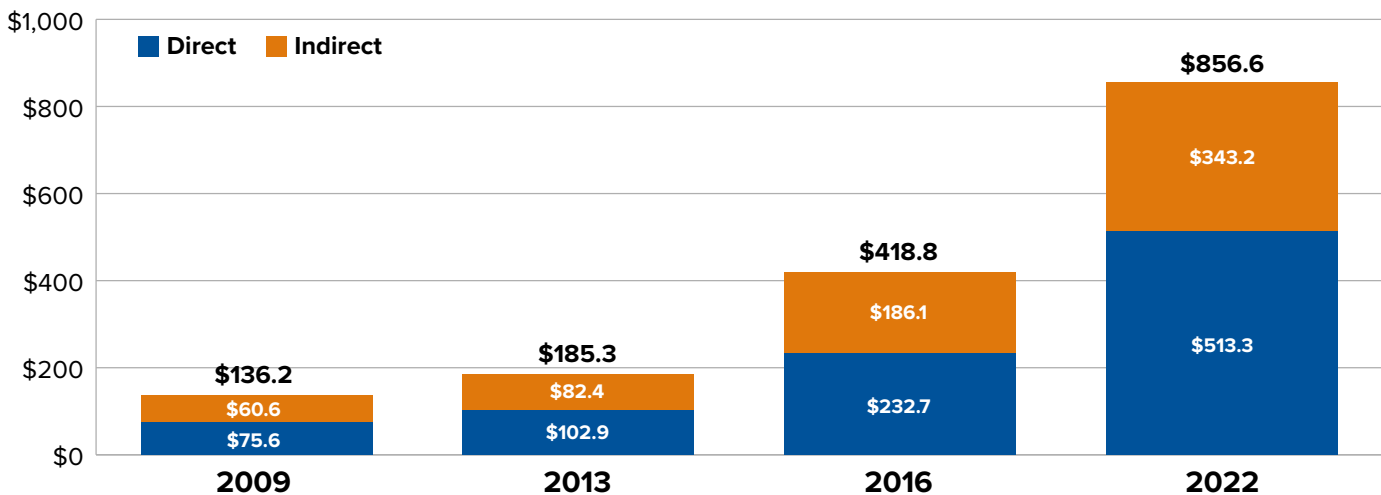
LECOM Health holds a significant number of its operations within the Greater Erie Area. LECOM Health’s operations have grown from an osteopathic medical school and community hospital to include every facet of an academic health center including residencies and fellowships, and has become an economic engine in the Greater Erie Area.

LECOM has obtained three radio stations in Northwest Pennsylvania. Their broadcasting influence extends throughout the region. The collective listener base of these stations is estimated to encompass around 400,000 individuals. Notably, the Erie region, where the stations are centered, holds the position of the 181st largest radio market in the United States.

ECONOMIC IMPACT

The total economic impact that LECOM Health has on the Greater Erie Area includes a direct operational impact of \$513.3 million and the indirect impact of \$343.2 million, amounting to a total overall economic impact of nearly **\$856.5 million**. Since 2016, LECOM Health in the Greater Erie Area has realized a 104 percent increase in economic activity.

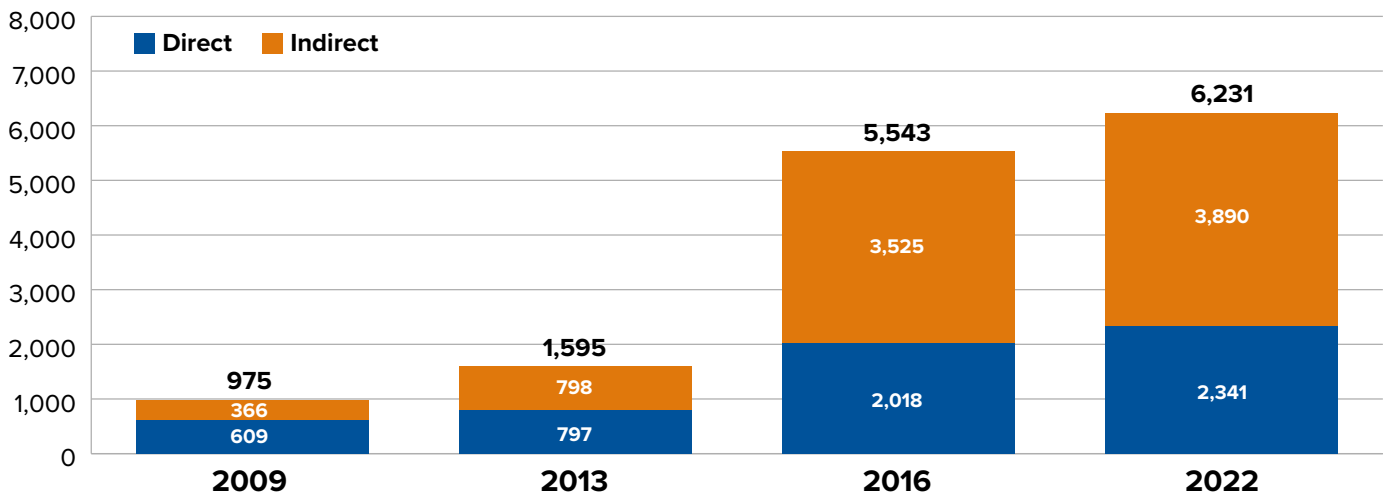
ECONOMIC IMPACT ON ERIE COUNTY, PENNSYLVANIA (IN MILLIONS)



EMPLOYMENT IMPACT

LECOM Health sustains and supports **6,231 jobs** in the Greater Erie Area. This total employment accounts for the 2,341 direct jobs added to the region because of LECOM Health's operations and for an additional 3,890 indirect jobs added because of LECOM Health's processes. With the development of LECOM Health, the academic health center is now one of the largest employers in Erie. The health care and higher education industries account for more than 23 percent of the jobs in the Greater Erie Area. The jobs created by LECOM Health pay, on average, \$22,755 more per year than the average job in this market, making more economic impact per FTE than the average job in this area.

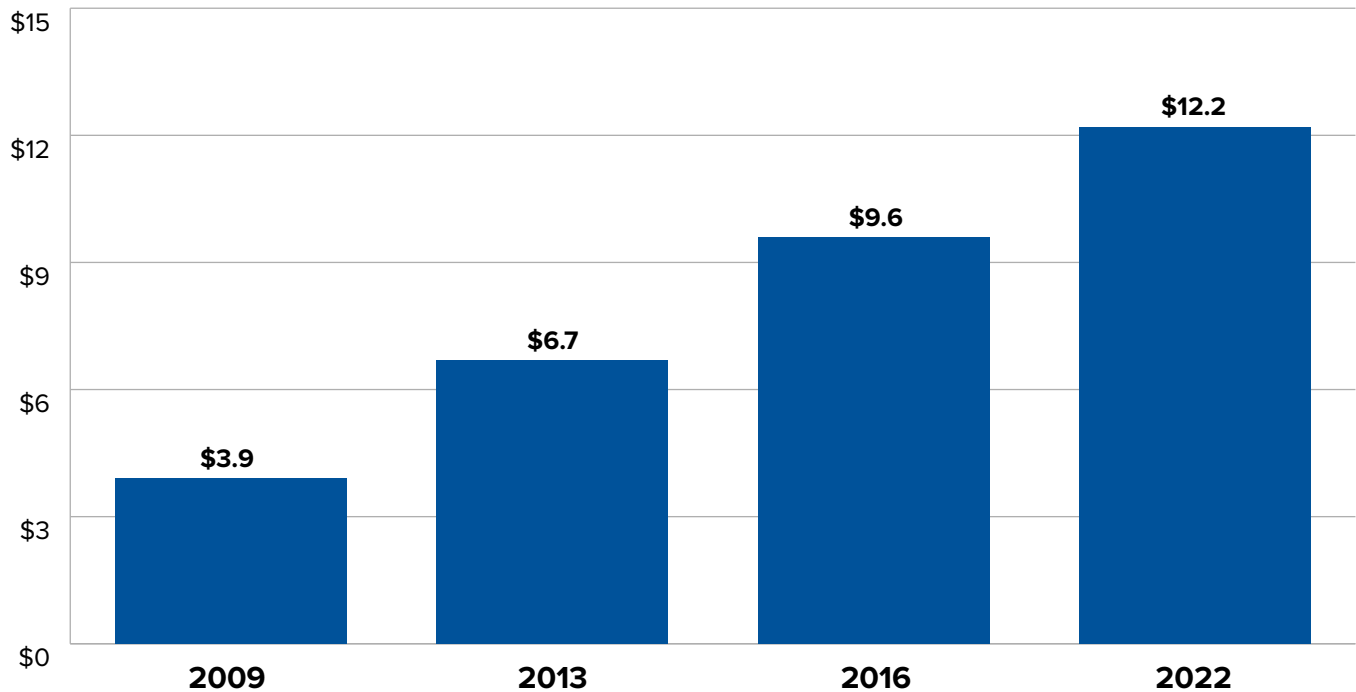
EMPLOYMENT IMPACT ON ERIE COUNTY, PENNSYLVANIA



