

Health  
Education

EYP/®

EYP is the leading architecture and engineering firm developing new ideas and design solutions with mission-driven clients in higher education, government, healthcare, and science & technology.

Our clients are in the business of changing lives for the better: promoting peace and prosperity; educating the next generation; transforming the healthcare experience; driving discovery and innovation; and protecting the environment. They expect their buildings to have as profound an impact on human behavior and performance as they do on energy and the environment – that’s why they come to EYP.

We believe the built environment empowers our clients to succeed – as individuals and organizations – and that their success should be a key measure of building performance. Our interdisciplinary Total Impact Design™ approach helps clients achieve their mission.

We begin by understanding the “whys” driving every client’s vision, needs, and goals. We encourage our clients to be ambitious – to imagine a future where expectations are achieved and even surpassed. The design we co-create is realized through creative collaboration and an iterative process tested and informed by rigorous research. Long after project completion, we continue to partner with clients to measure and analyze how a building contributes to the ongoing success of their mission.

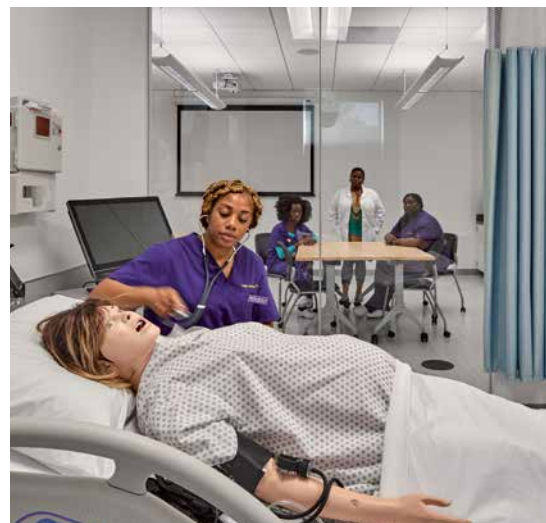
EYP design innovation is characterized by our dedication to:

**People** – *liberating potential to transform human performance*

**Purpose** – *actively helping clients advance their mission*

**Planet** – *maximizing available resources to advance sustainability*

Inspired by our clients, design is how we make a positive impact on the world.



# HEALTH EDUCATION

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We are committed to helping our nation address some of today's most critical issues – education, healthcare, and energy. Working with clients whose mission embodies the intersection of these issues is our passion and privilege. Our integrated AEEI team is helping advance integrated, systems- and team-based education for medical, nursing, dentistry and allied health professionals through client-centered, high-performance design.

Our evidence-based approach yields flexible, immersive, and active spaces that support diverse learning styles, promote synergies for collaboration, and help ease students' transition to clinical work. From technology-infused environments for medical simulation, to smart classrooms and labs, and to gracious soft spaces, our goal is a unified spatial experience that fosters learning in community. This is how we define high-performance design – beautiful facilities that express institutional vision and identity, promote occupant health and well-being, encourage inter-professional community, and maximize energy performance for fiscal sustainability.

## Contact

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East Carolina University  
School of Dental Medicine Greenville, NC  
Ledyard Ross Hall



A new on-campus instructional facility and its associated rural satellite clinics are advancing ECU's innovative model of service-oriented dental care, in which fourth-year students work off campus to provide dental services to underserved citizens under the guidance of experienced faculty.

Ross Hall is designed to support the latest trends in dental medicine and clinical training. The facility includes 133 dental operatories, five specialty clinics, smart classrooms, teleconference rooms, and state-of-the-art simulation labs, as well as administrative/support spaces. In particular, the Preclinical Technique and Clinical Simulation Labs promote hands-on training and collaboration. The satellite Service Learning Centers are designed to enhance the patient experience, enabling students to easily transition into the clinical environment.

The EYP-led design team, including consulting architects Bohlin Cywinski Jackson, worked with a wide variety of stakeholders, including faculty from dental schools nationwide. Two of the satellite clinics are open (Ahoskie and Elizabeth City), four are under construction, and several more are in the planning stages.

- 185,000 GSF new construction (Ross Hall)
- 7,700 GSF new construction (Service Learning Centers)
- Programming & Planning, Architecture





WEDYARD E. ROSS HALL

New York University New York, NY

College of Nursing, Dentistry & Bioengineering Institute





To attract and better serve the very best students, 433 First Avenue is designed to provide a gracious, unified spatial experience appropriate to those who will lead the future of healthcare. The signature facility collocates programs in nursing, dentistry, and bioengineering to cultivate a unique model for educating healthcare professionals in environments that foster synergies for collaboration, research, teaching, and community service.

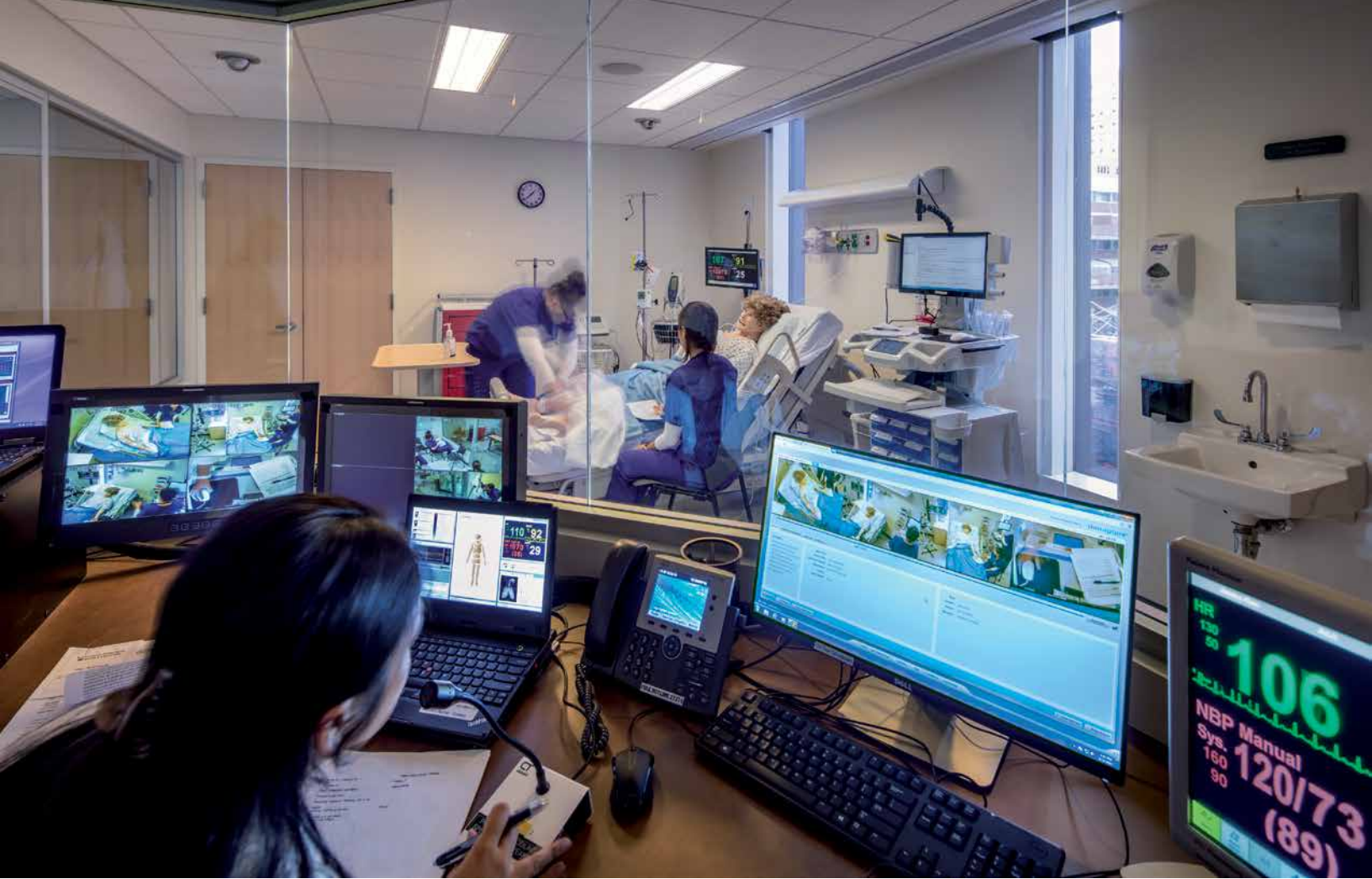
The LEED Silver-designed facility is conceived as an innovative vessel for human-focused technology. The latest systems and equipment – from LED lighting to controllability of HVAC systems – enhance occupant experience and improve building energy performance. Technology-infused teaching spaces are designed to ease the transition from education to clinical environment. Medical simulation training improves patient safety by enabling future health care professionals to “practice on plastic,” presenting students with increased opportunities to refine skills and advanced techniques.

