

EMORY
UNIVERSITY
SCHOOL OF
MEDICINE

In the service of humanity

AT THE EMORY SCHOOL OF MEDICINE,
WE'RE DEDICATED TO
CHALLENGING THE CONVENTIONS OF TRADITIONAL CARE
AND RESHAPING HOW MEDICINE IS PRACTICED.

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Reimagining medicine

We are living at a unique time in biomedical history. We've seen a convergence of complementary forces that are helping us change the way we think of medicine.

For the first time, we have a complete "parts list" of genes and other building blocks, which means we can personalize therapies. At the same time, we are in the midst of an IT revolution that lets us gather data, mine it and visualize it in sophisticated ways, and act on it in real time in the ICU or predict future health challenges, personalized to each individual. And new technologies that enable earlier diagnoses, such as novel imaging modalities that probe the human organism, wearable sensors to record physiologic parameters and sophisticated blood tests that measure the action of thousands of genes. Add to those the twenty-first century patients, who are well-informed, empowered, and incredible advocates for change.

These forces are now converging to allow us to take on the big problems and have a good chance of finding solutions to ones that have frustrated us for so long.



WITH **27** CLINICAL AND BASIC SCIENCE DEPARTMENTS, OUR **3,300** FACULTY MEMBERS HAVE A BROAD RANGE OF EXPERTISE THAT COVERS EVERY AREA OF MODERN MEDICINE.



Uniquely positioned to make a difference

Embedded within Emory University and its Woodruff Health Sciences Center, we have close ties to the Goizueta Business School, Rollins School of Public Health, Emory National Primate Research Center, the university's department of chemistry, and many other academic resources.

School of Medicine faculty provide clinical care and train the next generation of providers in multiple health care systems across Georgia including:

- Emory Healthcare, the most comprehensive academic health system in Georgia
- Children's Healthcare of Atlanta - one of the largest pediatric health systems in the U.S.
- Grady Hospital, a Level I trauma center and safety-net hospital for traditionally underserved populations
- Atlanta VA Medical Center, one of the nation's most respected veterans hospitals









The Wallace H. Coulter Department of Biomedical Engineering, a joint department at Emory School of Medicine and Georgia Tech, is the no. 2 ranked biomedical engineering department in the U.S.

Emory is one of eight members of the Georgia Research Alliance, a national model of partnership between state government, industry, and research universities.

The Georgia Clinical & Translational Science Alliance links Emory with the University of Georgia, Georgia Tech, and Morehouse School of Medicine in an NIH-sponsored alliance aimed at accelerating clinical and translational education, research, and community engagement to impact health in Georgia and beyond.

Emory's work treating Ebola patients resulted in best practices for health providers treating those with highly contagious diseases. Emory is one of three medical centers that make up the National Ebola Treatment and Education Center, which helps share those findings.

Emory is adjacent to the *U.S. Centers for Disease Control and Prevention* (CDC) and is a long-time partner in global and national prevention and research initiatives. Emory medical faculty are research collaborators with CDC scientists and serve on CDC-led advisory committees. Former longtime CDC leaders have joined Emory in key leadership positions in medicine and public health. Emory has received more than $180 million in CDC research funding over the past 10 years for infectious disease and prevention research. Emory's Serious Communicable Diseases Unit, which successfully treated four patients with Ebola virus disease in 2014, was built in 2003 in collaboration with CDC to treat CDC personnel infected in the field.

A key component of our Excellence to Eminence strategic plan is to continue building partnerships and connections across disciplines, departments and institutions. With these resources and a team of bold thinkers who are willing to take risks to achieve something great, we believe there are no limits to what we can accomplish.



LEADERSHIP Dean Vikas Sukhatme came to Emory in 2017 as a basic science and clinical researcher, educator, and clinician, with goals to reimagine medicine as a community and improve health for all.



A path to research eminence

Emory School of Medicine has consistently remained in the top 20 among U.S. schools of medicine in external NIH research funding and represents a significant portion of the WHSC and University total research portfolio.

Still, we know that research excellence is best measured in life-changing discoveries. We are committed to moving from excellence to eminence by focusing on strategic priorities including the following:

- Vaccines, Infectious Diseases, and Immunology
- Brain Health and Aging
- Cancer
- Informatics, Technologies, and Biomedical Engineering
- Cardiovascular Health
- Child Health







One example of our path to eminence has been the School of Medicine's impact in addressing the COVID-19 pandemic. Since 2020, Emory School of Medicine faculty and trainees have cared for over 20,000 infected patients admitted to our hospital systems with remarkable best-in-class success. Our investigators have led studies in COVID-19 therapeutics (drugs and monoclonal antibodies) and vaccines leading to FDA emergency use authorization or licensure, informed public health policies including recommendations for special populations (pregnant, children, immunocompromised and elderly) and contributed through highly cited papers to scientific understanding of the pandemic. Emory has been in the top five academic institutions in the nation for COVID-19 research funding from the NIH and is also leading efforts in COVID-19 diagnostics and the post-acute COVID-19 syndrome.

Additional strategic priorities include investment in the School of Medicine's Imagine, Innovate, and Impact (I^3) Awards to support bold, interdisciplinary research ideas; building extraordinary infrastructure, such as the new Health Sciences Research Building (HSRB II); enhancing synergy by promoting partnerships with regional academic and clinical partners, and promoting a culture of innovation and entrepreneurship.



Growing to meet the need

The eight-story building—the largest research building on Emory's campus—is focused on collaboration to facilitate rapid discovery.

