UMB sits on 71 acres in downtown Baltimore. Just blocks away are the city’s harbor and sports stadiums, as well as a growing arts and entertainment district.
The University of Maryland, Baltimore (UMB) is Maryland’s public health, law, and human services university. UMB is a leading U.S. institution for graduate and professional education and a prominent academic health center combining cutting-edge biomedical research and exceptional clinical care. The University shares a campus with its close academic and clinical partners: the University of Maryland Medical Center and the Baltimore VA Medical Center.

UMB enrolls 6,500 students in six nationally ranked professional schools and an interdisciplinary graduate school. We offer 40 doctoral, master’s, and bachelor’s degree programs and 10 certificate programs. Every year, UMB confers most of the professional practice doctoral degrees awarded in Maryland.
To Improve the Human Condition

UMB improves the human condition through leadership in education, research, clinical care, and public service. We train the professionals who work to secure the health, well-being, and just treatment of Maryland’s citizens. We create the knowledge that cures disease and strengthens communities, locally and globally. We develop the practitioners and innovators who drive discovery and fuel economic growth.

Three-quarters of UMB’s students are Maryland residents, but our reach is broad. Our students hail from nearly every U.S. state and 50 countries around the world.

UMB’s students are taught by 2,700 faculty members world-renowned in such fields as:

- global health
- genomics
- oncology
- HIV/AIDS
- vaccine development
- neuroscience
- transplantation
- trauma care
- nursing informatics
- gerontology
- child welfare
- health law
- cyber and privacy law
- pain management
- pharmaceutical sciences
- behavioral health
Derejew Tessema graduated from the School of Dentistry in 2016, after a 13-year career as an architect. His goal is to serve patients in the U.S. and in his home country of Ethiopia, where he says dental care is nearly absent. Tessema sees parallels between his two chosen professions: Both fuse science with art to achieve functional and aesthetic results.

DEREJEW TESSEMA, DDS
University of Maryland School of Dentistry, ’16
Since Margaret Hayes co-founded A Bridge to Academic Excellence in 2000, the program has provided tutoring for 1,200+ middle and high school students. People from every UMB school serve as tutors and mentors, offering students a glimpse of what their future might be.

MARGARET HAYES, MS
Director, Student Services and Outreach
University of Maryland School of Pharmacy
And Serve the Public Good

UMB’s faculty train students to be Maryland’s front-line providers tackling the greatest challenges of our time. We’re building the research foundation for delivering holistic and humane care to aging populations. We’re exploring the causes of debilitating pain conditions so that we can unburden patients of chronic suffering. We’ve created the largest childhood mental health training center in the U.S., helping states and jurisdictions build effective mental health systems for children. We’re giving patients a voice in their own care and letting them guide research in a way that ultimately improves that care for others. We’re assessing the legal and ethical implications of dynamic health care policy and technology, and how changes to both affect the well-being of individuals and populations.

A leader in interprofessional education, UMB teaches future physicians, lawyers, dentists, nurses, pharmacists, social workers, biomedical scientists, and allied health professionals to work together for the best patient and client outcomes.
John Cagle (center) teaches his social work students how to provide support for patients seeking hospice care and how to be a resource for their families. Cagle advocates for hospice as a means of providing humane end-of-life care and works with Baltimore City to improve residents’ access to it.

JOHN CAGLE, PHD, MSW
Assistant Professor
University of Maryland School of Social Work
Fueling the Knowledge Economy

UMB is a powerhouse economic engine for Maryland, training a professional workforce and delivering care and services that spur growth. With the University of Maryland Medical Center and affiliated physician practices, UMB stimulates $6 billion in economic activity each year. The University alone generates 18,000 jobs and returns $13 to Maryland for every dollar of state support.

UMB attracts $500 million in grants and contracts each year, and our faculty are among the nation’s most productive researchers, with each tenured/tenure-track faculty member annually bringing, on average, nearly $1 million in grant funding into UMB — and into Maryland. About two-thirds of the University’s total operating budget is revenue generated from research and patient care.