STATE AND LOCAL TAX IMPACT

In 2022, LECOM Health's operations created more than **\$12.2 million** in government revenue for Erie County. This revenue has more than tripled since 2009.

STATE AND LOCAL TAX IMPACT ON ERIE COUNTY, PENNSYLVANIA (IN MILLIONS)



COMMUNITY BENEFITS IMPACT

LECOM Health's total impact on the Greater Erie Area extends beyond the economic impacts presented in this report. Tripp Umbach estimates that LECOM Health employees, residents, physicians, and students who receive their training at LECOM generate nearly \$8.0 million annually in charitable donations, volunteer services, and the provision of free health care throughout the area. These benefits include the following:

- LECOM physicians, faculty, and staff provide hours of volunteer services that equal an estimated economic value of more than \$2.4 million.
- LECOM Health employees, faculty, and students also provide benefits through contributions to local charities. It is estimated that the students and residents donate more than \$132,930 to local charities, and their volunteer activities are valued at more than \$392,490; these dollars are also in addition to the economic impact outlined above.
- Since inception, more than 11,000 days of service was provided to LECOM Health's Bridging the Gaps program by about 435 students.



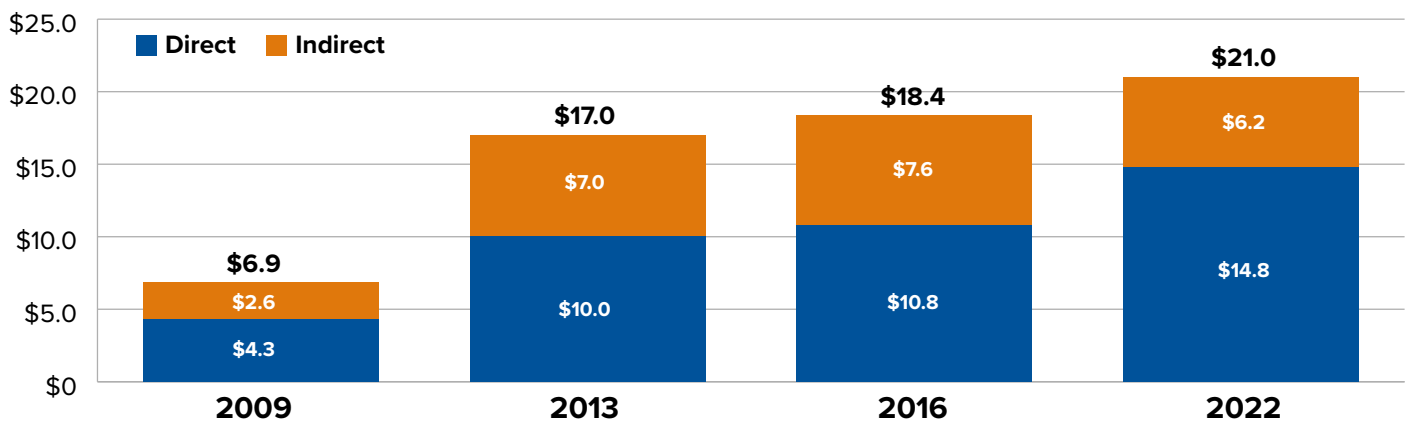
IMPACTS ON WESTMORELAND COUNTY, PENNSYLVANIA

Besides the Erie and Bradenton locations, LECOM operates an additional location at the private liberal arts institution of Seton Hill University in Greensburg, Pennsylvania. Greensburg, the county seat of Westmoreland County, sits in Southwestern Pennsylvania. The Greensburg campus is an extension of the Erie campus medical college classes. The LECOM at Seton Hill campus has benefited the county and the community of Westmoreland County.

ECONOMIC IMPACT

LECOM Health’s total economic impact on Westmoreland County includes the direct operational effects of \$14.8 million and the indirect impact of \$6.2 million. These combined amounts give LECOM Health a more significant overall impact of **\$21.0 million**. This shows a steady campus growth since the 2009 assessment of the economic value of the LECOM campus in the Westmoreland County Area.

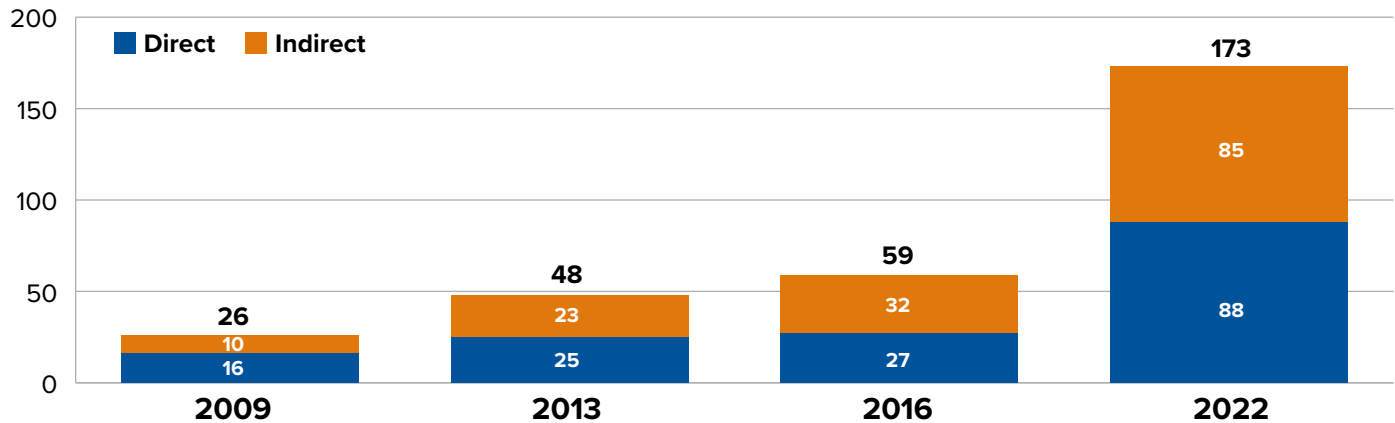
ECONOMIC IMPACT ON WESTMORELAND COUNTY, PENNSYLVANIA (IN MILLIONS)



EMPLOYMENT IMPACT

LECOM Health in 2022 supported and sustained **173 jobs** in the Westmoreland County Area. This total employment accounts for the 88 direct jobs added to the state because of LECOM Health's operations and for 85 jobs added because of the local presence that LECOM Health has in the Westmoreland County Area.