Game-changing discoveries require an investment in extraordinary infrastructure. Emory University's latest beacon of biomedical research, the Health Sciences Research Building II (HSRB II) is a best-in-class facility that will boast unique, collaborative spaces that foster connectivity and synergy to translate scientific discoveries and entrepreneurial research into practical solutions. Providing laboratories for 130 principal investigators from across specialties, HSRB II will enable Emory and our partners to accelerate breakthroughs in imaging sciences, biomedical engineering and informatics, brain health, cardiovascular medicine, child health, cancer, inflammation, immunity and immunotherapy, and emerging infections to reduce the burden of disease for patients and their families.

HSRB II will inspire connectivity, collaboration, and innovation, removing boundaries and inviting cross-disciplinary research with access to some of the most sophisticated imaging equipment available today. This kind of collaboration leads to bold new ideas that will span the entire spectrum of discovery, from basic science to applied translational research.





REIMAGINING MEDICINE FROM THE GROUND UP

Along with the existing HSRB I, this new hub will bring together external and internal experts to create and share knowledge for global impact. Simply stated, HSRB II will transform patient care.

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- An accelerator space occupied by startups and entrepreneurs will spur the development of market-based innovations.
- A light filled central atrium with a living five-story green wall, open connected stairs, café, innovation spaces, formal and informal meeting spaces will promote interaction between faculty, staff, industry partners and visitors.
- Large digital experiential collaboration platforms will drive discussion of burning scientific questions, celebrate scientific discovery at Emory and connect diverse scientific groups.
- By using interdisciplinary design strategies, we reduced the building's predicted energy use intensity (pEUI) by more than 50% of industry average for a resource-intensive science building program.



An education to solve the problems of today and tomorrow

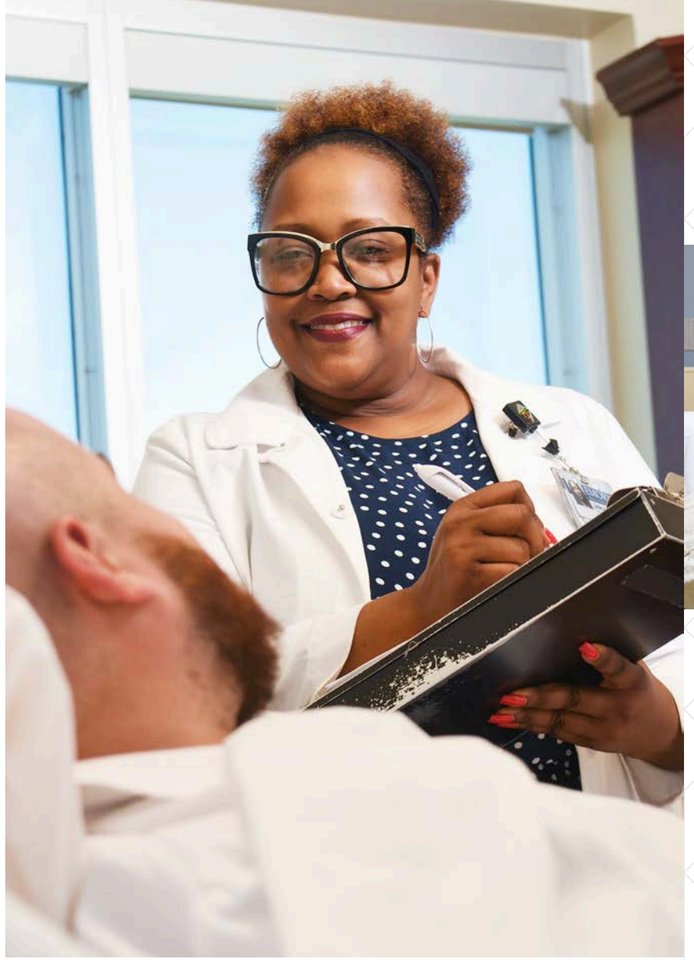
At Emory School of Medicine, we teach health care that's focused on people. The next generation of medical leaders is changing the game, taking risks and inspiring us to rethink what's been done before.

Our educational and training programs include medical students, graduate students, residents, fellows, postdoctoral students and students in the allied health professions. Emory trains nearly 600 medical (MD) students, nearly 500 academic health professions students across five degree programs–physical therapy (DPT), physician assistant (MMSc-PA), physical therapy (DPT), anesthesiology (MMSc), genetic counseling (MMSc), and medical imaging (BMSc). We also train more than 1,350 residents and fellows.

The school has 93 MD/PhD students in 1 of 48 NIH-sponsored Medical Scientist Training Programs. We teach students in a joint biomedical engineering department with Georgia Institute of Technology, and offer a joint MD/MSCR (master's in clinical research) degree, an MD/MPH degree with the Rollins School of Public Health, and an MD/MA in bioethics with Emory's Laney Graduate School. Dual programs with law (juris master) and business (MBA) also are available. We train pre-doctoral bioscience researchers in several programs in the Graduate Division of Biological and Biomedical Sciences.

We recently completed a medical education strategic planning process focused on developing innovative and transformative educational models for all our learners. Our educational programs are widely known for producing superior clinical providers and outstanding scientists. When our MD program curriculum was last revised in 2007, we were among the first in the country to shorten the pre-clinical period, introduce early clinical exposure, implement a research block, develop a comprehensive service-learning curriculum, and to prioritize our students' health and wellness. These accomplishments have laid the foundation for the next phase of medical education at Emory.

Now, we must extend the guiding principles and practices that have been instrumental in moving our institution toward eminence in research and clinical care–creativity, innovation, diversity, equity and inclusion, community engagement, data-driven problem-solving, and a focus on building connections across disciplines–to the student experience. Our graduates will continue to be excellent clinicians and scientists, but in today's environment they must also be able to lead change across health systems and communities.











LEARN MORE about Emory School of Medicine at med.emory.edu/changethegame.



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