NYU’s world-class brand is pervasively expressed through attractive finishes, comfortable furnishings, and one-stop shops for student services that recognize their constituencies are discerning customers as well as active learners. Strategic glazing showcases the activities within and opens expansive views of the city’s million-dollar views – a design solution that enhances the facility’s spacious feel despite the space constraints of its tight urban site.

KPF was collaborating architect on this project.

- 170,000 GSF new construction
- Programming & Planning, Architecture, Laboratory Planning





Trinity Washington University Washington, DC  
Payden Academic Center



The interdisciplinary Payden Academic Center supports the University's undergraduate, graduate, and continuing education programs in Nursing and Health Sciences. The program includes teaching and research labs, technologically sophisticated classrooms and lecture halls, faculty offices, information technologies support, and a range of informal learning spaces. The design incorporates many architectural attributes of the historic campus – including the arched windows and hipped red-tiled roofs characteristic of classicism and the engaged pilasters and decorative entablatures characteristic of the Victorian style – with pre-cast concrete panels to create a decidedly 21<sup>st</sup>-century structure.

The building is sited and organized to make it easy for both resident and commuter students to arrive, learn, study, and socialize between classes or between work and class. Flexible classrooms and laboratories, and the placement of informal learning spaces and faculty offices, promote discovery-based learning and interprofessional collaboration. The lab zone is conceived as a cluster of 40' x 80' to easily accommodate labs and their support spaces; the latter are located outside of the modular classroom zone to maximize flexibility over time. EYP's planning and conceptual design services were instrumental in obtaining funding for the project.

- 80,000 GSF new construction
- LEED Silver Certified
- 12 biology and chemistry labs
- Simulation & clinical suites
- 23 classrooms and seminar rooms





# University of Texas Health Science Center at Houston Houston, TX

## Medical School Expansion

The Medical School Expansion (MSE) building is a six-story, 200,300 SF facility connected to the original medical school building. MSE is designed to support four major research areas: molecular biology of human pathology, neurobiology of human development, structural biology and functional genomics, and consists of lab floors and a new home for the Center for Laboratory Animal Medicine and Care (vivarium) that was destroyed by Tropical Storm Allison.

Each lab floor is designed to be flexible and adaptable and should accommodate 12 private investigators (PI) per floor (lab floors are each 18,700 SF of assignable generic lab space per floor with 1,500 NSF/PI lab support space). A conference room, meeting room, and a break room are provided on each lab floor.

The two-story, 42,000 GSF vivarium includes small animal holding spaces for care of rodents and transgenic mice; large animal holding for care of nonhuman primates, dogs, and rabbits; as well as an animal surgery suite, barrier suites, a cage wash, shared support spaces, and administrative offices.

Lake Flato was the Exterior Design Architect

- 200,300 SF new construction
- Programming, Architectural Design
- Open, flexible labs
- Vivarium for large and small animals



University of Texas Health Science  
Center at Houston Houston, TX  
School of Dentistry

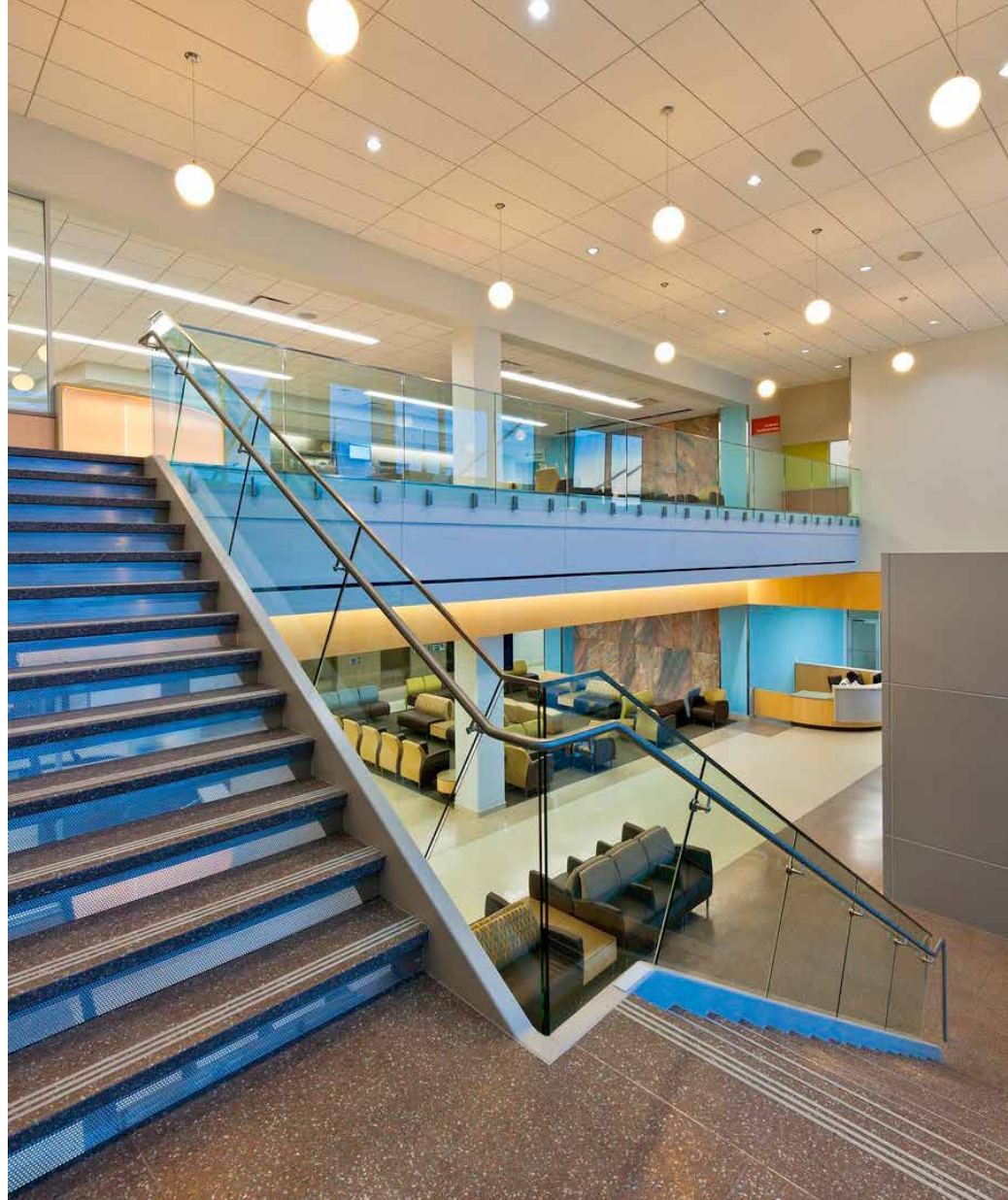


The School of Dentistry is a new, six-story dental education and clinical facility complete with dental clinics, simulation and pre-clinical labs, clinical support labs, a clinical research lab, classrooms, a learning resource center, a student center, and administrative space.

