

2019

Prospectus

Vice President for Health Affairs and
Dean, School of Medicine



WAYNE STATE
UNIVERSITY



Wayne State University

Vice President for Health Affairs and Dean, School of Medicine

Wayne State University is a premier, public, urban research university located in the heart of Detroit. Founded in 1868 by physicians determined to advance medicine beyond the limited care available on Civil War battlefields, the university's faculty today serves a diverse body of nearly 28,000 students through a broad array of academic programs.

Thirteen schools and colleges present the university's comprehensive academic offerings: Mike Ilitch School of Business; College of Education; College of Engineering; College of Fine, Performing and Communication Arts; Graduate School; Law School; College of Liberal Arts and Sciences; School of Information Science; School of Medicine; College of Nursing; Eugene Applebaum College of Pharmacy and Health Sciences; Irvin D. Reid Honors College; and the School of Social Work. Wayne State University is also home to the Perinatology Research Branch of the National Institutes of Health and to the Karmanos Cancer Institute, a National Cancer Institute-designated comprehensive cancer center.

Throughout its history, the university has provided students from all backgrounds the opportunity to enjoy a high-quality education that enables them to realize their full potential. The rich, multicultural environment prepares students for success and leadership in a diverse, global society and enriches the communities it serves.

Wayne State University is one of only a handful of U.S. public urban universities to receive the highest Carnegie Foundation ratings for both research intensiveness and community engagement. The university's faculty and staff have provided an excellent educational experience for hundreds of thousands of students, who have contributed to the region and nation in every field of endeavor, including as corporate chief executive officers, government leaders, judges, teachers, policy makers, university presidents, astronauts, scientists, physicians, writers and actors.



The university is located in the middle of Detroit, a city that is both a symbol of the American Dream and a kaleidoscope of cultures, ambition, inspiration, contradictions and challenges. After a long period of growth, Detroit suffered substantial urban decline during the last two decades of the 20th century, but its spirit and resilience have surged over the last decade. There is a fresh vision full of energy for the future including new leadership, major capital investment and economic growth all embedded within a special sense of mission. Though it stands at a crossroad, Detroit is poised for success — and the world is watching.

President M. Roy Wilson, a highly regarded physician-scientist and member of the National Academy of Medicine, became the 12th president of Wayne State University in 2013, and the university has experienced dramatic growth across all aspects of its mission during his tenure. The vision and focus for the university as it works closely with the broad communities that it serves is captured in its five-year strategic plan (<https://strategicplan.wayne.edu/download/strategic-plan.pdf>).

Examples of university education and research milestones over the last five years include the following.

- Enrollment in the fall 2018 saw the largest full-time incoming freshman class in the university's history: 2,957 students, an increase of 15% over 2017, with an average 3.4 grade point average for the incoming class, including 44% minorities, a 28% increase in new Hispanic students, and a 13% increase in new African American students.
- An increase in total extramural research funding from \$150M (2013) to \$250M (2018), setting a new university record, and an increase of federal extramural research funding by 38% since 2013.
- The opening of the new research facility - Integrative Biosciences Center (IBio) – committed to thematic focused initiatives of relevance to the university mission in the city of Detroit.
- Substantial investments and enhancements in technology transfer and commercialization initiatives.

- Establishment of the James and Patricia Anderson Engineering Ventures Institute
- Expansion of buildings and programming: in 2018, the new \$60 million Mike Ilitch School of Business; in 2019, a new residential housing facility for students (800 beds); in 2020, a new \$35 million STEM education center; and in 2021, the new \$65 million Hilberry Gateway Performance Complex (theatre, music, dance).

Detroit, with its reputation for innovation, is at an exciting point in time, with many rapidly expanding development activities underway. Its vibrant downtown and cultural center envelop the Wayne State University campus, which plays a key role in the rapidly accelerating

forward growth of the city. With immediate proximity to Canada and its location in the middle of the Great Lakes region, as well as several professional sports teams, an opera and a world-renowned symphony, Detroit and the metropolitan area (~5 million population) provide a rich culture with exceptional recreational and entertainment activities. Midtown is one of the country's fastest-growing neighborhoods. The campus includes 200 acres of green space, walking paths and state-of-the-art facilities surrounded by renowned cultural institutions and industry-leading employers. Every day, Wayne State students and faculty participate in the reinvention of a great American city as they live, learn, work and play in the heart of Detroit.



The Opportunity

The Vice President for Health Affairs and Dean of the School of Medicine will play a critical role in the continued growth of the university and its broad initiatives in the health sciences and across the campus. The successful individual will have the opportunity to shape the future of academic medicine and academic health science centers, providing leadership in a dynamic and rapidly evolving environment that is unlike any place in the world.

The evolving and critical roles of academic health centers and public research universities present an extraordinary set of opportunities for transformational impact in the communities that they serve.

This is particularly true in a city like Detroit, in which the urban environment is undergoing significant economic and infrastructure development. Wayne State University and Detroit have experienced substantial positive changes over the last five years that have had broad impact on the institutions and the involved communities. The pace of renewal continues to accelerate.