For every state dollar invested in UMB, the University returns $13 to Maryland.
UMB: BY THE NUMBERS

3 in 4  Share of UMB students who are Maryland residents

$2.8 billion  UMB’s annual economic impact on Maryland

68%  Share of UMB revenue generated by entrepreneurial activities

$40 million  Value of uncompensated care provided annually to Maryland residents

$500 million  UMB’s annual research funding

6,500  Students

$1.1 billion  Total UMB revenue

50  Degree and certificate programs

2 million  Hours of volunteer service contributed each year by UMB’s people

18,000  Jobs created by UMB

$13  UMB’s return on investment for every $1 of state support

500 million  UMB’s annual research funding

18,000  Jobs created by UMB

$13  UMB’s return on investment for every $1 of state support
Brian Sturdivant found his calling with the children who live in Baltimore’s most vulnerable neighborhoods. Sturdivant coaches city middle schoolers to statewide science championships and encourages them to think about careers in health care. He matches high school students with UMB research faculty for summer internships. He develops the young leaders Baltimore needs.

**BRIAN STURDIVANT, MSW**  
Director, Strategic Initiatives and Community Engagement  
UMB Office of Community Engagement
As one of Baltimore’s most powerful anchor institutions, UMB uses its influence, assets, and expertise to effect real and lasting change in the city — improving health, creating wealth, and advancing social justice.

This engagement ethic has yielded such initiatives as an expansive program providing holistic care to thousands of Baltimoreans living with HIV; an intensive mentoring program that puts city students on a path to good-paying careers in the health sciences; and the provision of health, wellness, and social services in a dozen Baltimore City schools to stabilize and strengthen families and help children achieve.

At the UMB Community Engagement Center in West Baltimore, the University offers job training and placement services for its neighbors. We provide critical resources there, like free legal advice, financial counseling, a fresh food market, and fitness classes. We partner with residents to advocate for and implement neighborhood-strengthening investments, policies, and programs.

UMB’s people dedicate 2 million hours in volunteer service to Marylanders each year and provide nearly $40 million in uncompensated care to the poor and underserved.
The University of Maryland R Adams Cowley Shock Trauma Center is the oldest and busiest trauma hospital in the nation. It serves more than 8,000 critically injured patients each year — double the average number of patients treated at U.S. trauma hospitals — and boasts a 97 percent survival rate. Thomas Scalea (center), Shock Trauma's physician-in-chief, leads a team of nearly 500 physicians, nurses, technicians, and staff.

THOMAS SCALEA, MD, FACS
Director, Program in Trauma
University of Maryland School of Medicine
Physician-in-Chief
R Adams Cowley Shock Trauma Center
Global Impact: Bench to Bedside

Each year, UMB’s faculty and students engage in 100+ nations, where they teach, study, conduct research with their in-country collaborators, and provide clinical care in underserved communities.

For instance, our medical school has research and treatment facilities in 35 countries. The school’s Institute for Global Health is at work around the world to prevent, control, and eradicate diseases of global impact. Its Institute of Human Virology has treated 1 million patients with HIV/AIDS in several African and Caribbean nations, as well as 6,000 patients back home in Baltimore.

The University of Maryland School of Medicine carried out the very first clinical trials for an Ebola vaccine in the U.S. and co-led the first Ebola vaccine trials in West Africa.
Even as a child in West Baltimore, Yolanda Ogbolu dreamed she would go to Africa and take care of children. Today, that’s exactly what she does. From her home base in Baltimore, Ogbolu travels regularly, serving as a research mentor to nurses in Nigeria and sustaining partnerships with several West African universities to help nurse leaders improve newborn survival.

YOLANDA OGBOLU, PHD, RN, CRNP
Assistant Professor
Director, Office of Global Health
University of Maryland School of Nursing
The Baltimore-Washington corridor boasts a U.S. top 5 biotech cluster, alongside such celebrated hubs as Boston/Cambridge and the San Francisco Bay Area.
UMB occupies 71 acres in downtown Baltimore, a short walk from the city’s bustling Inner Harbor and a 45-minute drive from Washington, D.C., providing easy access to the nation’s top policymakers and to powerful federal agencies, such as the National Institutes of Health and the U.S. Food and Drug Administration. This proximity supports close partnerships between UMB and federal researchers and yields joint discoveries with global impact.

