

Science &
Technology

EYP/®

/ firm overview

EYP is a global provider of comprehensive high-performance building design, research, and consulting services. We are five sectors – Higher Education, Government, Healthcare, Science & Technology, and Energy – who work as one firm to help our clients address some of the most critical issues facing our nation and our world. Our professionals work across 15 offices in the United States and Europe.

The only firm to have been ranked #1 for energy and sustainability for two consecutive years by *Architect Magazine*, EYP is committed to creating rich, productive, and inspiring environments that promote human well-being, preserve natural resources, and provide flexibility and resilience for the future. Our knowledge-based innovation strategy helps promote action-oriented public dialogue about the future of the built environment.

Disciplines

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

Integrated Design Expertise

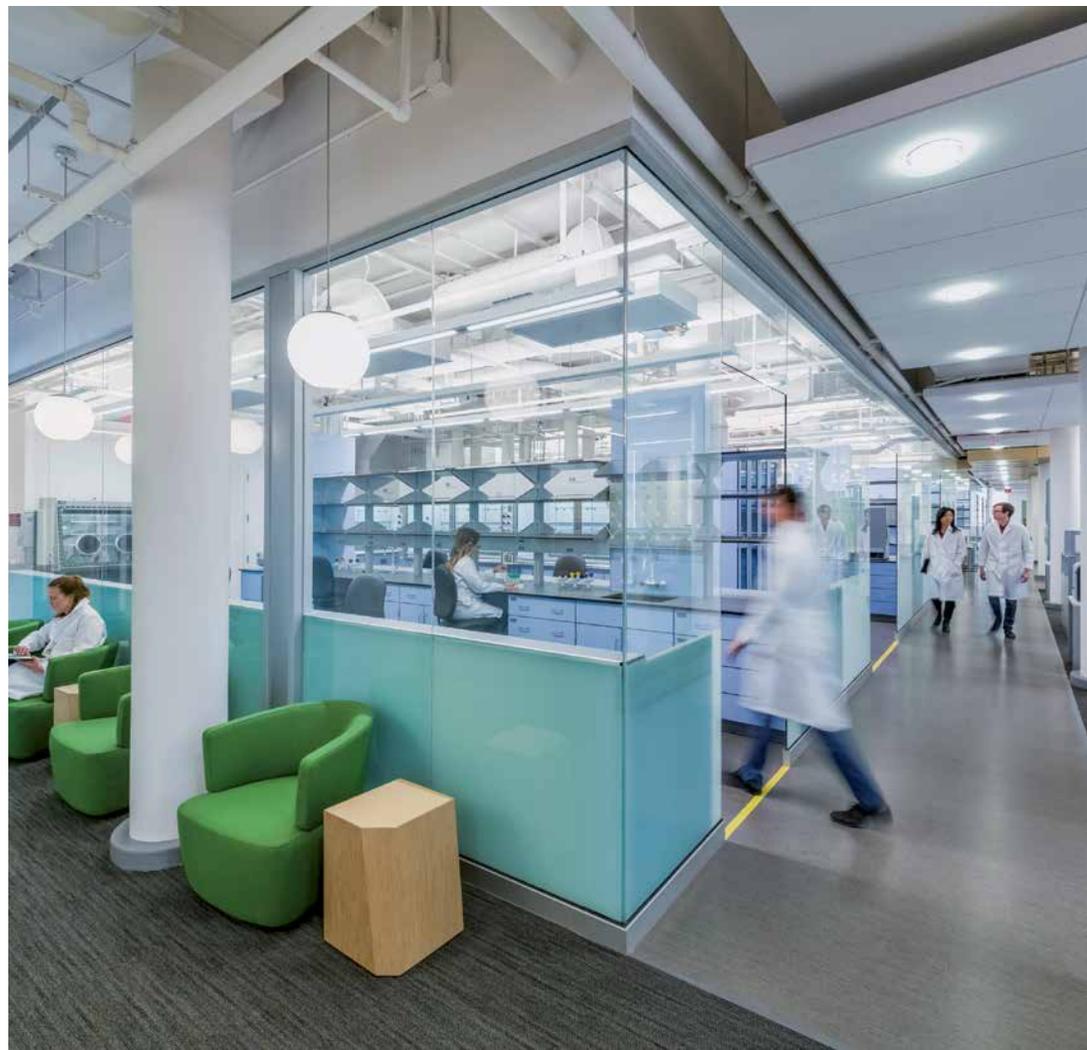
- Academic Innovation
- Embassies
- Energy & Sustainability
- Health Education
- Healthcare
- Historic Preservation
- Libraries
- Master Planning
- Mission Critical
- Modernization
- Science & Technology
- STEM
- Student Life
- Workplace