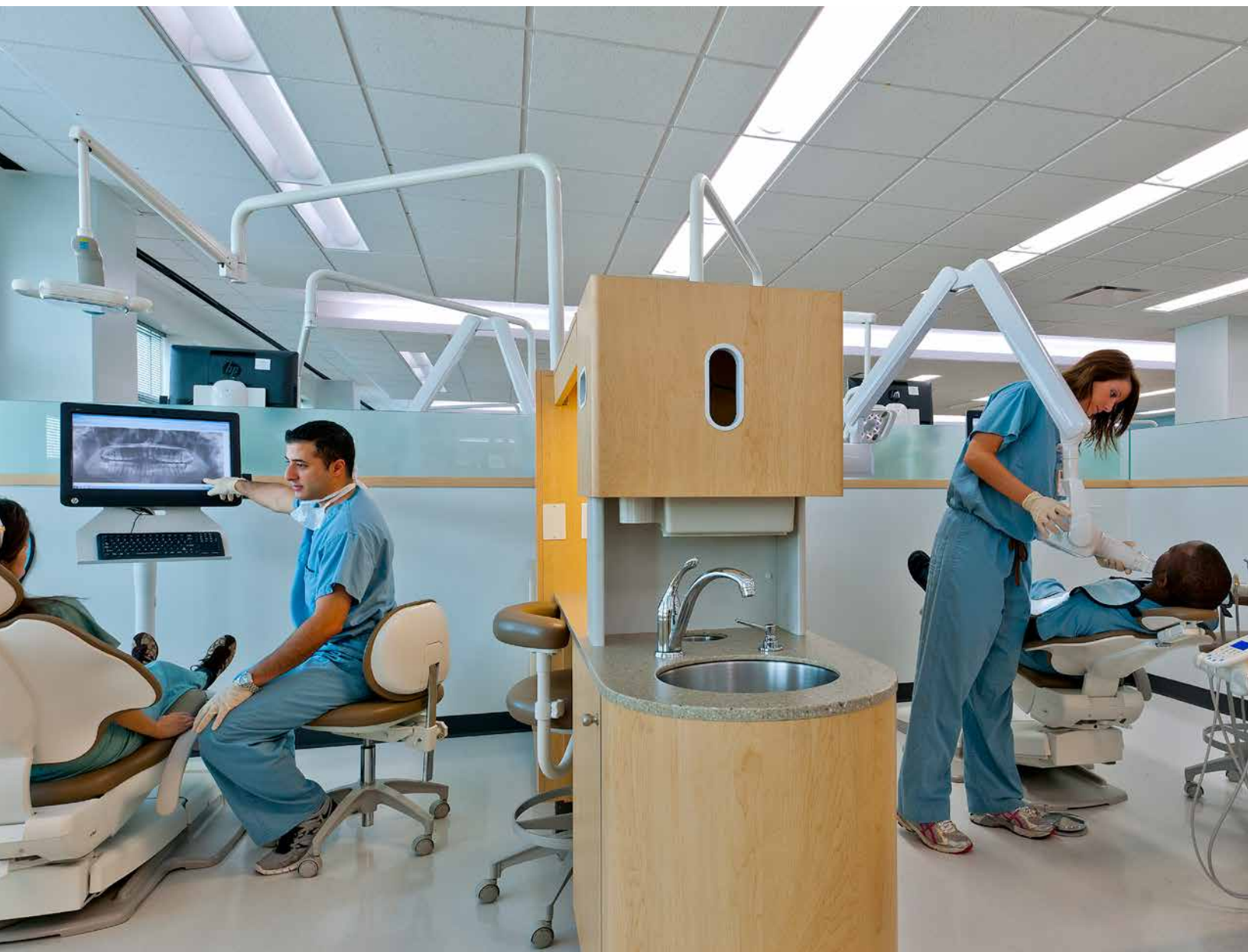
The school houses some of the industry's most advanced equipment and education technology, allowing for the highest quality in patient care, research, and education, assisting the University in reaching its goal of graduating the most well-trained dental professionals in the world.

The facility enabled UTHealth to expand its program by 20 percent to accommodate 100 Dental Medicine students and 50 Dental Hygiene students per cohort.

- 296,500 SF new construction
- Programming, Planning, Architectural Design, Furniture Planning, Graphics, and Wayfinding
- Three distinct zones: public (patient care), education and simulation, and faculty and staff
- Diagnostic center
- Imaging suite
- Special patient clinic
- Fourth-year/dental hygiene clinic
- Specialty clinics for oral and maxillofacial surgery, orthodontics, pediatric dentistry, endodontics, prosthodontics, and periodontics
- Faculty practice clinic
- 285 operatories
- Clinical labs
- Simulation lab
- Pre-clinical lab
- Central sterile
- Tiered and flexible flat-floor classrooms
- Student Lounge
- Learning Resource Center
- Departmental and administrative offices
- Biomaterials lab
- Diagnostics lab







# Eastern Virginia Medical School Norfolk, VA

## Education and Academic Administration Building

Eastern Virginia Medical School (EVMS) in Norfolk, VA selected EYP to design a new education and academic administration facility. EVMS is a public-private medical school founded by grassroots efforts in the southeastern part of Virginia. Unlike most other public medical schools in Virginia, EVMS is not affiliated with an undergraduate institution and coordinates all training through multiple medical centers in the region. The school is dedicated solely to graduate biomedical and health education.

The new facility will house the Medical Masters programs and their staff, as well as consolidating numerous academic support departments currently dispersed in multiple buildings both on and off campus. The proposed facility is a multistory 144,000 SF new construction and 350 space parking garage. EVMS envisions an Education and Academic Administration Building that embodies and strengthens its well-defined purpose as a provider of excellent education, designed and built to support education the best way known; a cohesive and attractive design that unifies the campus and builds upon the standards set throughout the rest of EVMS, and fosters a team-based learning environment that promotes both inter- and intra-professional collaboration.