A key next step for the university and the city involves the further integrated development of an academic health sciences center to enhance partnerships among the university's

health affairs schools and colleges and existing and potential health care provider partners. The Vice President for Health Affairs and Dean of the School of Medicine will lead this initiative in collaboration with key institutional leaders and strategic partners.

Central to this leadership will be collaborations to further enhance interdisciplinary and inter-professional research, education and clinical care within the School of Medicine and across the health affairs colleges and primary affiliated health systems.

The successful candidate will have a special opportunity to: a) shape the future of a School of Medicine that is uniquely positioned for broad impact across all aspects of its mission; b) lead an interprofessional team to enhance cross-disciplinary collaboration that advances the health affairs-related mission of the university; c) collaborate with key stakeholders to develop new methods of research, education and care delivery that serve as a global model for urban-based academic health centers and address the health needs of the diverse and vulnerable populations of Detroit, Southeast Michigan, and the upper Midwest; and, d) make signature contributions to the role of academic health centers and the public health mission in urban environments.

Primary Responsibilities and Expectations

As Vice President for Health Affairs, this person will report to the President and serve as a senior leader for Wayne State's health affairs-related initiatives, including responsibility for clinical affairs within the College of Nursing and the Eugene Applebaum College of Pharmacy and Health Sciences.

As Dean of the School of Medicine at Wayne State University, the person in this position will report to the Provost and Senior Vice President for Academic Affairs (hereinafter, Provost) and

will serve as the senior academic leader for the School of Medicine, including overall responsibility for all of its academic, educational, and clinical programs, and relationships with all of the clinical practice plans affiliated with the School of Medicine.

The deans in the College of Nursing and the Eugene Applebaum College of Pharmacy and Health Sciences report to the Provost for academic affairs and to the Vice President for Health Affairs for clinical affairs.

As Vice President of Health Affairs, the successful candidate will:

- Serve as a member of the University President's Cabinet.
- Advance the university's health science and clinical goals with a compelling vision for the future.
- Work closely in collaboration with the Provost and the Vice President for Research in areas of joint responsibility in the health sciences.
- Work collaboratively with the deans of the College of Nursing and the Eugene Applebaum College of Pharmacy and Health Sciences to a) integrate and align clinical care and education opportunities in partnership with health care provider networks, b) develop and implement interprofessional programs for education and professional development and c) foster intercollegiate research efforts.
- Champion collaboration among the constituent components of Wayne State University, including the health science schools and colleges, the hospitals and the systems' outpatient faculty practices regarding clinical resource allocation decisions.
- Work closely with the senior leadership team of primary affiliated health care provider networks to establish productive partnerships that align with and nurture our mission as an academic health sciences center.
- Collaborate with the Deans of the College of Nursing and Eugene Applebaum College of Pharmacy and Health Sciences to integrate contemporary, multidisciplinary clinical education in order to provide excellent clinical programs for a diverse student population.
- Provide a culture and environment for the pursuit and advancement of world-class science.
- Lead the development of bold, thematically driven strategic partnerships that integrate education, clinical care, training and research in strategic areas of strength and distinction.
- Work with the president and Vice President for Government and Community Affairs on relevant health-related legislative and policy issues at the community, state and federal levels.

- Encourage ethical medical and financial practice by supporting compliance and audit professionals.
- Ensure the creation of a working environment that is respectful of the various types of contributions made by administrators, faculty members, staff and others.
- Foster an environment of trust, integrity and accountability while enabling a positive climate for learning, research and patient care.

As Dean of the School of Medicine, the successful candidate will:

- Serve as a member of the Provost's Council of Deans.
- Lead the Dean's senior team in the School of Medicine to develop and nurture the highest standards of excellence for research, education, clinical care and community engagement.
- Lead the clinical department chairs in the School of Medicine and the Dean's senior team to develop and maintain robust physician practice plans that implement the highest standards of clinical care for the communities served and align with mission as an academic health center.
- Lead the School of Medicine's budgeting process, manage resources effectively, and reconcile divergent views in financial decisions.
- Actively collaborate and consult with basic science and clinical faculty through the School of Medicine's and university's academic governance institutions, building trust in leadership objectives and commitments.
- Develop and implement a broad vision for the continued growth of research and development programs in the School of Medicine.
- Lead the fundraising efforts for the School of Medicine working together with the President and the Vice President for Development.
- Envision, coordinate and facilitate strong and creative basic, clinical and population health education and training programs in the School of Medicine.
- Assure that excellent preclinical and clinical education is delivered to a diverse student population that reflects the demographics of the region and the nation, and that fosters the training of future leaders in medicine
- Standardize and codify health system support and program structure for undergraduate and graduate education programs, patient care and for new clinical program development in the School of Medicine.
- Support existing programs and foster development of new leading-edge programs for graduate and post-doctoral student education.
- Provide leadership to enhance diversity and promote cultural competence within the School of Medicine.
- Recruit and retain diverse, top quality faculty and leaders to ensure that the School of Medicine has the necessary talent to implement its strategic plan. Be sensitive to cultural diversity, including women and minorities in leadership positions.