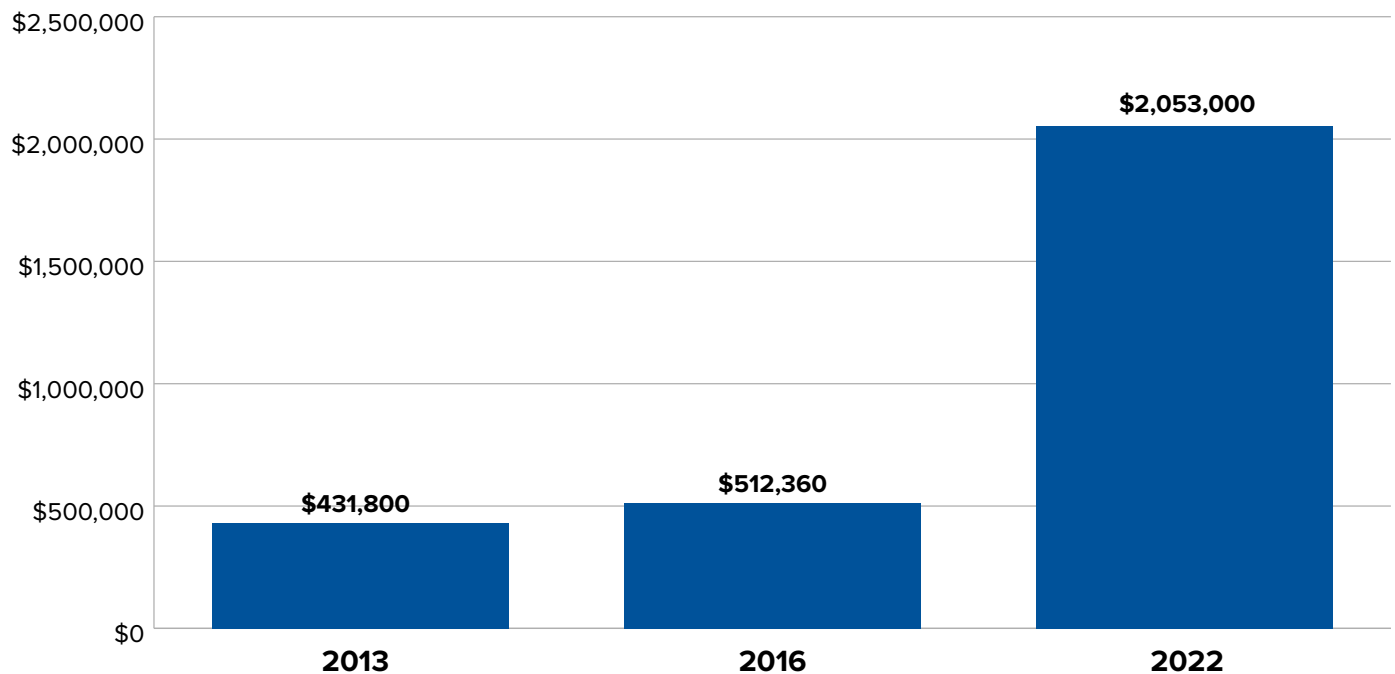
EMPLOYMENT IMPACT ON WESTMORELAND COUNTY, PENNSYLVANIA

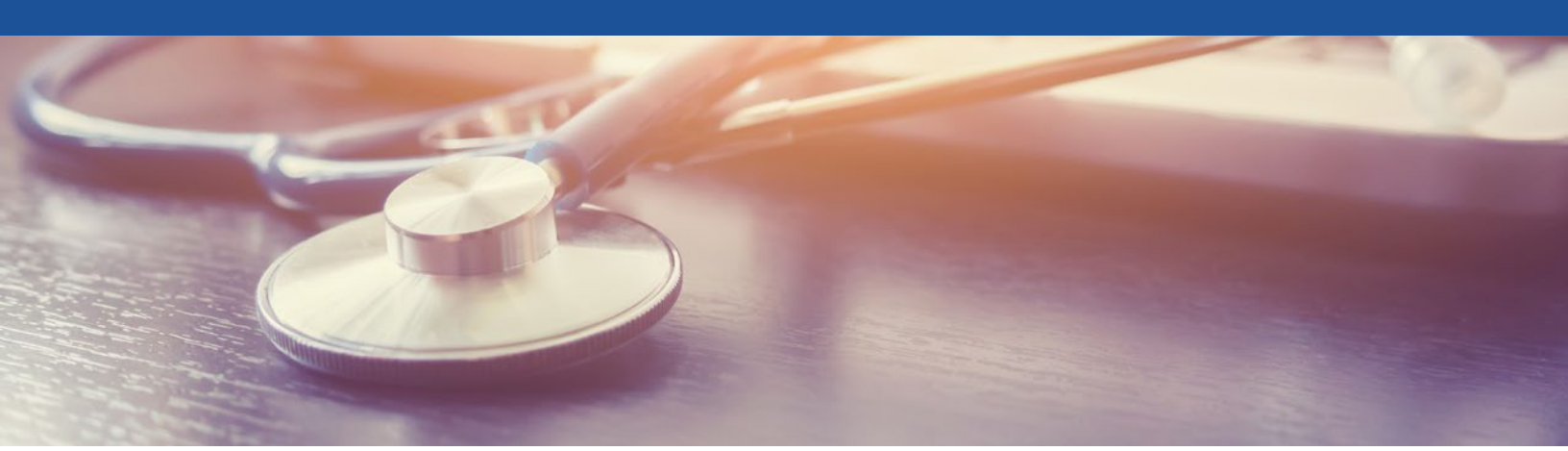


STATE AND LOCAL TAX IMPACT

In 2022, LECOM Health's operations created about **\$2.1 million** in government revenue for Westmoreland County.

STATE AND LOCAL TAX IMPACT ON WESTMORELAND COUNTY, PENNSYLVANIA (IN THOUSANDS)





IMPACTS ON THE STATE OF FLORIDA

Twelve years after beginning operations in Erie, the College established one of the first branch campuses in the history of the osteopathic profession in Bradenton, Florida. The ongoing need for primary care physicians made the state a natural choice for the second LECOM campus. LECOM Bradenton provides superlative education in the College of Osteopathic Medicine, School of Pharmacy, School of Dental Medicine, and School of Health Services Administration. The LECOM School of Pharmacy in Bradenton offers a four-year Doctor of Pharmacy program on campus.