- 144,000 SF new construction
- 350-space parking garage



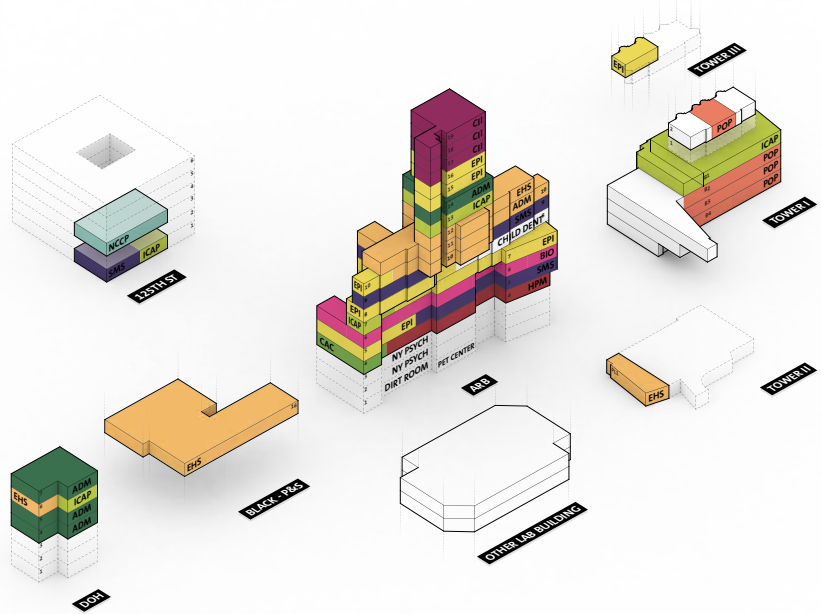
# Columbia University New York, NY

## Mailman School of Public Health (MSPH) Strategic Space Plan

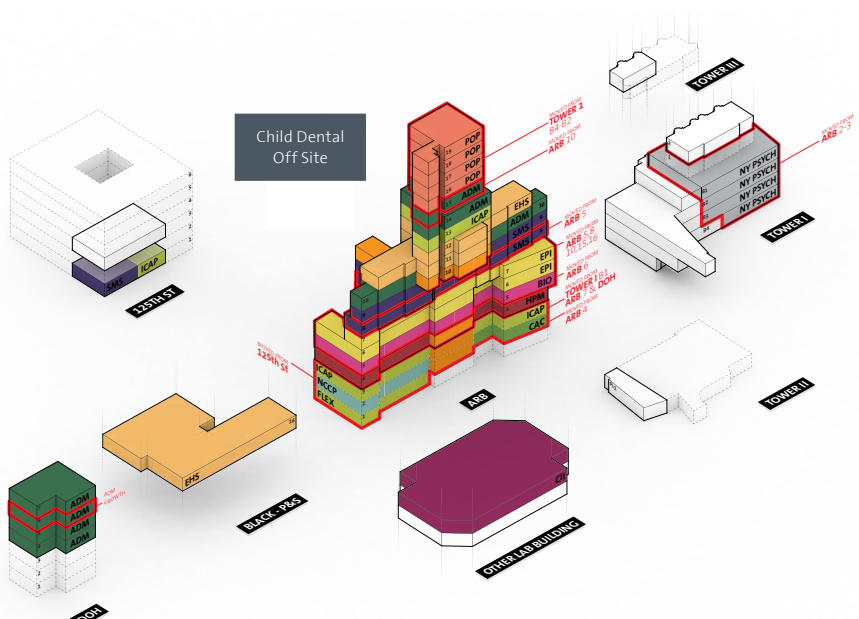
Nationally ranked among the top five schools of public health, Mailman is a vibrant rising institution where the disciplines of biostatistics, environmental health sciences, epidemiology, health policy and management, population and family health, and sociomedical sciences converge. Currently housed in eight buildings on the Columbia University Medical Campus as well as three off-site facilities, MSPH lacks the space to serve its increasing student population. The Strategic Space Plan establishes guidelines for the highest and best use of existing space on the tight urban campus, as well as for future growth.

Our experience partnering with urban medical academic centers provided valuable insight into the mindset and culture of the many constituencies to be engaged. We collaborated with multiple departments and stakeholders to craft a plan that will guide the growth and consolidation of facilities while creating a sense of place for students and faculty. The team mapped, analyzed, and iteratively planned existing space drawing on EYP's expertise in workplace strategy to maximize space efficiencies; improve administrative and academic departments' work flow; promote greater student interaction; and assess future space solutions within existing buildings. Individual strategies include right-sizing faculty office space and establishing new teaming and work tactics, potentially enabling MSPH to reduce its reliance on leased space.

- 170,000 GSF
- 11 Buildings
- Workplace Strategy



Existing



Option 3

University of Pittsburgh Pittsburgh, PA  
School of Nursing, Victoria Hall Master Plan



Pitt's School of Nursing nationally ranks fifth in *US News & World Report's* best graduate schools, and sixth in research funding from the National Institutes of Health. In 2016, The School of Nursing brought EYP in to create a master plan for modernizing its Victoria Hall to meet current and emerging trends in nursing education, ensuring Pitt maintains its leading position among its peers.

The school needed to create diverse programs customized to the individual student's career goals, as well as expand programs that better prepare students to face the changing healthcare arena. To address these goals, EYP planned for new Skills Labs that include immersive simulation rooms to support programs as diverse as Telehealth and Midwifery, wet bench BSL-2 research laboratories, clinical research areas, and student study spaces throughout the building for formal and informal groupings. We helped the school identify opportunities to upgrade and improve infrastructure for system capacity and reliability, as well as improvements to the vertical transportation system for better student circulation.

The master plan accomplished a full evaluation of the four-story 125,000 SF, 50-year-old building to understand current utilization and identify ways the space could be better used. Following in-depth discussions on pedagogical and academic goals, we worked with Pitt to develop strategies for using their current space more efficiently, which would reduce the need to expand the building. The master plan offers a roadmap for institutional capital planning and an orderly campaign for phased renovations over a five-year span.





James Madison University Harrisonburg, VA  
Health & Behavioral Studies Building



The new interdisciplinary facility is designed to foster the behaviors essential for success in the increasingly interprofessional healthcare work environment.

Larger departments – Nursing, Health Science (including Occupational Therapy, Athletic Training, and Dietetics), and Communication Sciences and Disorders – share floors and simulation spaces. Smaller departments and program elements – Social Work, Creative Services, and the Dean’s suite – are located by functional adjacency. Specialized teaching laboratories anchor each floor, creating distinct identities for the departments, as well as destinations for other faculty and students.

The building houses three types of simulation learning technology: simulation mannequins, human patient simulation, and virtual patient simulation. In addition to teaching laboratories, classrooms, lecture halls, informal learning spaces, and administrative spaces, the program includes specialized research and clinical spaces to study and treat patients with hearing and communication impairments.

- 150,000 GSF
- LEED Silver design
- 13 research labs
- 17 classrooms
- 19 teaching lab
- Patient simulation lab
- Food production lab
- 2 165-seat lecture halls
- Hearing clinic







Virginia Commonwealth University Richmond, VA  
Allied Health Building



The new Allied Health Building will unite Gerontology, Health Administration, Nurse Anesthesia, Occupational Therapy, Patient Counseling, Physical Therapy, Radiation Sciences, Rehab Counseling, and the Technology Center, as well as the Dean's Office and the Virginia Center on Aging.

Variably sized, flexible classrooms located throughout the building will support strategic adjacencies and ease of sharing. The design enables departments to share teaching amenities and technologies, such as synchronous distance-learning classrooms; audiovisual capture of directed instruction; and observation of patient-care simulation.

The building houses a dedicated Nurse Anesthesia simulation suite, as well as one shared by all of the allied health disciplines working individually or in teams across specialties. Simulated hospital environments will be provided for operating rooms, acute care patient rooms, recovery rooms, and a range of imaging spaces including a high-tech virtual linear accelerator. The therapy departments will share a state-of-the-art Smart Home Apartment for training students.

The program also includes a double-height biomechanics research lab and several maker labs, where students and faculty can research, create, and test their own adaptive aids for therapy.

- 154,000 GSF new construction
- Architecture, Programming & Planning, Laboratory Planning, Fire Protection Engineering, Energy Analysis





University of North Carolina  
School of Medicine Chapel Hill, NC  
Bondurant Hall



The modernization of Bondurant Hall transformed an obsolete 1960s laboratory building into a thriving home for medical education and allied health programs appropriate to UNC's identity as the nation's leading public school of medicine. Two substantial additions double the size of the original building to create a new gateway experience for prospective students and the public.

UNC's design imperative was to foster more interaction and interdisciplinary study between Medical Education and Allied Health student groups – co-workers in their professional lives who have historically been isolated from each other in academia. User recommendations on adjacencies and functional requirements provided vital insights into how best to house the myriad of flexible and program-specific teaching spaces. We partnered with user groups to create best-fit design solutions, utilizing 3D modeling to develop strategies, convey design intent, and identify the full implications of critical decisions.