Critical Competencies and Personal Characteristics

The Vice President for Health Affairs and Dean of the School of Medicine will:

- Communicate clearly and effectively, particularly in times of change and ambiguity, to articulate a vision and related action items to diverse stakeholders at all levels of the organization.
- Be a trustworthy leader who embodies the highest personal integrity and solves problems through an effective blend of personal influence and direct authority.
- Demonstrate a passion for, and commitment to, all components of the academic health affairs mission, including professional and graduate education and student success, research, clinical care, and community engagement.
- Understand how to work within a dynamic, multifaceted organization, including working effectively with diverse stakeholders, balancing competing demands, anticipating consequences, and articulating appropriate compromises in order to reach strategically appropriate decisions.
- Carry out the organization's strategic mission with appropriate regard for public demands (especially for a state-created organization) and private needs.
- Demonstrate a commitment to shared governance and consultation with faculty, students, and other key stakeholders.
- Understand the collective bargaining environment and work within that framework to respect faculty and staff union rights.
- Demonstrate command of budgetary processes and possess strong financial and business acumen that frames and manages expectations, timelines, and goals to deliver demonstrable results.
- Evidence understanding of and commitment to undergraduate and graduate medical education, including renewal of the medical curriculum and enrichment of the medical student experience.
- Possess high emotional intelligence and interpersonal skills that provide the ability to work together with a collegial faculty and the broad university community toward a positive and respectful spirit.

Key Selection Criteria

Candidates for the position will be selected from a diverse pool and will be evaluated according to the following criteria:

- A medical degree (M.D.) is required.
- A track record of personal accomplishments and distinguished academic credentials that provide the experience and reputation suitable to lead the education, research, and clinical health affairs missions of Wayne State University is necessary.
- A track record of success as a physician scientist including scholarly contributions and discovery as supported by peer-reviewed extramural funding is preferred.
- A previous successful leadership role with responsibilities for finance and budgets, strategic direction, recruitment and philanthropy within a major academic health center as a chancellor, dean, vice dean, academic teaching hospital CEO, department chair, institute director or similar relevant senior leadership role is desired. An equivalent role in industry will be considered if combined with a prior faculty or leadership role in academia.
- Evidence and understanding of, and commitment to, interdisciplinary and inter-professional collaboration in education, research, and clinical care is essential.
- A clear commitment to the principles of diversity, equal opportunity and inclusion is required.
- Demonstrated managerial, financial and business acumen is necessary, including experience with, and proven understanding of, the complex financial pressures facing medical schools and academic health care delivery organizations.
- The ability to effectively articulate a compelling vision and motivate a senior leadership team as a consensus builder who can provide the necessary guidance and direction to achieve strategic goals and improve the organization is required.
- Political astuteness and ability to work well with diverse constituencies both within and outside the organization—including faculty, staff, students, academic governance institutions within the schools and colleges, the university's Academic Senate, the AAUP-AFT union, governmental agencies and personnel, and the broader community—is required.
- Demonstrated success in fundraising and philanthropic pursuits, including a track record of attracting financial resources from both individuals and institutions, is essential.

Key Relationships

The Vice President for Health Affairs shares oversight and responsibility for the health affairs colleges and schools with the Provost & Senior Vice President for Academic Affairs.

The Vice President for Health Affairs and Dean of the School of Medicine serves as:

- Ex-officio board chair, Wayne State University Physician Group
- President, Fund for Medical Research and Education

The Vice President for Health Affairs has strong collaborative relationships with senior University administration, including the members of the President's Cabinet and the Council of Deans.

Other important relationships include non-university clinical service groups (practice plans) related to the role as president of the Fund for Medical Research and Education

- Radiology (Envision Radiology)
- Anesthesiology (NorthStar Anesthesia)
- Pediatrics (University Pediatricians)
- Emergency Medicine (Medical Center Emergency Services)

Wayne State University teaching affiliates and related clinical entity leadership

- Ascension Michigan
- Barbara Ann Karmanos Cancer Institute and Hospital
- Beaumont Hospital – Dearborn
- Detroit Medical Center
- Henry Ford Health System
- John D. Dingell VA Medical Center
- St. Joseph Mercy – Oakland

Applications, Inquiries, and Nominations

Interested candidates should provide a curriculum vitae and a letter of interest including, but not limited to, relevant educational, teaching, research and leadership background. A full position description is found at <https://searches.med.wayne.edu/vp-dean>.

Wayne State University is a premier, public, urban, comprehensive research university (R1 – Carnegie classification) located in the heart of Detroit where students from all backgrounds are offered a rich, high quality education. Our deep-rooted commitment to excellence, collaboration, integrity, diversity and inclusion creates exceptional opportunities preparing students and faculty in a diverse, global society. WSU encourages applications from women, people of color, and other underrepresented people. WSU is an affirmative action/equal opportunity employer.