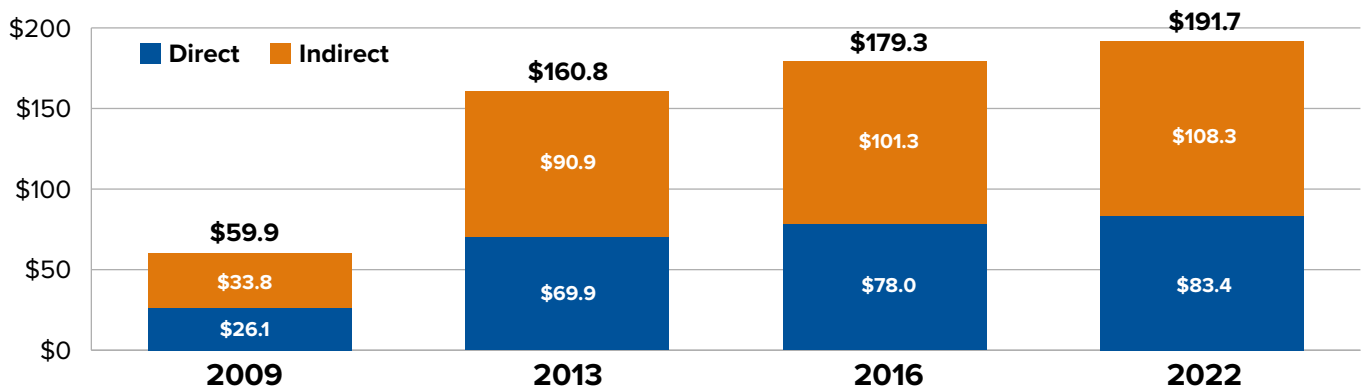
Additionally, the LECOM School of Dental Medicine (SDM) opened in a new building adjacent to the original LECOM Bradenton building, housing classes for the program and the School of Health Services Administration. To address underserved populations for dental care in the state, LECOM SDM has group dental offices in Bradenton, and DeFuniak Springs in the Florida Panhandle. The DeFuniak Springs dental offices are fully equipped, state-of-the-art facilities where the fourth-year LECOM students, spend their senior year gaining clinical training, and working under licensed dentists' direct supervision and seeing patients of all ages.

Two other developments include the establishment of LECOM primary care offices in Englewood, Florida and the acquisition of three radio stations that encompass Manatee and Sarasota counties.

ECONOMIC IMPACT

LECOM Bradenton's total impact on Florida in 2022 is **\$191.7 million**. This economic impact includes the direct operational effects of \$83.4 million and the indirect impact of \$108.3 million. This impact is nearly 7 percent higher than the economic impact for this campus in 2016. The growth is robust, and as the campus continues to grow, the effect on the state also will increase.

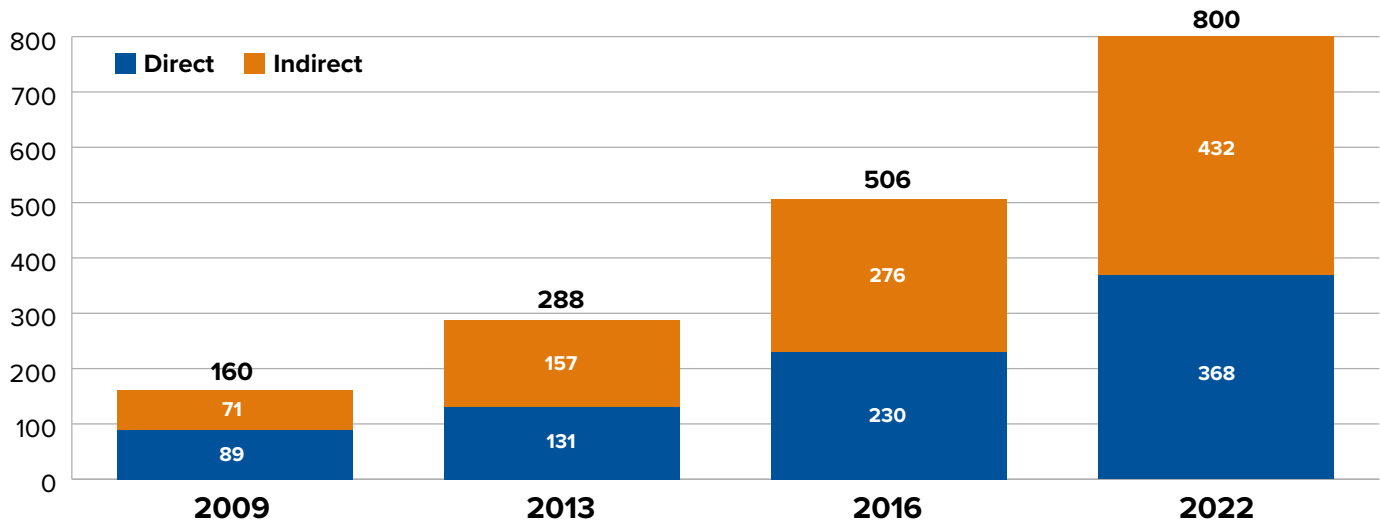
ECONOMIC IMPACT ON THE STATE OF FLORIDA (IN MILLIONS)



EMPLOYMENT IMPACT

LECOM Health supports and sustains **800 jobs** in Florida. This total employment includes 368 direct jobs added to the state because of LECOM's Bradenton campus operations and the dental offices in DeFuniak Springs. It provides an additional 432 jobs because of the statewide presence LECOM Health has established in Florida. As the Bradenton campus has grown and the dental offices in the Panhandle have opened, the employment impact has grown by more than 29 percent since 2016.

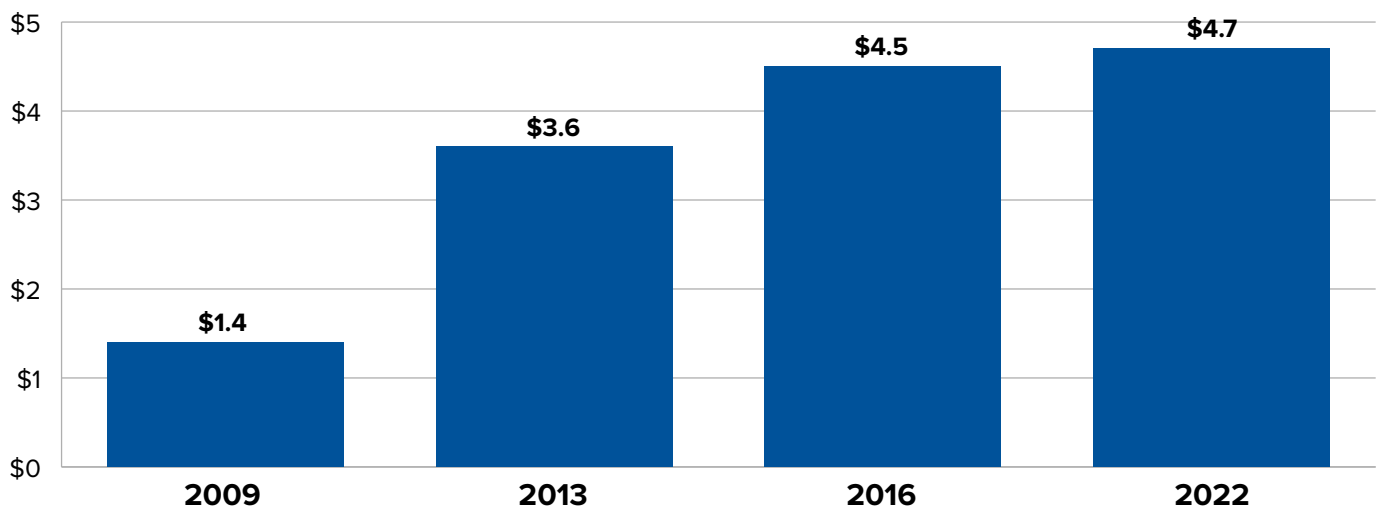
EMPLOYMENT IMPACT ON THE STATE OF FLORIDA



STATE AND LOCAL TAX IMPACT

In 2022, LECOM Health's operations created more than **\$4.7 million** in government revenue (both directly and indirectly) to the state of Florida, which includes direct taxes paid to the state and local economies and additional indirect tax payments.

STATE AND LOCAL TAX IMPACT ON THE STATE OF FLORIDA (IN MILLIONS)





HEALTH CARE COST SAVINGS

LECOM Health's total impact on the Florida economy extends beyond the annual economic impact presented above. Tripp Umbach estimates that LECOM graduates who receive training in the state and who go on to set up a practice in medically underserved areas throughout the state have an additional annual impact of \$151.3 million in healthcare cost-savings.