Research

The right building design can help organizations advance their mission and goals. Our research program makes us better designers and more valuable advisors to our clients – and helps our clients make more strategic decisions about their buildings. Our open innovation approach values collective intelligence. We partner with outside experts in many disciplines to transcend the limits of current thinking and expectations, collaboratively exploring and testing ideas in Building Science, Energy, Healthcare Design, Living-Learning, STEM, and Workplace.

Recognition

- 2016 Architect 50 – *Architect Magazine*
- 2016 Top 25 Architecture Firms – *Architectural Record*
- 2016 Top 25 Architecture & Engineering Firms – *Engineering News-Record*
- 2016 MEP Giants – *Consulting-Specifying Engineer*
- 2016 Giants 300 – *Building Design + Construction*
- 2016 Top 500 Design Firms – *Engineering News-Record*
- 2016 Top Architects – #1 for Healthcare Renovation – *Health Facilities Construction Quarterly*
- 2012-2015 AIA National IDP Outstanding Firm Award



/ science & technology

Seamlessly integrating modern architectural technology and design into scientific spaces is revolutionizing the way we view and experience the built environment. Our S+T team is passionate about increasing the sustainability and functionality of highly technical building types – including biomedical research facilities, biotechnology and pharmaceutical centers, and medical research laboratories – to create high-performing spaces that help each client achieve its critical mission. Each of our projects uniquely contributes to scientific research and development to advance our nation’s health, prosperity, and security while protecting the environment.

- Life Science
- Agricultural & Public Health
- Physical Sciences
- Advanced Manufacturing & Science Parks

Recognition

- #22 Science & Technology Sector, Building Design + Construction Giants 300

Contact

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/ life science

The exploration of new and novel biomedical discoveries and diagnostic treatments requires an understanding of the trends that shape the research environment that affect how science is conducted. EYP's S&T experts see research and development facilities as tools to motivate the business of science and create collaborative places that inspire new ideas.

- Biology & Biomedical Discovery Research
- Pharmaceutical Research & Development
- Clinical Research & Diagnostics Center

The Jackson Laboratory

Research Expansion Program, Bar Harbor, ME

University at Albany East Campus Technology Park

Gen*NY*Sis Center for Excellence in Cancer Genomics, Albany, NY

New York University

Biomedical Chemistry Institute

New York University

Center for Genomics & Systems Biology, New York, NY

James Madison University

Bioscience Building, Harrisonburg, VA

University of Pennsylvania

Richards Medical Research Laboratory, Philadelphia, PA

/ 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 & planning, Architectural Design, and MEP Engineering
- Vivaria
- Containment barrier
- Transgenics facility
- Wet lab





FOR PROTECTIVE WEAR
SEE BIOLOGICAL SAFETY

DA
-20 C

/ University at Albany East Campus
Biotechnology Park East Greenbush, NY
Gen*NY*Sis 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. These include 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 spaces support a host of scientific and public relations functions to advance fundraising and recruiting. A signature double-height glass lobby serves as a visible beacon for hope 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 & Planning, Architectural Design, and MEP Engineering
- DNA micro array
- Transgenics core laboratory
- Vivarium
- LCM facility





/ New York University New York, NY
Biomedical Chemistry Institute



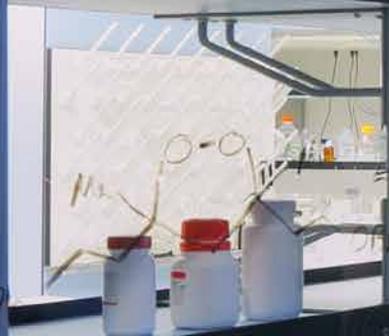
Loft-style labs replace outdated classrooms to accommodate collaborative faculty research in the converging fields of biomedical and synthetic chemistry. The project sets the design standard for transforming the entire 400,000 SF historic building to advance NYU's strategy for growing its research programs within its constrained urban campus.