For questions or additional information on this opportunity or to provide recommendations for the position, please contact:

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Wayne State University School of Medicine

The School of Medicine has over 1,200 students, 900 full-time faculty, more than 23,000 alumni, \$177 million in external grant funding and provides over \$11 million in grants/scholarships. More than 10,000 students applied for the class that began in 2019.

The School of Medicine sponsors nine graduate medical education residency and fellowship programs in the following disciplines: anesthesiology, dermatology, family medicine, internal medicine, ophthalmic plastic and reconstructive surgery, otolaryngology, preventive medicine, transitional year, and urology. The School of Medicine has a broad commitment to public health that includes the Master of Public Health Program and the Graduate Certificate in Public Health Practice.

The School of Medicine has over 400 graduate students enrolled in 20 Ph.D. and 9 M.S. programs

and NIH supported training programs in cardiovascular biology and in cancer biology. Over 30 students are currently enrolled in the M.D., Ph.D. joint degree program.

The school has six dedicated research laboratory buildings located on its campus. The new 200,000-square-foot Integrative Biosciences Center (IBio) serves as a core of basic and translational research programs focused on thematic-based translational thrusts of relevance to our communities and that align with the role of the institution as a public, urban serving, research university.

Wayne State University hosts the Perinatology Research Branch of the Eunice Kennedy Shriver National Institute of Child Health and Human Development. The branch was created by an act of Congress to address the problems of infant mortality, with a special focus on prematurity.

The Maternal-Fetal Medicine Fellowship is a combined Wayne State University/NIH fellowship that places strong emphasis on fetal imaging, clinical and translational research, placental pathology, and mechanisms of disease in perinatal medicine.

Wayne State University is home to a National Cancer Institute designated comprehensive cancer center, the Barbara Ann Karmanos Cancer Institute (KCI) a distinction that the

center has held since 1978. This urban-based center of research, patient care and education is dedicated to the prevention, early detection and treatment of cancer. The cancer center annually receives more than \$58 million in extramural peer-reviewed funding and operates one of the largest Phase I clinical trials groups in the country, with significant contributions to the success of numerous anti-cancer drugs, including paclitaxel, erlotinib and lapatinib.



A culture of care and service in Detroit since 1868

For more than 150 years, the Wayne State School of Medicine has prepared students to be health care leaders and advocates who go on to change the world. The university's dedication to urban clinical excellence and its contribution to Detroit's revitalization is unwavering. Wayne State's community service roots run deep, and its focus on a healthier world grows ever stronger. Through social responsiveness and a continuous focus on innovation in education, research and clinical care, the Wayne State School of Medicine continues to graduate a diverse group

of physicians and biomedical scientists who will transform the promise of equal access to health care for all into a reality.

The university is privileged to serve the community, state, nation and the world as innovators in medicine, health, prevention and wellness. Community service has been in the very marrow of the Wayne State University School of Medicine since its founding in 1868, as evidenced by the school twice being named a finalist in four years for the Association of

American Medical College's Spencer Foreman Award for Community Service. The services provided by the School of Medicine's students and faculty, along with the medical research related to the populations it serves, compose the sinew that inextricably binds the school to a dynamic and rapidly evolving international urban center.

Students choose the Wayne State University School of Medicine because of its reputation for urban clinical excellence. Its location in the heart of Detroit provides physicians in training with the opportunity to experience and address the immediate, hands-on, frontline needs of an urban population suffering from decades of health disparities. Students remark that they chose Wayne State because they want more than a medical education — they want to dig into the community and help its people, even before receiving their medical degrees.

Wayne State School of Medicine students continuously recognize community and world needs, and devise methods to address those needs, from its Street Medicine Detroit group — which sees medical students provide care for Detroit's homeless population — to the annual World AIDS Day Detroit program, which spotlights the need for education and testing for a vulnerable population. Students treat the community's underserved in established clinics; in 2008, School of Medicine students founded Michigan's first student-led free clinic. Students also organize and present the annual Reach Out to Youth event to show young urban students from underrepresented minorities that they, too, can have careers in health care and assist in meeting the needs of their community.



Accomplishments and contributions

- Discovery of Zidovudine (azidothymidine), the first FDA-approved drug to treat AIDS.
- First use of a mechanical heart pump in open-heart surgery.
- Establishment of permanent in vitro cell lines for hormone-responsive breast cancer (MCF-7) and for premalignant breast lesions (MCF-10).
- Creation of a novel technology — optogenetic strategy — for restoring vision.
- Development of *Make Your Date*, a cost-effective way to support expectant mothers at risk of preterm birth, reducing the risk of preterm birth by as much as 50%.
- Investigators at Wayne State University and the Perinatology Research Branch developed a “placenta-on-a-chip” to study the inner workings of the human placenta and its role in pregnancy. The device imitates, on a micro-level, the structure and function of the placenta and models the transfer of nutrients from mother to fetus. Award-winning community engagement and service learning-focused curriculum unparalleled in the U.S. in size, opportunity and scope, with 70 clinical and 100 outreach locations. Year 1 and 2 students annually dedicate more than 34,000 hours of community service.
- More than 50% of the graduating School of Medicine’s Class of 2018 stayed in Michigan for their residencies.
- There are over 22,000 alumni in 50 states and 30 countries.
- One of 11 institutions named to the NIH’s *Strategies to Innovate EmeRgENcy Care Clinical Trials Network (SIREN)*.
- One of 16 centers of excellence in the country for the care and research of those with traumatic brain injury.