To help health care in the state, LECOM committed to building the dental group practice in DeFuniak Springs. This outreach group practice provides extensive clinical experience for students and ensures that families in need can access affordable dental care. Besides the positive economic and employment impacts on the community, the treatment of hundreds of patients of all ages daily has a beneficial effect on the community's health care for decades.

COMMUNITY BENEFITS IMPACT

The impacts felt in the state of Florida and in the Bradenton area from LECOM's presence are significant. Tripp Umbach estimates that LECOM Health employees, faculty, and students who received their training at LECOM Bradenton generate more than \$1.3 million annually in charitable donations, volunteer services, and provision of free clinic care throughout the area. LECOM Bradenton students, faculty, and staff make a difference financially or through volunteerism in the local community of which they become a part.

A few examples of areas of community impact are:

- Students from LECOM School of Dental Medicine hold the Give Kids A Smile Program, providing dental care to underserved children.
- Osteopathic medical students spend countless hours assisting children who receive help through the Florida Sheriffs' Youth Ranches Program.

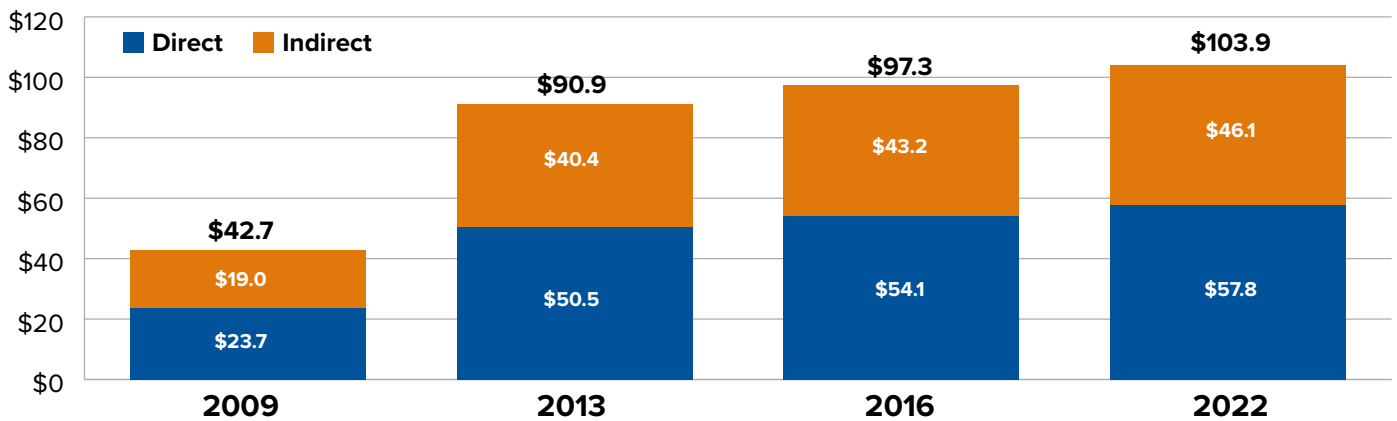
IMPACTS ON MANATEE COUNTY, FLORIDA

Just outside of Bradenton in picturesque Lakewood Ranch, LECOM constructed a new and magnificent educational facility as the location for its first branch campus. The Bradenton campus, consisting of two buildings, houses the institutions programs for the College of Osteopathic Medicine, School of Pharmacy, School of Dental Medicine, and School of Health Services Administration. These state of the art facilities provide students with a structure that serves as an educational center for students and a clinical facility for dental patients.

ECONOMIC IMPACT

LECOM Bradenton’s total impact on Manatee County includes the direct operational effects of \$57.8 million and the indirect impact of \$46.1 million, amounting to a total impact in the Greater Bradenton Area of nearly **\$103.9 million**.

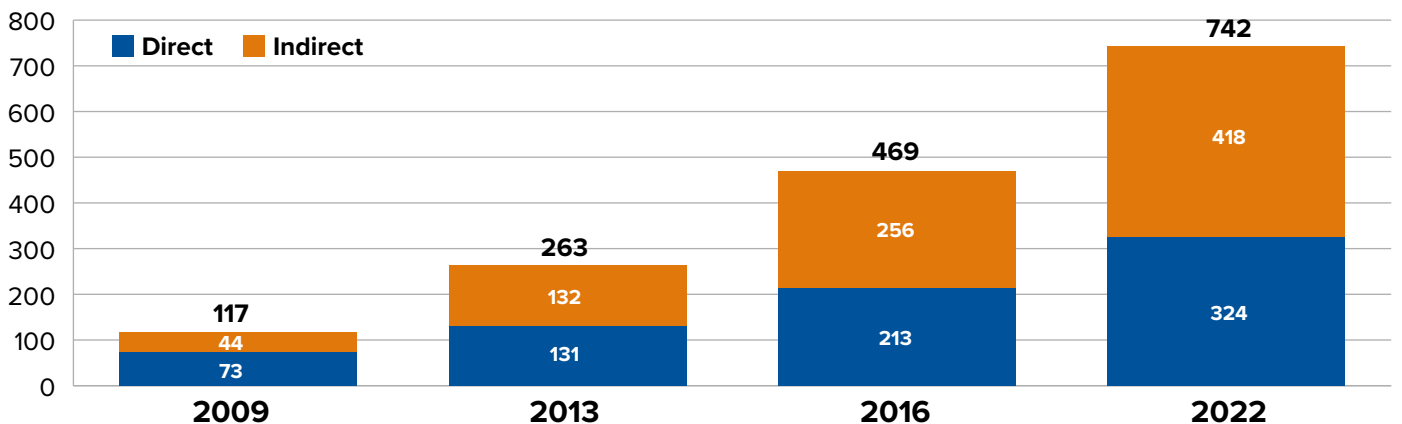
ECONOMIC IMPACT ON MANATEE COUNTY, FLORIDA (IN MILLIONS)



EMPLOYMENT IMPACT

LECOM Health supports and sustains **742 jobs** in Manatee County. This total employment accounts for the 324 direct jobs added to the area because of the operations of LECOM Health in Bradenton and for an additional 418 jobs added because of operations LECOM Health maintains in the Greater Bradenton Area. In the Greater Bradenton Area, education and health care account for more than 20 percent of the area’s employment. The jobs created in the Greater Bradenton Area by LECOM pay \$49,140 more per year than the average job in the market, thereby creating more economic impact per FTE than the average job in this area.