The building core was purged to create an open, vaulted lobby that seamlessly anchors the old and new classroom wings. This central space visually unites the street entrance to a courtyard with other medical school buildings. Administrative and support spaces for the Existing labs were converted to shared classrooms, fostering more interaction and interdisciplinary study between the two student groups.

- 61,320 GSF modernization
- 58,046 GSF new construction
- Programming & Planning, Architecture
- Bronze Citation, Educational Interior Design Excellence, American School & University





Montgomery College Takoma Park, MD  
Health Sciences Building





The new Health Sciences Building collocates previously dispersed health science programs – nursing, radiology, and surgical technology – with clinical, continuing education, and community outreach programs. The prominently sited facility faces the Silver Spring central business district on one side and a major urban park on the other. Community-oriented functions, including a health clinic operated by Holy Cross Hospital, a job resource center, and public outreach programs, are located on the ground floor for easy access. Facing the park, a monolithic glass and metal curtain wall façade softens the urban edge by reflecting the landscape and sky.



Shared and multiple-use spaces maximize building efficiency, while flexible building systems ensures spaces that can easily accommodate future changes in technology. Specialized learning environments with state-of-the-art medical equipment simulate hospital, occupational, and physical therapy environments.



The building's orientation, materials and mechanical systems were designed to optimize passive heating and cooling opportunities to help reduce artificial lighting and mechanical systems loads. Components and systems were designed to provide maximum operating efficiency. The engineering systems have the capability to connect to a future, district-wide central cooling plant.



- 100,000 GSF new construction
- Programming & Planning, Architecture, MEP Engineering



HEALTH SCIENCES CENTER

MONTGOMERY COLLEGE

West Virginia University Morgantown, WV  
Erma Byrd Biomedical & Neurosciences Research Center



This 5-story research facility has a number of innovative design concepts that were incorporated to enhance operations, building efficiency and accelerate discovery. This project delivery method was a traditional design-bid-build approach. Relevance: Research facility at a teaching institution, classrooms, wet and dry labs, BSL-2, new and renovated vivarium, faculty offices, animal facilities, complex functional requirements, high efficiency expectations.

In the facility, West Virginia University sought an efficient, flexible laboratory environment to encourage collaboration and cross-disciplinary exchange among researchers and students, and a landmark building to attract prestigious investigators and projects. The resulting design manifests that commitment to open exchange through an architectural expression of the interplay, in scientific process, between rationality and creativity.

- 114,000 SF/5-Story
- Project Management, Space & Functional, Program Development, Architecture, Interior Design, Graphic Design, Furniture Selection, Precinct Planning





Tidewater Community College Virginia Beach, VA  
Regional Health Professions Center



The new Regional Health Professions Center collocates all of TCC's health professions programs in a unified interprofessional facility that serves as a new gateway on the Virginia Beach campus. The Center incorporates a wide range of teaching laboratories that simulate real-world medical environments with both Meti and Laerdal simulation mannequins. The activities of daily living, sonography, radiology, and polysomnography teaching laboratories are also used as functioning clinic spaces in support of community health. The sustainable design of the RHPC supports the LEED Platinum aspiration of the Operation Smile project.

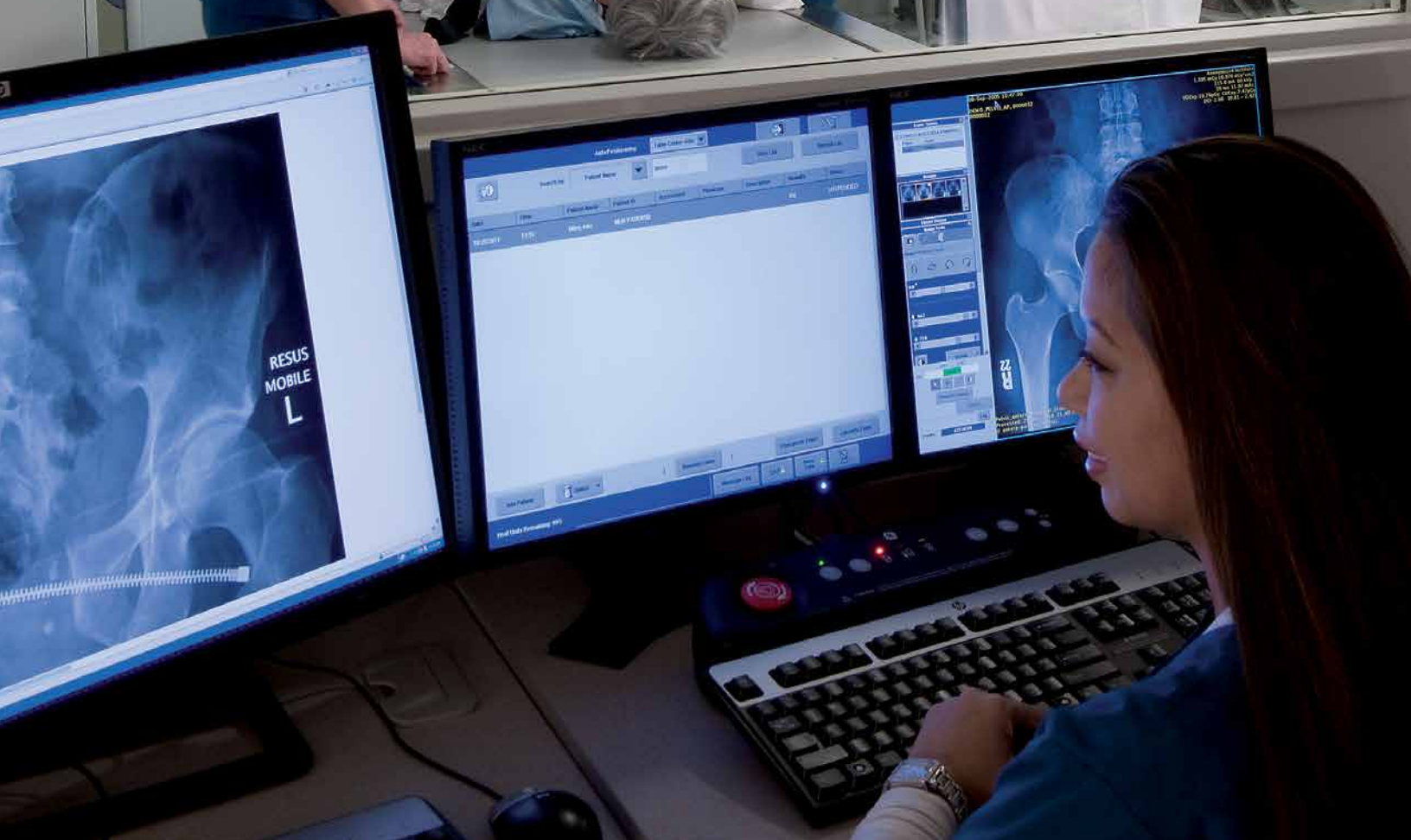


The RHPC houses teaching laboratories, classrooms and offices for the Nursing, Emergency Medical Technician, Occupational and Physical Therapy, Health Information Technology, Sonography, Polysomnography, and Respiratory Therapy programs. Its innovative instructional ambulance bay allows students to extract an untethered simulation mannequin from a car, transfer that mannequin to a simulated ambulance that moves and is equipped with medical gases, and then to a simulated emergency room. Within the Facility, a two-story "house" functions as a teaching lab for both activities of daily living and emergency technician training.



- 65,000 GSF new construction
- Programming & Planning, Architecture, MEP Engineering







University of North Carolina  
School of Medicine Chapel Hill, NC  
Bioinformatics Building



The new home for the Department of Ophthalmology provides dry research and office space for a multidisciplinary group of researchers and will eventually anchor a new quadrangle on the School of Medicine Campus. A 125-seat lecture hall accommodates Grand Rounds in Ophthalmology and other campus events. A welcoming multistory lobby with snack bar accommodates informal gatherings.