Maryland’s D.C. suburbs are home to one of the nation’s largest biotechnology hubs, enabling UMB’s close collaboration with industry-leading pharmaceutical and technology companies and a thriving community of bioscience startups.
By the time Laura Dunn graduated from the Maryland Carey School of Law, she was already a nationally recognized advocate for victims of campus sexual assault, having served as the primary student negotiator on a federal rulemaking committee for the 2013 Violence Against Women Act Reauthorization. While still in law school, Dunn co-founded SurvJustice, a national nonprofit that helps sexual assault survivors secure a lawyer who will ensure that their privacy is protected and their rights asserted.

LAURA DUNN, JD
University of Maryland Carey School of Law, ’14
Academia and industry intersect at UMB. The University conducts more than 400 research projects and clinical trials on behalf of scores of companies each year, testing new industry drugs and therapies for such diseases as cancer, diabetes, and heart disease.

UMB is aggressive in moving science out of the lab and into the marketplace, where it can revolutionize human health and well-being. Nearly 100 UMB inventions are pushed to the marketplace each year, and new startup companies based on UMB’s intellectual property are raising private capital to accelerate the transition from idea to innovation to impact.

Over five years, UMB has disclosed 700 faculty inventions for patenting, launched 25 startups based on faculty work, and licensed 150 technologies to companies so they can turn them into life-saving, life-enhancing products.

A vaccine invented and developed in the School of Medicine’s Center for Vaccine Development is the first to win U.S. approval for protection against cholera.
Gliknik is one of the state’s most promising early-stage life sciences companies. Co-founded by Scott Strome, Gliknik creates new therapies for cancer and immune/inflammatory disorders. Pfizer has signed a multimillion-dollar licensing agreement with the startup to develop one of its discoveries that treats immune deficiency.

SCOTT STROME, MD, FACS
Professor and Chair, Otorhinolaryngology—Head & Neck Surgery
University of Maryland School of Medicine
Harpoon Medical is commercializing a device for **minimally invasive heart surgery**. The image-guided surgical tool allows repair of the heart’s mitral valve without opening the patient’s chest or stopping the heart. The technology was invented in the Division of Cardiac Surgery in the School of Medicine.

Analytical Informatics is a startup whose **software** improves health care **quality and operational efficiency** by aggregating huge quantities of health care data and giving providers real-time access to it. The software was developed — and the company founded — by faculty researchers in the School of Medicine.
Remedium Technologies has developed an FDA-approved patch that quickly stops severe bleeding during medical procedures, and the company has several more hemorrhage-control devices in its commercialization pipeline. Remedium is a joint company of the University of Maryland, College Park and UMB.

Tokai Pharmaceuticals is conducting Phase III clinical trials for a drug to treat hormone-resistant prostate cancer. Prostate cancer is the second leading cause of cancer death in American men. The drug candidate was developed by faculty in the School of Medicine.

Profectus BioSciences is conducting trials for its Ebola vaccine. In preclinical studies, the vaccine protected monkeys from the strain of the virus responsible for the deadly outbreak in West Africa. Profectus is also producing the material for an HIV/AIDS vaccine now undergoing clinical trials at UMB. Profectus was co-founded by the director of the School of Medicine’s Institute of Human Virology.
UMB’s students dedicate themselves to research and practice that improve health, advance well-being, and promote justice, both locally and globally.
The Maryland Proton Treatment Center, located in UMB’s BioPark, is the only facility in the Baltimore-Washington region providing advanced radiation therapy for the treatment of cancer.
A Place to Innovate

The University of Maryland BioPark is Baltimore’s biggest biotechnology cluster, with three dozen biotech companies, research institutes, and clinical facilities sharing the 12-acre park and actively building the city’s science community. Our BioPark advances the commercialization of new drugs, diagnostics, and devices by giving 850 research scientists and entrepreneurs the space to create and collaborate.