EMPLOYMENT IMPACT ON MANATEE COUNTY, FLORIDA





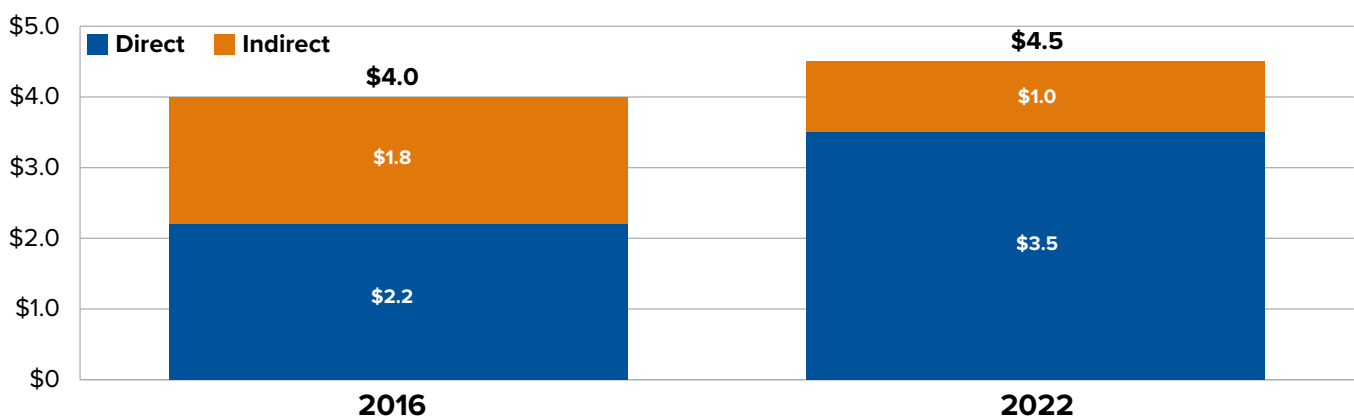
IMPACTS ON WALTON COUNTY, FLORIDA

LECOM Health recognized the need for dentists across the nation, especially in Florida and the Gulf Coast states. Florida ranks third in the country for the number of communities designated as Dental Health Shortage Areas. With one out of five residents lacking insurance, the burden falls on Florida emergency rooms, where treating preventable dental conditions costs more than \$110.8 million. To help alleviate the shortage and the high healthcare costs, LECOM Health has brought much-needed dental health care to DeFuniak Springs in Walton County. Since the clinic's opening, the LECOM presence has improved the health status of the community by providing comprehensive care and general dentistry for all age groups in addition to the economic value it offers to the county.

ECONOMIC IMPACT

LECOM Health's total economic impact on Walton County includes the direct operational effects of \$3.5 million and the indirect impact of \$952,000. These combined amounts give LECOM an overall impact of nearly **\$4.5 million**. This is more than a 12 percent increase since 2016.

ECONOMIC IMPACT ON WALTON COUNTY, FLORIDA (IN MILLIONS)





IMPACTS ON THE STATE OF NEW YORK

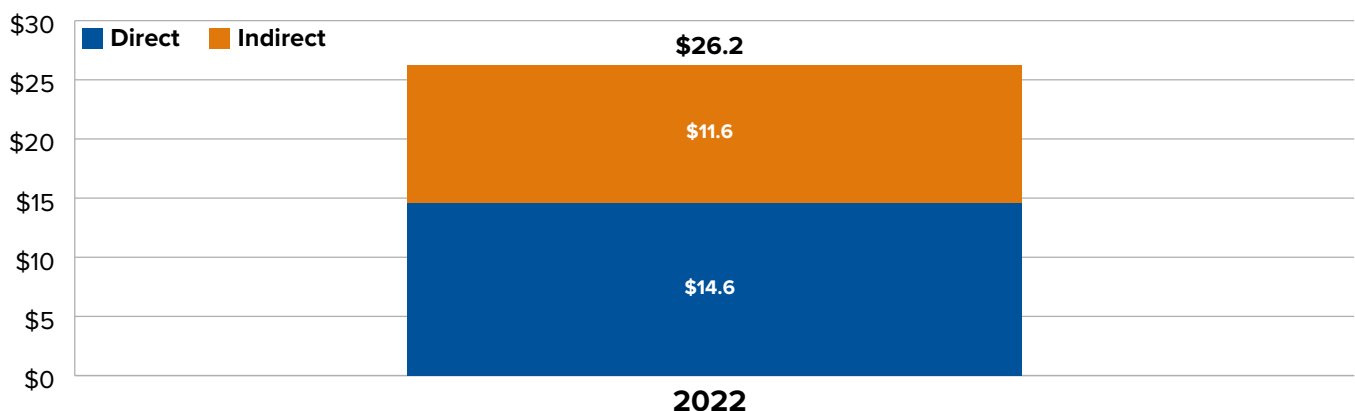
LECOM's introduction to the Elmira community came in 2012 when the college began sending its third- and fourth-year medical students to Arnot Health and other Southern Tier hospitals for clinical education. Those affiliations opened the door for LECOM's further expansion into the region, including the opportunity to establish a LECOM satellite location on the campus of Elmira College. In September 2018, the Commission on Osteopathic College Accreditation (COCA) approved LECOM's application to expand its Doctor of Osteopathic Medicine program to Elmira. The first Elmira-based medical students started in July 2020. Historically, medical school graduates often continue their post-graduate training within the same area in which they attended medical school. Should that trend continue, the Southern Tier and western New York will see an influx of health-care practitioners in the coming decades, ensuring highly trained physicians will fill a void for the region's medically underserved residents.

ECONOMIC IMPACT

The total impact of LECOM at Elmira Campus on the state of New York in 2022 is **\$26.2 million**, impressive for a new campus. This business volume includes the direct operational effects of \$14.6 million and the indirect impact of \$11.6 million. As the campus continues to grow, the effect on the state of New York will also increase.

Clinical partners in Elmira and Rochester benefit from LECOM'S Elmira campus. More than one million dollars a year is provided by LECOM to hospital affiliates. LECOM has also been responsible for improving properties in close proximity to LECOM Elmira campus.

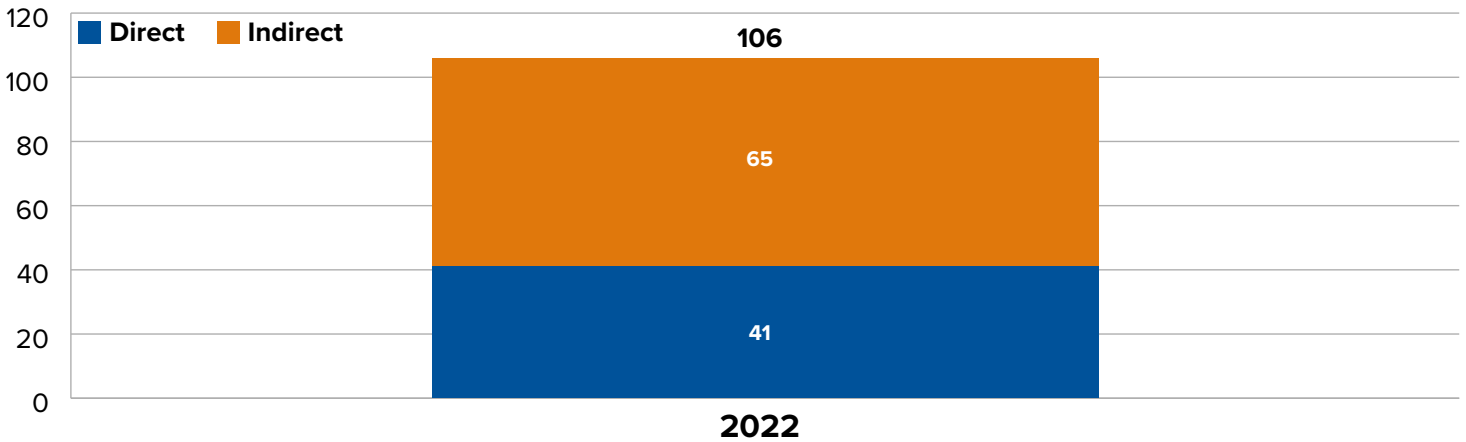
ECONOMIC IMPACT ON STATE OF NEW YORK (IN MILLIONS)



EMPLOYMENT IMPACT

LECOM Health supports and sustains **106 jobs** in New York. This total employment includes 41 direct jobs added to the state because of the operations of LECOM at Elmira Campus and 55 additional jobs indirectly.