An entire floor of outdated classrooms was transformed into an inventive, right-sized facility. The design employs the part of a glass box within a perforated masonry box to create a modern lab environment within a nearly 120-year-old structure. The main circulation corridor provides views of Washington Square Park, which inspired the interior palette.

Program elements were arranged to maximize research efficiency, achieve a high net-to-gross efficiency, and enhance occupant comfort and safety. BIM models enabled rapid prototyping to test options for the best-fit solution and coordinate the threading of new systems within the existing building fabric. The highly efficient MEP infrastructure was designed to support phased implementation. Self-closing fume hoods and LED lighting contribute to the efficiency of this energy-intensive space. The building was continuously occupied during renovation.

- 20,000 GSF renovation
- Architecture, Engineering, Programming & Lab Planning
- NIH and NSF grant submission assistance
- BSL-2 lab
- Synthetic Chemistry lab
- Low-flow fume hoods





/ New York University New York, NY
Center for Genomics & Systems Biology Renovation



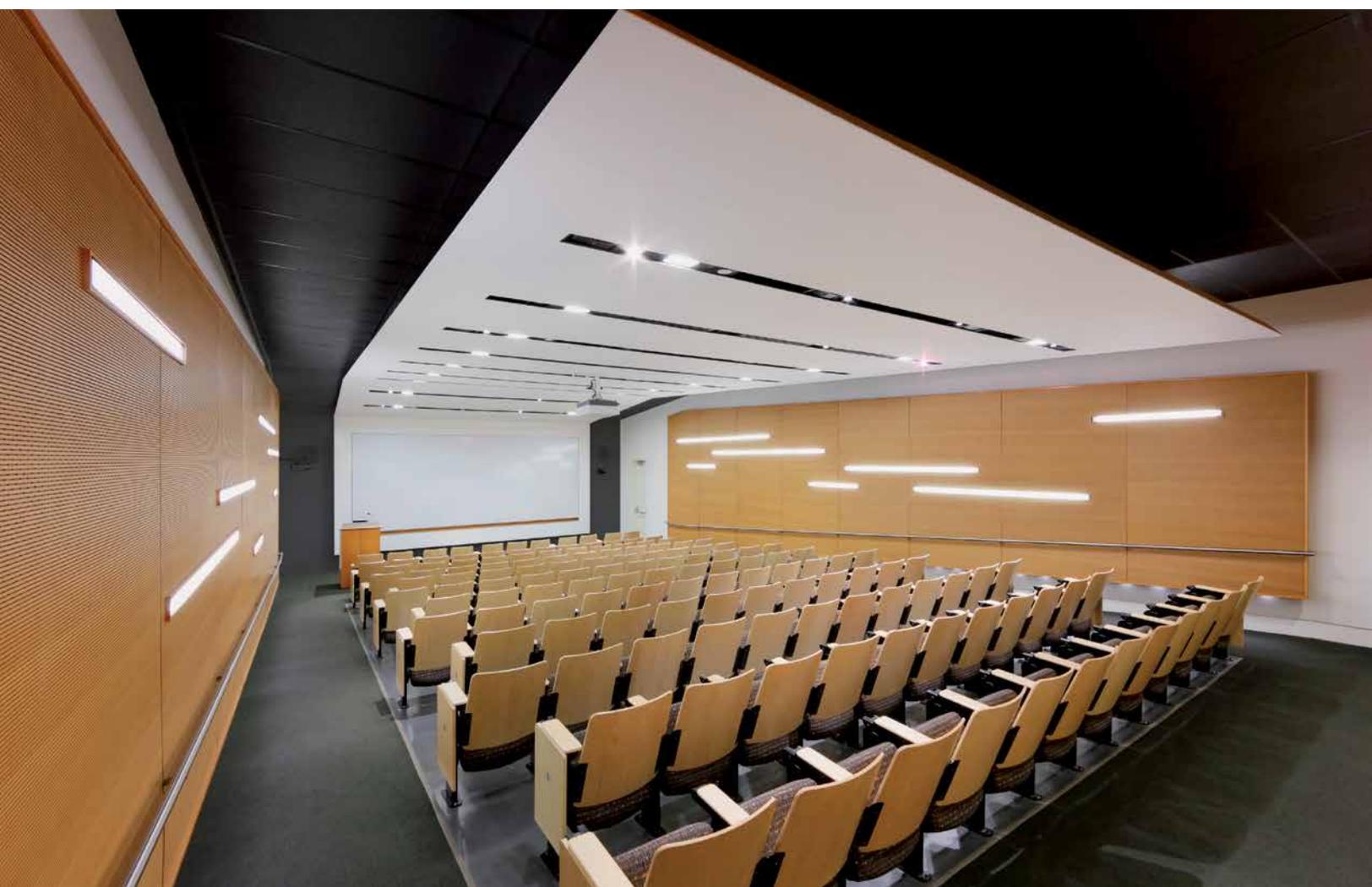
The Center for Genomics and Systems Biology is an interdisciplinary research center that rises behind the historic façades of three 100-year-old buildings in a dense urban neighborhood. To maximize space on the tightly constrained campus, the facility is innovatively planned as a 10-story vertical scientific community that promotes collaboration by fostering circulation and interaction between floors.