As demand for a dynamic innovation district keeps growing, so does the BioPark. At full build-out, the BioPark will house 2 million square feet of lab, office, clinical, and classroom space and bring needed retail properties and landscaped parks to West Baltimore.

BioPark tenant Breethe, Inc. is developing the world’s first portable artificial lung. It’s a wearable device for patients suffering respiratory failure and cardiopulmonary collapse, the first such out-of-hospital device in the commercialization pipeline. The technology was invented in the School of Medicine’s Program in Lung Healing.
Students and faculty at the University of Maryland Carey School of Law provide 70,000+ hours of free legal services each year to Maryland residents and organizations, making the school one of the region’s largest public interest firms. The school’s Clinical Law Program was the country’s first such program awarded the American Bar Association’s highest public service honor.

The Family Connections program, developed by the University of Maryland School of Social Work, is the nation’s only proven program to prevent child neglect. Now 20 years old and replicated across the country, Family Connections protects vulnerable youth by helping mothers and fathers who struggle with their parenting roles, strengthening their ability to care for their children.
The Institute for Genome Sciences (IGS) at the University of Maryland **School of Medicine** harnesses the power and potential of large-scale genomic research, exploring its applications in precision medicine, therapeutics, infectious diseases, virology, and cancer research. IGS Director Claire Fraser, PhD, was the very first scientist to map the complete genetic code of a free-living organism, a discovery that forever changed microbiology and launched a new field of study: microbial genomics.

The University of Maryland **School of Nursing** provides primary care to thousands of the state’s most vulnerable residents. The school’s Wellmobile is a nurse-managed mobile health clinic treating medically underserved populations near Washington, D.C. The Wellmobile’s patients are largely non-English speaking and uninsured, and most suffer from chronic illnesses, requiring comprehensive, coordinated care.

The University of Maryland **School of Dentistry** is the largest provider of oral health services for the state’s HIV patient population and for Maryland children receiving Medicaid. The school clinic logs more than 100,000 patient visits each year and provides more than $6 million annually in uncompensated care.

The University of Maryland **Graduate School** advances health and health equity through innovation in teaching and a commitment to the community. Its programs prepare scientists and health professionals who are not only capable but also deeply compassionate. The school is pioneering scholarship in areas like research ethics, global health, and palliative care. Its thanatology program studies the needs of terminally ill patients and their loved ones, helping them cope through death, dying, and bereavement.

The Maryland Poison Center, run by the University of Maryland **School of Pharmacy**, answers 50,000 calls a year from residents panicked about a potential poisoning — a toxic exposure in the workplace, a bad drug interaction or overdose, a toddler who got into the cleaning supplies, a spider bite. Seven in 10 cases are resolved on the phone, without a trip to the ER.
Among Maryland’s public universities, UMB accounts for nearly 25 percent of full-time graduate enrollment, and, each year, the University confers most of the professional practice doctoral degrees awarded in the state.

UMB is a vitally important source of highly educated professionals. The University’s graduates satisfy nearly one-third of Maryland’s total workforce demand in key health, law, and human services occupations.
A History of Excellence

The University of Maryland, Baltimore traces its history to 1807, when the Maryland General Assembly chartered the nation’s first public medical school along a ridge in old Baltimore Town. In 1812, the state rechartered the College of Medicine as the University of Maryland and expanded the institution’s mission. UMB’s close clinical partner, the University of Maryland Medical Center, was established in 1823, making it one of the oldest teaching hospitals in the U.S.

Six more schools would be established at UMB over the next 138 years, including the world’s very first dental school, America’s third oldest law school and fourth oldest pharmacy school, and one of the country’s first formal training programs for nurses.

UMB remains dedicated to the same purpose today as it was at its founding more than 200 years ago: Improve the human condition and serve the public good.
FOR MARYLAND. FOR THE WORLD. UMB has been serving people in need for more than 200 years.