Programs

The School of Medicine comprises three basic science and 19 clinical science departments.

Academic and clinical departments

- Anesthesiology
- Biochemistry, Microbiology and Immunology
- Dermatology
- Emergency Medicine
- Family Medicine and Public Health Sciences
- Internal Medicine
- Neurology
- Neurosurgery
- Obstetrics and Gynecology
- Oncology
- Ophthalmology, Visual and Anatomical Sciences
- Orthopedic Surgery
- Otolaryngology, Head and Neck Surgery
- Pathology
- Pediatrics
- Pharmacology

- Physical Medicine and Rehabilitation – Rehabilitation Institute of Michigan, DMC
- Physiology
- Psychiatry and Behavioral Neurosciences
- Radiology
- Surgery
- Urology

Centers and institutes

- Barbara Ann Karmanos Cancer Center
- Cardiovascular Research Institute
- Center for Human Growth and Development – C.S. Mott Center
- Center for Molecular Medicine and Genetics
- Center for Urban Responses to Environmental Stressors/ Institute of Environmental Health Sciences
- Clinical Research Service Center
- Kresge Eye Center
- Ligon Research Center of Vision
- Michigan Poison Control Center
- Translational Neurosciences Initiative



Wayne State University College of Nursing

Founded in 1945, the Wayne State University College of Nursing is dedicated to providing the highest quality education to a diverse population of students through its B.S.N., M.S.N., Ph.D., D.N.P. and graduate certificate programs, with a distinct focus on urban health and health equity.

In 2018, the College of Nursing had 756 students (435 undergrad, 321 graduate), 64 faculty members, \$6.2 million in external funding and \$411,000 awarded in grants/scholarships.

The College of Nursing has made dramatic gains in national rankings in the past five years and is recognized in the top 20% in the country, particularly with respect to graduate education. The M.S.N. program is ranked #43 and the D.N.P. program is ranked #38 in the

country. Both of these programs are ranked #2 in the State of Michigan.

The college's location in Midtown Detroit benefits students, faculty and staff, and the city. The college affirms and demonstrates its commitment to the advancement of urban health and health promotion, and to the preparation of an exceptionally talented and diverse nursing workforce, ready and able to lead in contemporary health care practice.

Partnerships with and proximity to numerous health centers, hospitals, clinics and community centers have helped the College of Nursing develop solid community partnerships that contribute to the success of its students and faculty.

Graduates are prepared to be nurse leaders in research, education and practice. Because of its success in research, education and service to the urban community, the college helps advance the profession of nursing and the health of the city, state and beyond. Its more than 10,000 alumni are a source of pride and a testament to this dedication.

The college of nursing has a number of pathways leading to a bachelor of science in nursing, including Traditional B.S.N., B.S.N. Direct Admit for Freshmen, B.S.N. Second Career/Degree (CD2), RN to B.S.N. and B.S.N. for Veterans.

Individuals with a B.S.N. may apply to the master of science in nursing (M.S.N.) program, which

offers several clinical specialties, or the M.S.N. in advanced public health nursing (APHN) program, the only one of its kind in Michigan.

The doctor of nursing practice (D.N.P.) program enables those who possess a bachelor's or master's degree to obtain a D.N.P. The program emphasizes the development of the student's capacity to impact the clinical setting as leaders and educators, and to use clinical research to improve and transform health care.

The doctor of philosophy in Nursing (Ph.D.) program enables those with a bachelor's or master's to obtain a doctoral degree in nursing. The Ph.D. program prepares nurse researchers and scholars.



Wayne State University Eugene Applebaum College of Pharmacy and Health Sciences

The Eugene Applebaum College of Pharmacy and Health Sciences educates and trains students in a broad range of health professions and pharmacy-related scientific disciplines. The dedicated clinical and tenure-track faculty and staff are committed to training students to become leaders in their professions and in pharmaceutical and health sciences research.

In 2019, the college had 964 students, 121 full-time faculty, more than 15,000 alumni. For the first time in its history, externally funded research grants surpassed \$6.1 million.

The college is located in the heart of Detroit, adjacent to the Detroit Medical Center. Stu-

dents in the health professional programs complete clinical training in many of the leading hospitals in Southeast Michigan, and graduate students in the pharmaceutical sciences receive top-notch bench training by well-funded pharmacy researchers. The College prepares students for careers in 11 disciplines: pharmacy, physical therapy, occupational therapy, physician assistant studies, pathologists' assistant, forensic investigations, mortuary sciences, radiologic technology, radiation therapy technology, clinical laboratory sciences and nurse anesthesia.

The Eugene Applebaum College of Pharmacy and Health Sciences offers a first-class student

experience through enhanced teaching models; faculty, peer and alumni mentoring opportunities; access to technology; and exposure to a strong alumni network across the nation. Our students perform at the highest levels on their certification exams and are highly sought employees.