The flexible designs of the floor plan and furnishings proved their worth when a temporary increase of 100 occupants had to be accommodated in the middle of construction without adversely impacting the construction schedule. Interior designers worked closely with the owner project manager and the systems manufacturer to make these changes during a 30-day period.

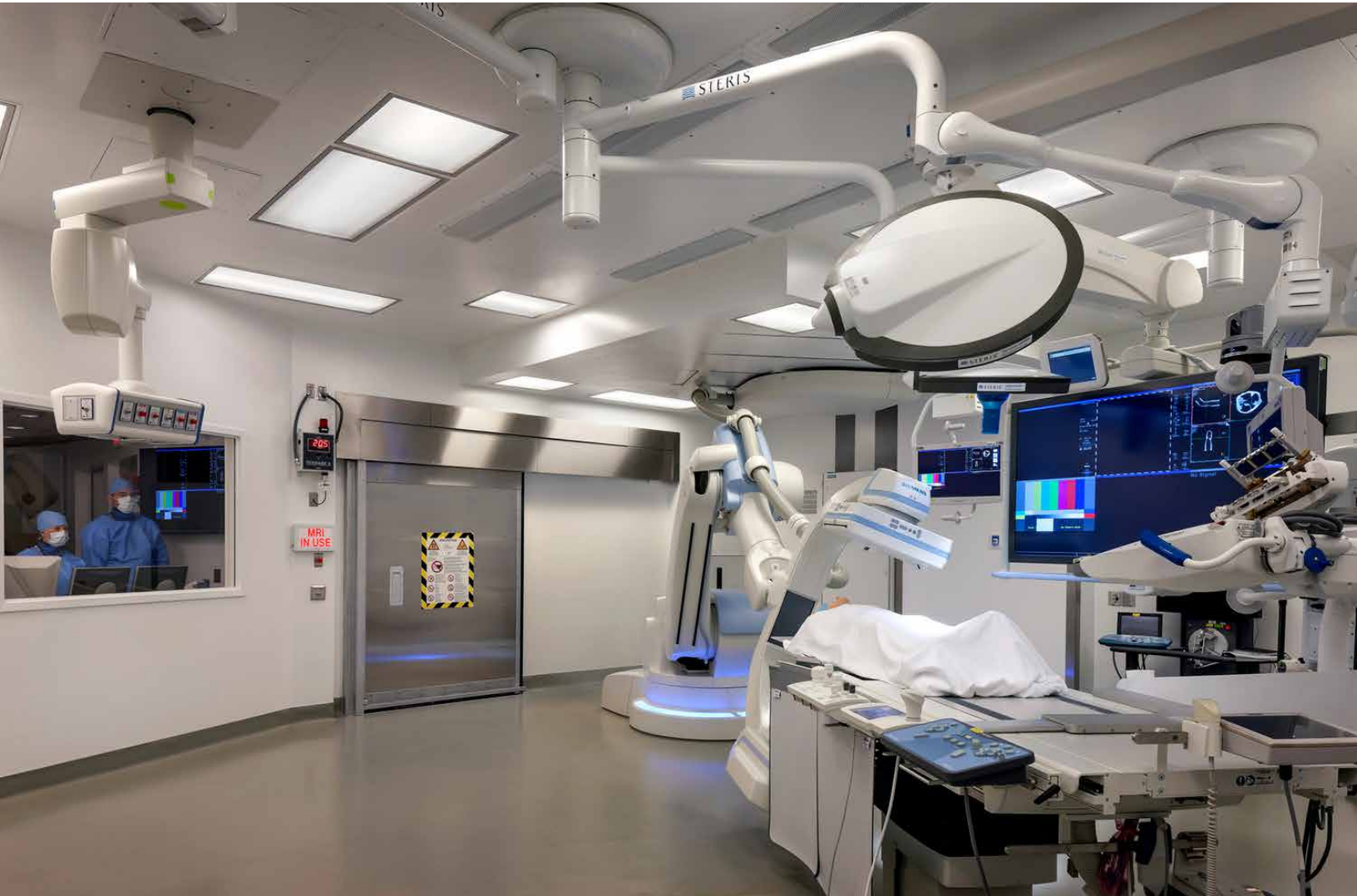
- 152,000 GSF new construction
- Programming & Planning, Architecture, Interior Design





Houston Methodist Houston, TX

Methodist Institute for Technology, Innovation, & Education



Located within Houston Methodist's Research Institute, the Methodist Institute for Technology, Innovation & Education (MITIE) is a center for research and education on surgical procedures across multiple specialties. MITIE provides hands-on, skills acquisition training to physicians in a safe environment and offers research on new technologies.

MITIE creates a synergy between research and training by combining a procedural skills lab, a research core, and a virtual hospital.

The procedural skills lab includes 15 operating stations to teach minimally invasive techniques, using animate and inanimate subjects.

The research core includes a hybrid OR suite and three simulated ORs; of the simulated ORs two are outfitted for robotic surgery training using the DaVinci platform, and the third incorporates a CT scanner. Here, physicians and scientists develop new technology and procedural techniques.

The virtual hospital includes two simulation operating suites in which physicians, nurses, and allied health professionals train on specific clinical scenarios, using full-size human patient simulators.

The virtual hospital also has four partial task training rooms. These allow learners to focus on a narrow component of a procedure, such as how to manage a difficult airway or insert a central line using ultrasound guidance.

CO Architects were the Collaborating Architect

- 35,000 SF new construction within a 440,000 SF facility
- Architecture, Interior Design





# Mercer University Savannah, GA

## Medical Education Building

The Savannah Campus of Mercer University School of Medicine is planning to increase their class sizes by 50% in response to a growing need for primary care physicians in south Georgia. As a result, the University is renovating their existing facility to expand research labs (adding core labs for microscopy, tissue culture and cell sorting), provide for a new medical library and accommodate expanded large and small classroom space that will be outfitted with distance learning technology to interface with the Macon and Atlanta campuses. A new 30,000 square foot expansion will accommodate the simulation center, the standardized patient care center and 16 tutorial rooms equipped for small-group case-based learning. Expanded wet and dry research labs; basic science classrooms; distance learning classrooms; fully equipped medical technology in all didactic teaching settings.

- 32,000 SF Expansion
- 42,000 SF Renovation
- Programming, Conceptual Floor Plan, Interior Design, Furniture Selection, Environmental Graphic Design, Medical Equipment Planning



# Prairie View A&M University Houston, TX

## College of Nursing

Located in the densely urban Texas Medical Center, the College of Nursing is a 120,000 SF, state-of-the-art, educational, research, and clinical facility built atop a 425,000 SF parking garage.

The College is more of a stand-alone campus offering a bookstore, admissions office, lounge, group rooms, fitness room, library, and a large assembly space.

Education spaces include tiered and flat classrooms, distance education classrooms, high-fidelity simulation labs and computer labs. Skills teaching labs have convenient access to classrooms. Student amenities such as the bookstore, promote community and extend learning.

- 545,000 SF building and garage
- Program Verification, Planning, Architecture, Interior Design
- Tiered and flat-floor flexible classrooms
- Student Lounge and Fitness Room
- 7 types of Nurse Training Labs:
  - Standardized patient care lab
  - Adult health lab
  - Women's health lab
  - Pediatric health lab
  - High-fidelity simulation lab
  - CU lab with high-fidelity simulators
  - Community health lab





Stephen F. Austin State University Nacogdoches, TX  
Richard and Lucille DeWitt School of Nursing



The Richard and Lucille DeWitt School of Nursing is a two-building complex providing the school with space for administrative functions and high-tech, hands-on nursing education.