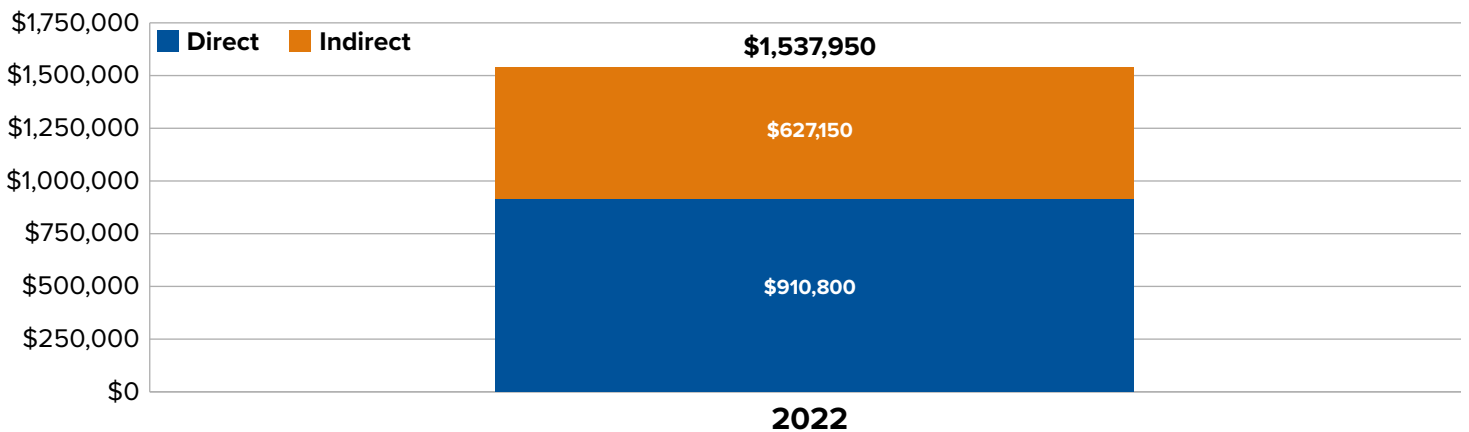
EMPLOYMENT IMPACT ON THE STATE OF NEW YORK



STATE AND LOCAL TAX IMPACT

In 2022, LECOM Health’s operations created more than **\$1.5 million** in government revenue (both directly and indirectly) to the state of New York, which includes direct taxes paid to the state and local economies and additional indirect tax payments.

STATE AND LOCAL TAX IMPACT ON THE STATE OF NEW YORK

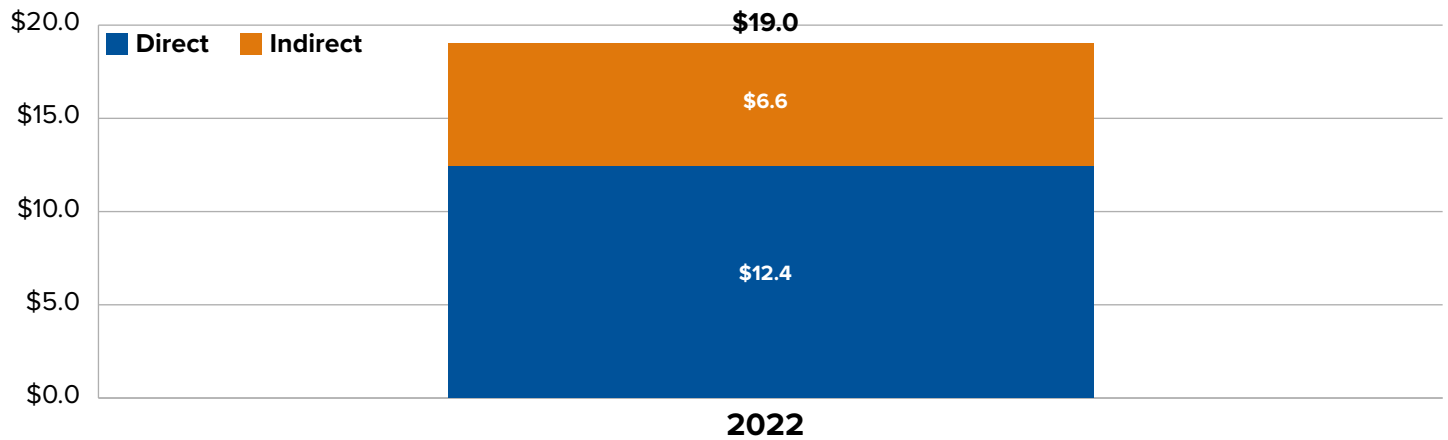


IMPACTS ON CHEMUNG COUNTY, NEW YORK

ECONOMIC IMPACT

Roughly three years after the opening of the Elmira campus, the total economic impact that LECOM Health had on Chemung County includes the direct operational effects of \$12.4 million and the indirect impact of \$6.6 million. These combined amounts give LECOM Health an overall impact of **\$19.0 million**.

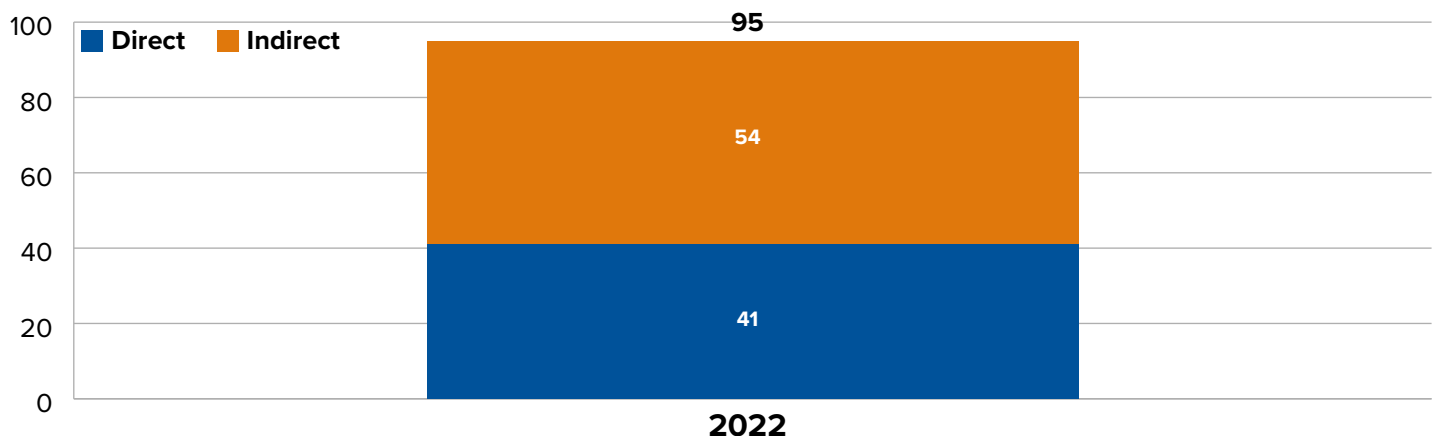
ECONOMIC IMPACT ON CHEMUNG COUNTY, NEW YORK (IN MILLIONS)



EMPLOYMENT IMPACT

LECOM Health in 2022 supported and sustained **95 jobs** in the Chemung County. This total employment accounts for the 41 direct jobs added to the state because of LECOM Health’s operations and for 54 jobs added because of the local operations that LECOM Health has maintained in Chemung County.

EMPLOYMENT IMPACT ON CHEMUNG COUNTY, NEW YORK





IMPACTS ON HEALTH AND WELLBEING

Addressing Social Determinants of Health requires osteopathic leaders to interface with a diverse cohort of organizations and individuals beyond health care, including leaders in education, government, social services, and economic development. Only then can communities achieve comprehensive transformation. Medical schools, such as LECOM focus on improving a community's physical, mental, economic, spiritual, and environmental health creating a positive learning environment for students to engage with others while learning the art and science of medicine. Transformation in medical education and practice will result in economic benefits from working collaboratively across sectors within a diverse network of stakeholders.