Degree programs

Applied Health Sciences

- Clinical Laboratory Science (B.S.)
- Forensic Investigation (Certificate)
- Mortuary Science (B.S.)
- Pathologists' Assistant (M.S.)

Health Care Sciences

- Nurse Anesthesia (D.N.A.P.)
- Occupational Therapy (M.O.T.)
- Physical Therapy (D.P.T.)
- Physician Assistant Studies (M.S.)
- Radiation Therapy Technology (B.S.)
- Radiologic Technology (B.S.)

Pharmacy

- Doctor of Pharmacy (PharmD)
- Medicinal Chemistry (M.S.) (Ph.D.)
- Pharmaceutics (M.S.) (Ph.D.)
- Pharmacology and Toxicology (M.S.) (Ph.D.)

Pharmacy Practice

- Doctor of Pharmacy (PharmD)
- Post-Doctoral Programs

Selected relationships and programs in the health sciences

In addition to the professional health sciences schools and colleges at Wayne State University, the School of Medicine collaborates with other health centers and hospitals through joint research initiatives, clinical care delivery, and/or student and resident training agreements.

- *Detroit Medical Center* - The Detroit Medical Center includes a 110-acre campus located in Midtown Detroit as well as three additional hospital sites in Southeast Michigan and the University Health Center Outpatient Clinics. Its hospitals include Children's Hospital of Michigan, Detroit Receiving Hospital, Harper University Hospital, Huron Valley-Sinai Hospital, Hutzel Women's Hospital and the Rehabilitation Institute of Michigan, and Sinai-Grace Hospital. The system has 2,700 licensed beds and 3,000 affiliated physicians, and serves as a primary teaching and clinical research site. The Detroit Medical Center includes over 65 accredited residencies and fellowships.
- *Henry Ford Health System* Over one hundred Wayne State University medical students receive training in the four-hospital Henry Ford Health System annually, primarily at

the 877- bed Henry Ford Hospital near the university campus in Detroit. The system sponsors 66 residency programs across a broad spectrum of disciplines at its four teaching hospitals, training 911 residents and fellows. Henry Ford Medical Group, a 1,300-physician group, directly employs medical staff and serves the six-hospital, 28-clinic Henry Ford network. Wayne State University and the Henry Ford research teams have a number of joint research initiatives and are co-located in the Integrative Biosciences Center (see below)

- *Karmanos Cancer Institute* is the largest cancer research and provider network in Michigan and cares for over 12,000 new patients annually with ~1,000 staff including nearly 300 faculty members. The Karmanos Cancer Center is designated by the National Cancer Institute as Comprehensive Cancer Center and has over 800 cancer-specific scientific investigation programs and offers one of the largest clinical trials program in the nation, giving patients access to more than 250 promising new treatments not found at other hospitals or health organizations.

- *Perinatology Research Branch* - Wayne State faculty work closely with the Eunice Kennedy Shriver National Institute of Child Health and Human Development's Perinatology Research Branch, which is dedicated to reducing pre-term delivery and infant mortality. The branch specializes in research to develop novel, diagnostic, therapeutic and preventive strategies to reduce adverse pregnancy outcomes, infant mortality and disability, and trains health care professionals working to improve the health of mothers and their children.
- *Integrative Biosciences Initiative* - Wayne State University launched a broad Integrative Biosciences Initiative dedicated to research, discovery, education, training and knowledge application across a range of biomedical challenges. This initiative leverages the 200,000-square-foot Integrative Biosciences Center (IBio), which houses coordinated multidisciplinary research teams and programmatic initiatives involving translational thrusts focused on pathophysiologies and accumulated stressors affecting health in evolving urban environments.

IBio serves as a home base for an Initiative in Translational Sciences and Urban Health as part of a broad institutional thrust in this area and in partnership with the City of Detroit and local health care provider networks. Programmatic development focuses on six primary areas: brain and behavioral health; bio and systems engineering; interface of genes, ethnicity, environment and health; heart and vascular health; metabolic diseases

(diabetes and obesity); and health disparities. Each thematic focus includes basic discovery-driven research as well as translational, community and implementation sciences cutting across departments, programs, centers and colleges. IBio includes a Clinical Research Service Center as well as the Center for Urban Responses to Environmental Stressors and established research teams from multiple colleges, schools and disciplines.

- *University Research Corridor* - Michigan's University Research Corridor (URC), an alliance of Wayne State University, the University of Michigan and Michigan State University, is one of the nation's top academic research clusters and the leading engine for innovation in Michigan and the Great Lakes region. The URC is focused on increasing economic prosperity and connecting Michigan to the world. Among the top eight U.S. academic research clusters against which the URC benchmarks itself each year, the URC ranked third in the Innovation Power Ranking, an index of research and development, talent, and technology transfer metrics. Each year, the URC has outperformed university innovation clusters in well-known regions such as North Carolina's Research Triangle, California's Silicon Valley and Massachusetts' Route 128 Corridor. The alliance makes Michigan attractive to business and talent by training the next generation of highly skilled, in-demand workers; finding solutions through innovative research; and fostering an array of international business and academic partnerships.