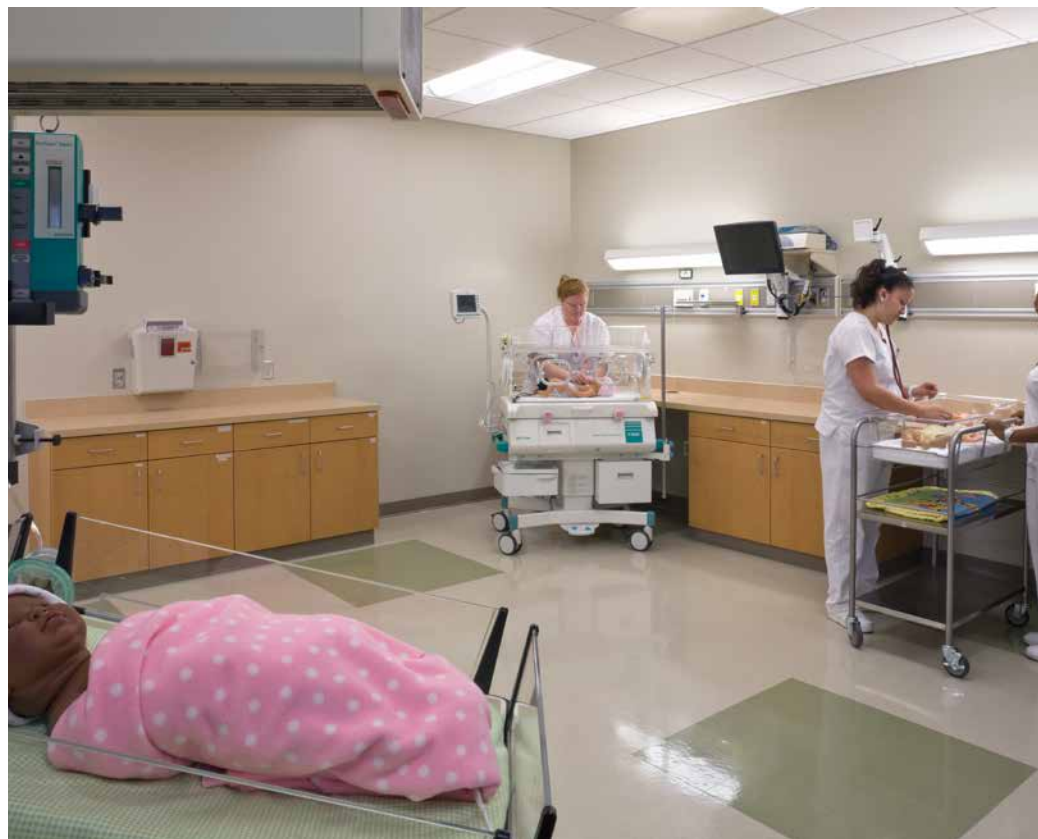
The simulation center has an assessment lab, a skills/emergency room/debriefing lab, and two simulation labs—one critical care/medical surgery laboratory, and one obstetrics/labor and delivery/pediatric nursery lab.

Equipment and systems (medical equipment, nurse call, code blue, audio visual equipment, and simulators) are fully integrated to replicate a nurse's work environment. Labs use wireless patient mannequins which are manipulated by instructors in a remote high-tech control room. A video-monitoring system allows students to be filmed as they treat the "patients," and the video can be streamed live into classrooms or recorded for later review.

The skills labs consist of 14 patient rooms with a total capacity for 21 patient simulators. This facility also includes an ambulance bay and capabilities for emergency room simulations. Additionally, the skills labs include IV stations with capabilities for learning basic skills and assessment. These labs are combined with debriefing facilities for immediate feedback on student performance.

The new school houses three classrooms seating 102 students each and one larger classroom which can also function as two separate, smaller classrooms. Other classrooms provide the platform for distance learning and computer testing.

- 44,268 GSF new construction
- Programming, Architecture, Interior Design, Furniture and Medical Equipment Specifications, Building Graphics Design
- Mock Nursing Unit with high-fidelity simulation
- Assessment Lab
- Ambulance bay and ER simulation
- Flexible classrooms





*It is a tragedy when a common sense and a common tradition  
is being treated with a common sense and a common tradition  
of human beings... will never become obsolete.  
In a world where many tomorrow's strange machines  
require that ever need to be touched to be restored,  
mental, revived, and redeemed...*

*Leah Curran*

# Columbus Technical College Columbus, GA

## Robert L. Wright, Jr. Health Sciences Center

The Robert L. Wright Health Sciences Center is three-story classroom building for the health sciences. Relevance: Multipurpose Conference Space; Administrative; Classroom, Teaching & Computer Labs; Practical Nursing; Imaging; EMT Training; Surgical Tech; Dental Hygiene Lab; Simulation Center, Pharmacy Tech; Faculty/Student Amenities. This project was also a state-funded initiative.

- 90,000 GSF/3-Story
- New Construction
- Project Management, Space & Functional Program Development, Architecture, Interior Design, Graphic Design, Precinct Planning, Master Planning



University of St. Thomas Houston, TX  
Center for Science & Health Professions



The Center for Science and Health Professions is the first step in realizing the master plan of creating a science quadrangle at the University of St. Thomas (UST). The 180,000 SF building includes the Nursing, Biology, Chemistry, Environmental, and Mathematics Departments.

Built around a master plan created by Philip Johnson, the academic departments at UST are organized in two-story, modernist buildings around a shaded courtyard. Introducing a new building demanded a high level of sensitivity to the existing campus. However, the building's location at the southern boundary presented the opportunity to create a new gateway to the university.

In response, the design presents five interconnected pavilions around a courtyard, which reduces the large scale of the building. The five small pavilions, echoing the scale, form, and character of the existing campus and neighborhood context, are organized around a central courtyard at the width of the Academic Mall. Developing an outdoor plaza facing the Library and the southern terminus of Johnson's academic quadrangle strengthens connections to the existing campus.

- 180,000 SF
- Programming, Architecture, Laboratory Planning





# University of Texas Medical Branch Galveston, TX

## New Health Education Center

The Health Education Center (HEC) at the University of Texas Medical Branch at Galveston (UTMB), scheduled for completion in 2018, will consist of 160,000 GSF of resilient and advanced technology education space.

The HEC will promote inter-professional education in all UTMB schools, which include nursing, health professions and medicine, along with professional education for residents, nurses, physicians and staff.

The facility will be the home of a new centralized Simulation Center for the UTMB campus. It will feature flexible and specialized labs, including an OR/ICU Suite, a Standardized Patient Suite and flexible simulation labs for the UTMB health education community.

The large learning labs will accommodate a range of simulation technology and will be specifically sized to bring interdisciplinary teams together. The labs will also be designed to integrate simulation spaces and debrief spaces to create an immersive experience for students.

The Health Education Center will also include large flat-floor classrooms to enable “flipped classroom” pedagogy, study spaces, educational offices and administrative space. All of this will help UTMB manage the growth of its health education programs and increase in exposure to hands-on simulation.

- 160,000 GSF new construction





The Jackson Laboratory Bar Harbor, ME  
Research Expansion Program



We helped the client identify immediate and 10-year growth needs and implemented the initial projects of the four-phase Master Plan, expanding research and animal facility spaces and designing mechanical systems to support future wings as they come on line.

The East Research Building adds 66,000 SF of flexible space for eight research groups. A spine of offices with informal meeting spaces and conference rooms connects to existing and future research spaces to foster a collegial environment. The Bioinformatics Commons is a 6,000 SF, multipurpose gathering space housing dedicated and shared computers.

The expansion of the Functional Genomics Building provides 41,000 SF of new and 4,500 SF of renovated space that increases housing capacity and separates the clean and dirty process flows of the existing Research Animal Facility. Increased space for Microscopy, Necropsy, and Histology have also been integrated to work with the clean and dirty circulation patterns of the animal facility and to accommodate expanding research support needs.