The model of medical care pioneered at LECOM holds the promise by mid-century to increase health and wellness, dramatically lower health-care costs, and drive the economy by reducing the economic gap between rich and poor. Currently, the United States has the worst health status and the highest cost of care among all developed societies. The economic reality of spending nearly 20% of our nation's collective economy only to receive inferior health outcomes is unsustainable and morally wrong. As a fully integrated healthcare system, LECOM Health is at the forefront of the economic re-design of our health-care delivery system that is deeply rooted in human interaction and the dramatic cost-saving potential of advanced health-focused technology.

Tripp Umbach estimates that the poor health status of the United States costs our economy nearly \$3 trillion annually. The economic value of the osteopathic training pioneered at LECOM Health can transform both health and economic well-being for the next hundred years.

CONCLUSION

LECOM is the nation's largest medical college and the only comprehensive academic medical center anchored by an osteopathic medical school. Since the founding in 1992, LECOM recognized the growing demand for more physicians and has since paved the way for the future of osteopathic medicine. The LECOM campuses have utilized innovative medical education to better their communities. Only 30 years later, LECOM has graduated almost 16,000 healthcare professionals and has contributed more than \$1.5 billion to the national economy.

APPENDIX A: METHODOLOGY

Tripp Umbach needed to establish a study methodology to fully quantify the impact of LECOM within the various geographical areas throughout this study. It was critically important that the method used would ensure a comprehensive yet conservative estimate of the operation's impact based on information compiled using uniform and consistent techniques. In addition, the study team sought to develop a reproducible methodology, assuring that subsequent studies could build upon the information and knowledge gained through this effort.

Tripp Umbach determined that using the IMPLAN Pro economic impact model software was most appropriate for this analysis. The IMPLAN econometric model estimates the direct, indirect, and induced impacts of specific economic activity. Direct economic impacts are those attributable to the initial economic activity. For example, an operation with 10 full-time employees creates 10 direct jobs. Indirect economic impacts are those activities undertaken by vendors and suppliers within the supply chain of the direct action because of the initial economic activity. For example, suppliers of goods, materials, and services used in direct activities produce indirect economic impacts. Induced economic impacts result from the spending of wages paid to employees in local industries involved in direct and indirect activities. Tripp Umbach selected the IMPLAN model because of its frequent use in economic impact and its development independent of regional influences. Tripp Umbach collected employment information concerning the economic activity of LECOM operations themselves and followed up in person to ensure the data was the most current available.

In this report, the impact was measured using IMPLAN datasets. The IMPLAN12 data files include information for 528 industries (generally three- or four-digit SIC13 code breakdown) and 21 economic variables. IMPLAN sources its employment data from ES202 employment security data supplemented by county business patterns and REIS data. Employment data utilized in the analysis include full-time and part-time positions.

It should be noted that, at the time of performing the LECOM assessment, the most recent IMPLAN data files for each of the counties measured at the state level were for 2022. While the data is not current, it is unlikely that the fundamental economic structure of the Bi-State areas economic fabric has changed to the extent that would invalidate the analysis. IMPLAN data and accounts closely follow the accounting conventions used in the "Input/Output Study of the U.S. Economy" by the U.S. Bureau of Economic Analysis and the rectangular format recommended by the United Nations.

By deriving the direct and actual employment numbers from IMPLAN for each county, Tripp Umbach conducted input-output modeling to analyze the industry's current impact in each county. Tripp Umbach supplied additional information as required to supplement the data provided by LECOM.

APPENDIX B: REPORT TERMS

Study	The fiscal year 2022
Multiplier Effect	The multiplier effect is the additional economic impact created by the organization's direct economic impact. Local companies that provide goods and services to an organization increase their purchasing by creating a multiplier.
Direct Impact	The direct impact includes the company's direct effects on the regional area because of the company's operations. These items include direct employees, company spending, employee spending, and spending by visitors to the company.
Indirect Impact	The impact of local industries buying goods and services from other local initiatives. The cycle of spending works its way backward through the supply chain until all money leaks from the local economy, either through imports or payments to value added. The impacts are calculated by applying direct effects to the Type I Multipliers.
Induced Impact	The response by an economy to an initial change (direct effect) that occurs through re-spending of income received by a component of value added. IMPLAN's default multiplier recognizes that labor income (employee compensation and proprietor income parts of value added) is not leakage to the regional economy. This money is recirculated through household spending, causing further local economic activity.
Indirect Tax Payments	Governmental units collect government revenue in addition to those paid directly by an organization, including taxes paid directly by employees, visitors, and vendors who sell products to the organization.
Indirect Employment	Indirect employment is the additional jobs created because of the organization's economic impact. Local companies that provide goods and services to an organization increase their employees as purchasing increases, thus creating an employment multiplier.
Total Economic Impact	The total economic impact of an organization includes both the direct and indirect effects generated in the economy as a result of the organization. The immediate implications include organizational spending, employee spending, and visitor spending to the organization. Indirect impact, also known as the multiplier effect, consists of the re-spending of dollars within the local economy.

APPENDIX C: TRIPP UMBACH QUALIFICATIONS

Founded in 1990, Tripp Umbach is among the most established and respected private consulting firms in the United States. Tripp Umbach has a rich history rooted in advanced quantitative methods, community assessment, economic impact assessment, and economic development. Tripp Umbach is a pioneer in the field of economic design.



Beginning with completing the nation's first higher education economic impact study for Washington & Jefferson College in the late 1980s, Tripp Umbach has grown to be the gold standard for college and university impact studies and has completed studies for hundreds of leading universities throughout the United States and globally.

In 1991, the firm completed the nation's first community health needs assessment (CHNA) for Butler Memorial Hospital. This project, a pilot program for VHA, led to Tripp Umbach's leadership of more than 500 community assessments in nearly every state in the nation and in Trinidad and Tobago.

In 1995, Tripp Umbach completed the first national economic impact study of all U.S. allopathic medical schools for the Association of American Medical Colleges (AAMC). Since then, Tripp Umbach has completed more than 1,000 economic impact studies for organizations such as the American Hospital Association (AHA), the Association of Public and Land-grant Universities, and the National Park Service. Tripp Umbach is the national leader in performing economic impact research for leading universities, hospitals, and large-scale events. Tripp Umbach has experience in completing economic and social impact studies for LECOM in the past and other osteopathic medical schools throughout the United States. Since 1990, Tripp Umbach has completed more than 1,000 economic impact studies for clients such as the Mayo Clinic Rochester, Ohio University College of Osteopathic Medicine, the Cleveland Clinic, University of Florida Shands HealthCare, the University of North Carolina Hospitals, the University of Pennsylvania Health System, the University of Pittsburgh Medical Center, the Ohio State University Wexner Medical Center and more.

Tripp Umbach has also conducted national studies of all U.S. and Canadian medical schools and teaching hospital affiliates for the Association of American Medical Colleges.

During the early 2000s, Tripp Umbach conducted feasibility studies and implementation plans for a new generation of U.S. medical schools. Today, Tripp Umbach has completed projects for most newly established or expanded medical schools and health science centers and is the national leader in consulting for academic medical centers.

Tripp Umbach is a force in economic and community development, working in partnership with health-care, education, government, and corporate clients to improve communities' economic, social, and physical well-being worldwide. With more than 1,000 clients throughout the United States and Canada, Tripp Umbach is a leading provider of community health needs assessments, economic impact studies, feasibility studies, economic development, and strategic planning, all with the philosophy of turning ideas into action to make the world a better place.

Tripp Umbach continues to expand its consulting services at the intersection of health care, higher education, community health, economic development, and real estate development. Tripp Umbach applies advanced economic design thinking tools to solve the most complex problems facing organizations, communities, and society.

L|E|C|O|M HEALTH