Additional areas of excellence

Health equity and disparities: From prenatal to end-of-life care, Wayne State is a national leader in health disparities research, training and advocacy, with a mission to achieve health equity across diverse populations. Examples of activities in this area include the following.

- Wayne State University/Karmanos Cancer Institute directs a major grant – *“The Detroit Research on Cancer Survivors (ROCS) study”* – from the National Cancer Institute focused on African-American cancer survivors in the United States.
- WSU partnered with the City of Detroit to establish the 2016 *“Mayor’s Summit on Health Equity in Detroit”* to examine the interrelated systems contributing to health disparities in Detroit and to develop roadmaps moving forward to achieve health equity in the City. This led to the most recent summit in 2018 *“Collaborating to Enhance Health Equity in Detroit.”*
- WSU has a number of programs to support undergraduate and graduate research training for underrepresented minorities including the following.
 - o WSU and the University of Detroit Mercy are the recipients of the National Institutes of Health funding initiative *“Research Enhancement for Building Infrastructure Leading to Diversity (REBUILD Detroit)”*.
 - o *Initiative for Maximizing Student Development* – First awarded to Wayne State University from the National Institutes of Health in 1985, this program has supported over 600 undergraduate students and 200 graduate students.
 - o *Wayne Med-Direct (B.S./B.A. to M.D. program)* - Wayne Med-Direct (Wayne M.D.)

is a special program that guarantees admission to Wayne State University School of Medicine and Irvin D. Reid Honors College for 10 students each year. Wayne M.D. emphasizes mentoring and research by giving participants the opportunity to become part of the School of Medicine community during their undergraduate studies, leading to a M.D. or a combined M.D./Ph.D. degree. Admission to the program is highly competitive. Consistent with our broader mission as an urban-serving university, one of the key selection criteria for admission to the program focuses on socio-economically disadvantaged students interested in pursuing health disparities work.

- *Innovation and entrepreneurship:* Recently named one of the nation’s most innovative cities, Detroit is reclaiming its reputation as a powerhouse of technological and entrepreneurial ingenuity — and Wayne State University is at the heart of it all. For more than 150 years, Wayne State has served as a place of innovation, opportunity and support for students, faculty, alumni, community members and partners looking to turn their ideas into reality and improve quality of life. Today, Wayne State University students and faculty have direct access to nearly 60 accelerators, incubators and training programs; valuable resources such as the James and Patricia Anderson Engineering Ventures Institute, the Patent Procurement Clinic, and the Technology Commercialization Office.
- *Arts and culture:* Wayne State’s main campus in Midtown offers students unparalleled access to engage with and contribute to world-class cultural resources, including the Detroit Institute of Arts, the Detroit Public Library and the Charles H. Wright Museum of African American History. Students have

the opportunity to enrich the community through such initiatives as Wayne State's mobile arts workshop, JazzWeek@Wayne and the Performance/Exchange artist-in-residence program as they inspire the city and become leaders in art, music, dance, theatre and communication.

- *Environment:* From water and urban farming to sustainability, green technologies and much more, Wayne State's urban location provides students and faculty with endless opportunities to make a substantial difference in Detroit and beyond through multidisciplinary pathways in the arts, sciences, engineering, law, medicine, pharmacy and business.

- *Engineering and manufacturing:* Detroit is the birthplace of the auto industry, and the region remains a global leader in manufacturing and automotive production thanks to the Big Three and the more than 10,000 manufacturing facilities located in Southeast Michigan. Wayne State's position as a major urban research university drives innovation in these areas. Through an array of programmatic pathways, interdisciplinary research experiences and industry partnerships, students and faculty have direct access to employers and are at the forefront of everything from automotive safety and autonomous vehicles to sustainable manufacturing, global supply chain management and advanced materials manufacturing.



Wayne State University is home to the following clinics, centers and organizations.

- *The Robert R. Frank Student-Run Free Clinic*, the first student-run free clinic in Michigan.
- *The Center for Urban Studies* and its Health Research and Evaluation Program, which engages in interdisciplinary, community-based research benefitting the physical and mental health of Detroit's neighborhoods.
- *The Merrill Palmer Skillman Institute for Child and Family Development*, working to improve development, health and well-being across the lifespan through research and outreach.
- *The Institute of Gerontology*, dedicated to social and behavioral research and aging issues.
- *The Horizons Project*, which provides services to HIV-positive and at-risk youth ages 13 to 24.
- *The Michigan Area Health Education Center* program, which promotes the health and well-being of people in underserved rural and urban areas by improving access to quality care, particularly primary and preventive care, by improving the supply and distribution of health care professionals through community and educational partnerships.
- A comprehensive multiple sclerosis center providing patient care and clinical research to more than 3,000 patients in Michigan, Ohio, Illinois and Indiana.
- *The Flint Area Community Health and Environment Partnership*, established by Wayne State University to examine the link between changes in Flint's water system and public health.
- *The Legal Advocacy for People with Cancer Clinic*, a collaboration of Wayne State University and the Barbara Ann Karmanos Cancer Institute that offers legal training to assist low-income cancer patients



Clinical education partners

Detroit Medical Center

Children's Hospital of Michigan and the Wayne State Department of Pediatrics specialize in medical research and treatment of infants and children — in particular, pediatric hematology, oncology, cardiac surgery and the treatment of renal disease.