Behind the preserved façades, demolition of the existing structures and new construction proceeded in phases. The building expanded from six floors and a cellar, to eight floors, a cellar and subcellar, mechanical penthouse, and rooftop greenhouse. Flexible, open-plan laboratories efficiently co-locate more than one hundred genomics and bioinformatics scientists. The facility also contains a greenhouse and special environmentally controlled rooms for plant growth and other biological functions. Shared core facilities accommodate sensitive equipment and instrumentation. Flexible informal spaces foster intellectual community; an 86-seat auditorium enables the Center to host faculty and global partners for conferences and symposia.

EYP is the Executive and Collaborating Architect in association with Ennead Architects

- 71,000 GSF new construction
- Programming & Planning, Architecture, Laboratory Planning





/ James Madison University Harrisonburg, VA
Bioscience Building

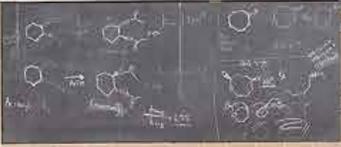


The CISAT A3b Academic Building is a signature facility for the biological sciences that establishes an impressive public entrance to the CISAT campus. Housing more than a dozen affiliated interdisciplinary groups under one roof, the building promotes discovery-based learning in a collaborative and interactive community of students and researchers.

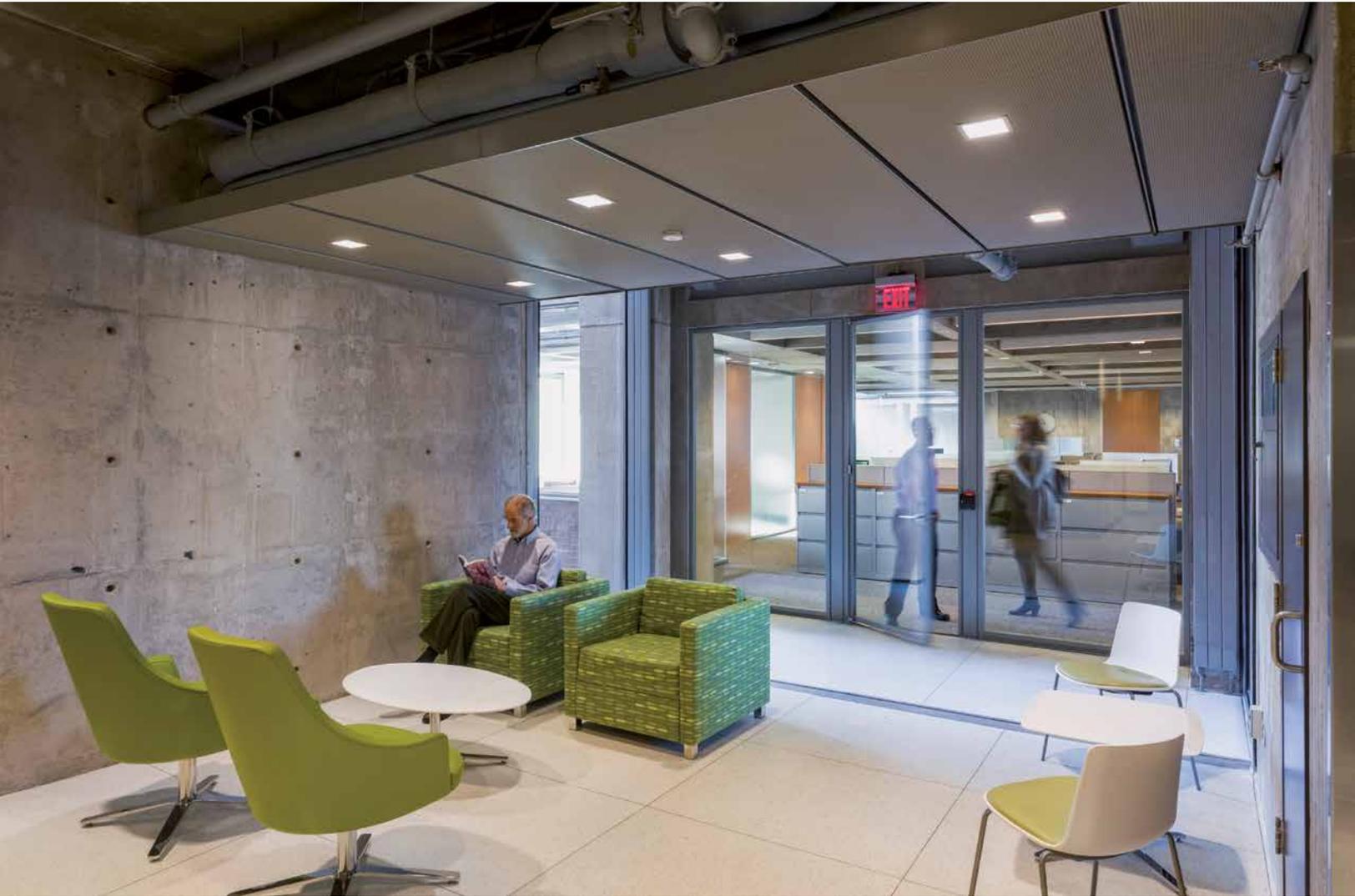
The facility is home to the Anatomy, Physiology, Microbiology, Ecology, and Plant Sciences departments. To foster interdisciplinary work, the 90,000 SF building is organized into neighborhoods of teaching and research labs, faculty and graduate student offices, and tutorial space for student and faculty collaboration. Shared spaces include lecture rooms, computer labs, seminar rooms, and common spaces for informal gathering, as well as a research greenhouse and 3,000 SF animal care facility.

- LEED Silver certified
- 90,000 SF new construction
- Programming & Planning, Architecture, MEP Engineering, Telecommunications, Commissioning





/ University of Pennsylvania Philadelphia, PA
Richards Medical Research Laboratory