The 57,000 sf Genetic Resources Building is a transgenic mouse facility that expands the Jackson Lab's capacity to acquire, develop, and distribute important new models of human disease.

- 164,000 GSF new construction
- 4,500 GSF renovation
- Programming, Architectural Design, MEP Engineering
- Vivaria
- Containment barrier
- Transgenics facility
- Wet lab





EXIT



University at Albany East Campus  
Biotechnology Park East Greenbush, NY  
Gen\*NYS\*is Center for Excellence in Cancer Genomics



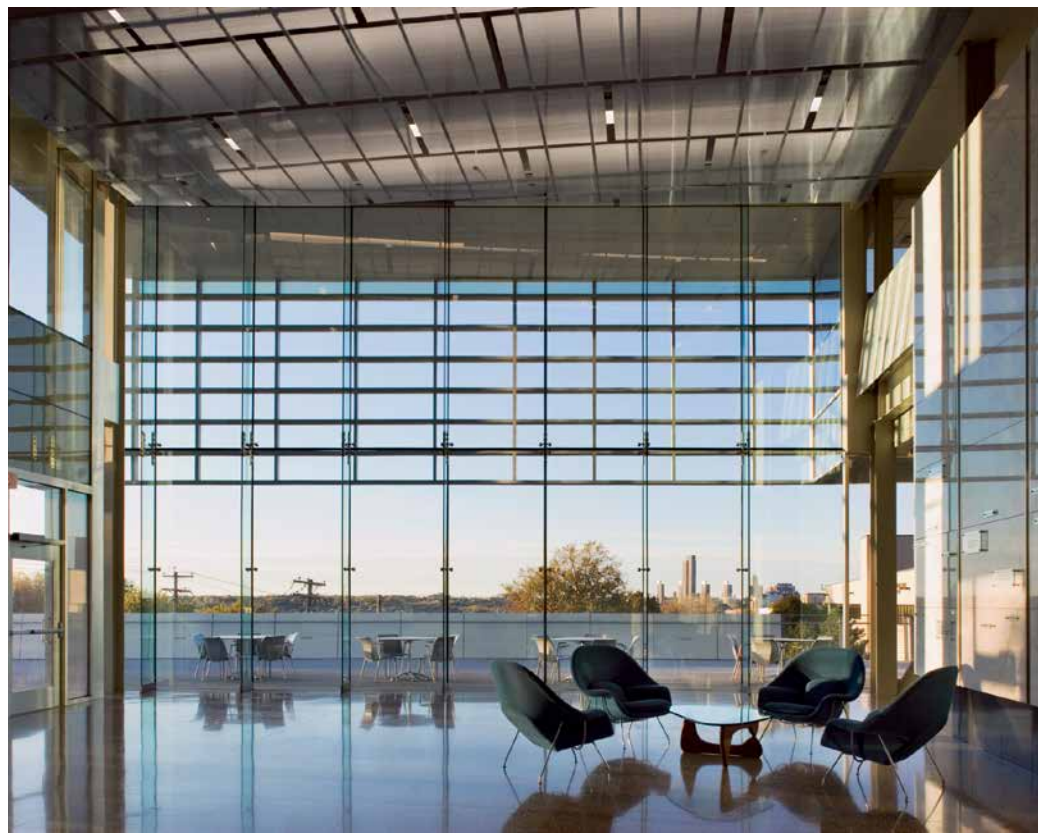
The Ge\*NY\*Sis Center is designed for revenue-generating multiple tenancy and to support a range of occupancies including biomedical research, instrumentation support labs, a core facility that includes a high-sensitivity mass spectrometer, and a transgenic barrier vivarium operated by Taconic Farms, as well as a conferencing center and administrative offices.

The inaugural project on the 93-acre site, Ge\*NY\*Sis is planned around a double loaded corridor with labs on either side, support labs throughout the floor, and “neighborhoods” of offices.

We conducted a market study and met with multiple stakeholders to define, conceptualize, and evaluate laboratory and facility planning features. Modular, expandable laboratories are designed to allow for aggregation as scientific programs grow. Significant public and common space support a host of scientific and public relations functions to advance fundraising and recruiting. A signature double-height glass lobby serve as a beacon for hope visible across the Hudson River.

The project was executed with fast-track construction in partnership with a construction manager to define early design decisions, separate bid packages, and control costs.

- 125,000 GSF new construction
- Programming, Architectural Design, MEP Engineering
- DNA micro array
- Transgenics core laboratory
- Vivarium
- LCM facility





# FIRM OVERVIEW

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## Disciplines

Architecture, Engineering, Energy, Environmental Graphic Design, Interior Design, Master Planning

## Integrated Design Expertise

- Academic Innovation
- Diplomatic Facilities
- Energy & Sustainability
- Health Education
- Healthcare
- Historic Preservation
- Libraries
- Master Planning
- Mission Critical Facilities
- Modernization
- Science & Technology
- STEM
- Student Life
- Workplace

## Research

- Building Science
- Healthcare Design
- STEM
- Energy
- Living-Learning
- Workplace

## Recognition

- 2018 Top 25 Architecture Firms, *Architectural Record*
- 2018 Giants 300, Architecture/Engineering Firms, *Building Design + Construction*
- 2018 Top 500 Design Firms, *Engineering News-Record*
- 2018 Healthcare Giants, *Interior Design*
- 2017 Architect 50, *Architect Magazine*
- 2017 MEP Giants, *Consulting-Specifying Engineer*
- 2017 Top Architects, #1 for Healthcare Renovation, *Health Facilities Construction Quarterly*

# SERVICES

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## Architecture

- Design
- Planning
- Programming
- Interior Design
- Life Safety
- Environmental Graphic Design
- Workplace Strategy & Design
- Master Planning

## Energy

- Energy Data Analysis
  - Energy modeling
  - Benchmarking
- DSM Programs for Utilities
- Building Performance Optimization
  - Energy Audits
  - Energy Master Plans
  - Retro-commissioning

## Software

- B3 Benchmarking
- NEO Net Energy Optimizer®
- Custom tools with WeidtSim®

## Engineering

- Electrical
- Fire Protection
- Mechanical
- Plumbing
- Security
- Structural
- Telecommunications

## Consulting

- Graphic Design
- Marketing Communications
- Public Relations



# HIGHER EDUCATION CLIENTS

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Boston University  
City College of New York  
Columbia University  
Columbia University Medical Center  
Columbus Technical College  
Dallas County Community College District  
Del Mar College  
Dominican College  
East Carolina University School of Dental Medicine  
East Carolina University School of Medicine  
George Mason University  
Georgetown University School of Medicine  
Houston Methodist  
Jackson Laboratory  
James Madison University  
Mercer University  
Mitchell Community College  
Montgomery College  
New York University  
New York University College of Dentistry  
The Nathan Kline Institute for Psychiatric Research  
New York State Department of Health  
Sam Houston State University  
St. Johns University School of Pharmacy  
St. Luke's Episcopal Texas Heart Institute  
SUNY at Stony Brook  
SUNY Upstate Medical University  
Temple University  
Tidewater Community College  
Trinity Washington University  
University at Albany  
University of Charleston School of Pharmacy  
University of North Carolina, Chapel Hill  
University of North Carolina, Wilmington  
University of Pennsylvania School of Medicine  
University of Texas at El Paso  
University of Texas MD Anderson Cancer Center  
University of Texas Medical Branch  
USACE Baltimore Armed Forces  
UTHealth  
Virginia Commonwealth University  
Virginia Commonwealth University Medical College of Virginia  
West Virginia University  
Yale University School of Medicine

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