Detroit Receiving Hospital specializes in the treatment of adult emergency and trauma cases, and includes special facilities for the care of emergency psychiatry, burn and spinal injuries. The University Health Center, connected to the hospital, is one of the country's largest multidisciplinary outpatient facilities, with 12 primary care service groups and more than 25 medical specialty services for ambulatory care. Detroit Receiving Hospital, Michigan's first Level I Trauma Center including the oldest and largest verified burn center in the state.

Sinai-Grace Hospital is a 402 bed acute care community hospital offering a wide range of inpatient and outpatient services.

Harper University Hospital is a 346 bed acute care hospital specializing in oncology, cardiology, general surgery, and a number of additional surgical specialties and sub-specialties.

Huron Valley-Sinai Hospital is a 128 bed acute care community hospital located in a northern suburb of Detroit providing inpatient and outpatient services.

Hutzel Women's Hospital provides comprehensive women's health services including maternal fetal medicine, an advanced obstetrics and birthing center, neonatology and perinatology services in partnership with the Children's Hospital of Michigan as well as minimally invasive gynecology.

Rehabilitation Institute of Michigan is a 97 bed inpatient hospital and provides outpatient therapy at over 30 locations throughout the metro Detroit area.

Kresge Eye Institute

The Kresge Eye Institute is a major center at Wayne State University for ophthalmology training, education and research as well as the for the treatment of eye diseases.

Barbara Ann Karmanos Cancer Institute

The Karmanos Cancer Institute provides comprehensive cancer prevention, screening, diagnostics, treatment and supportive care to more than 10,000 new patients annually, and is a National Institutes of Health National Cancer Institute Comprehensive Cancer Center at Wayne State University.

Gershenson Radiation Oncology Center

This center provides technologically advanced radiation oncology services for all facilities at the Detroit Medical Center including neutron therapy, Gamma Knife procedures and total body irradiation.

Henry Ford Hospital

Henry Ford Hospital is an 877-bed tertiary care hospital, education and research complex located in Detroit's New Center area. The hospital, listed in "Best Hospitals in America", is a multi-organ transplantation center and Level 1 trauma center. Its doctors are routinely named among America's best. The Henry Ford Health System received the 2011 Malcolm Baldrige Award, the nation's highest honor for innovation and performance excellence in health care.

Beaumont Hospital – Dearborn

Beaumont's Dearborn campus has 632 beds and is a full-service teaching hospital in partnership with Wayne State University that has served Southeast Michigan for more than 50 years. A tertiary hub for three community hospitals, it provides high-level clinical care in a setting designed around the individuality of each patient. Beaumont offers state-of-the art emergency medicine, general medicine and outpatient surgery, diagnostic imaging, labor and delivery/ neonatal intensive care, pediatrics, intensive care, and coronary units.

The John D. Dingell VA Medical Center

The John D. Dingell VA Medical Center is a 108-bed full-service medical center that provides primary, secondary and tertiary care. The medical center provides acute medical, surgical, psychiatric, neurological and dermatological inpatient care. Primary care, medical and surgical specialties are also provided, as are mental health clinics that provide substance-abuse treatment, a day-treatment center and a community-based psychiatric program with the goal of maintaining patients in their home community. The medical center also operates a 109-bed nursing home care unit and a Health Care for Homeless Veterans program.

Ascension Michigan

Ascension is composed of seven hospitals and more than 125 medical facilities in Southeast Michigan offering heart, cancer, obstetrics, neurosciences, orthopedics, physical rehabilitation, behavioral medicine, surgery, emergency and urgent care.

St. Joseph Mercy Oakland

St. Joseph is a 443-bed comprehensive community teaching hospital and member of the St. Joseph Mercy Health System. Long recognized as a leader in cardiology, critical care, women's health and orthopedics, St. Joseph Mercy Oakland has been serving and improving the health and well-being of the community for more than 85 years.

Physician service groups

Wayne State University Physician Group (WSUPG) is the School of Medicine's largest designated clinical service group and faculty practice group. WSUPG physicians provide world-class care throughout Southeast Michigan together with the university's affiliated partners, including the Detroit Medical Center, the Barbara Ann Karmanos Cancer Institute, the John D. Dingell VA Medical Center, St. Joseph Mercy Oakland, Beaumont Health and Ascension Michigan.

An additional designated clinical service group supports the School of Medicine at the Detroit Medical Center in the Department of Emergency Medicine. University Pediatrics was also engaged as a designated clinical service group that supported the School of Medicine and the School of Medicine recently launched a new Wayne Pediatrics clinical service group.