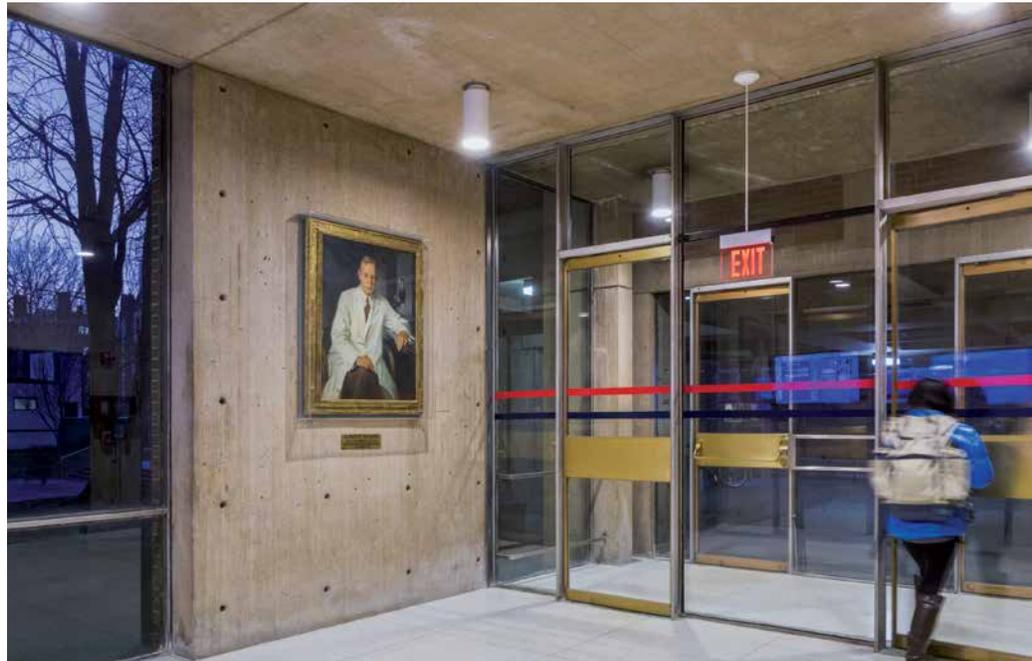


EYP master planned the repurposing of the Richards Medical Research Complex, one of the great buildings of the 20th Century designed by Louis Kahn, away from its original purpose as a wet-lab, fumehood intensive facility with its attendant heavy HVAC requirements, into a program of computational research spaces populated by leading Principal Investigators and their support and administrative staff.

The inaugural renovation project, located in portions of the C and D Towers for the Center for Cognitive Neuroscience (CCN) and the Center for Functional Neuroimaging (CfN), will serve as a model for the eventual transformation of the entire Richards Complex.

Following a rigorous analysis of the building, program and Kahn's design principles, EYP is developing Guidelines and a "kit of parts" for the exterior restoration and the transformation of the building's interior. These will ensure optimum flexibility, efficiency and consistency in the creation of interventions that are simultaneously contemporary and respectful of Kahn's original design intent.

- 107,000 GSF modernization
- Master Planning, Architecture, and Engineering
- Historic Preservation
- Restoration Guidelines





/ agricultural & public health

Facilities that support agricultural research, the use of laboratory animals for safety assessment and testing, as well as centers for the animal research and diagnostics, require their own unique understanding of the functional and operational demands, environmental considerations and unique compliance requirements, while creating safe and hospitable places for the resident staff and animals alike. EYP's in-house experts have designed a variety of biocontainment, barrier and isolated facilities within the specialized and strict operational-commissioning requirements to meet the real world compliance issues of Human/Agricultural Biosafety Levels 3 & 4 (BSL-3/4 and ABSL-3Ag).

- Biocontainment
- Drug Safety Testing & Public Health Labs
- Food Science Research

Cornell University

Agriculture and Food Technology Park, Geneva, NY

US Army Public Health Command

Food Analysis and Diagnostic Laboratory, San Antonio, TX

Houston Methodist Hospital

Research Institute, Houston, TX

University of Texas Health Science Center

Medical School Expansion, Houston, TX

Texas Heart Institute

Cardiac Regeneration Laboratory, Houston, TX

/ Cornell University Geneva, NY
Agriculture and Food Technology Park



The Flex Tech Building accommodates entrepreneurs, start-ups, and diversifying companies conducting field/greenhouse trials, providing lab space, equipment, and offices in close proximity to the research facilities of Cornell University.

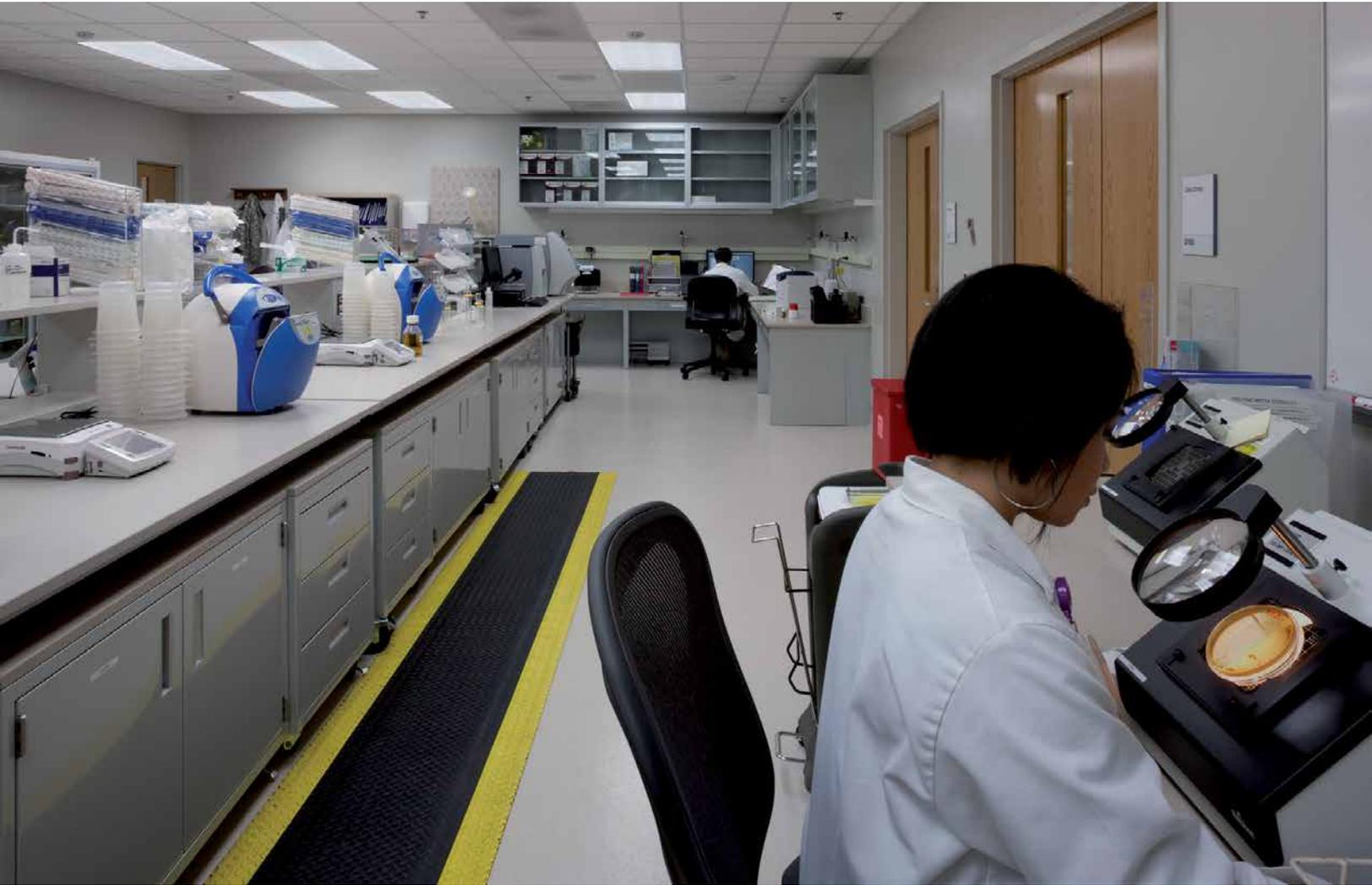
We partnered with CAFTPC Management, Inc. to develop a master plan for the proposed 375,000 SF of research laboratory, pilot plant, and community spaces to guide the development of a technology park for commercial businesses related to agriculture, food science, and biotechnology research and development. Our design of the Phase 1 incubator Flex Tech Building, which can accommodate a range of research or pilot plants, sets the standard for future development of the Technology Park.

- 20,000 SF new construction
- Master Planning, Architecture, and Engineering
- Wet Laboratory





/ US Army Public Health Command San Antonio, TX
Food Analysis and Diagnostic Laboratory

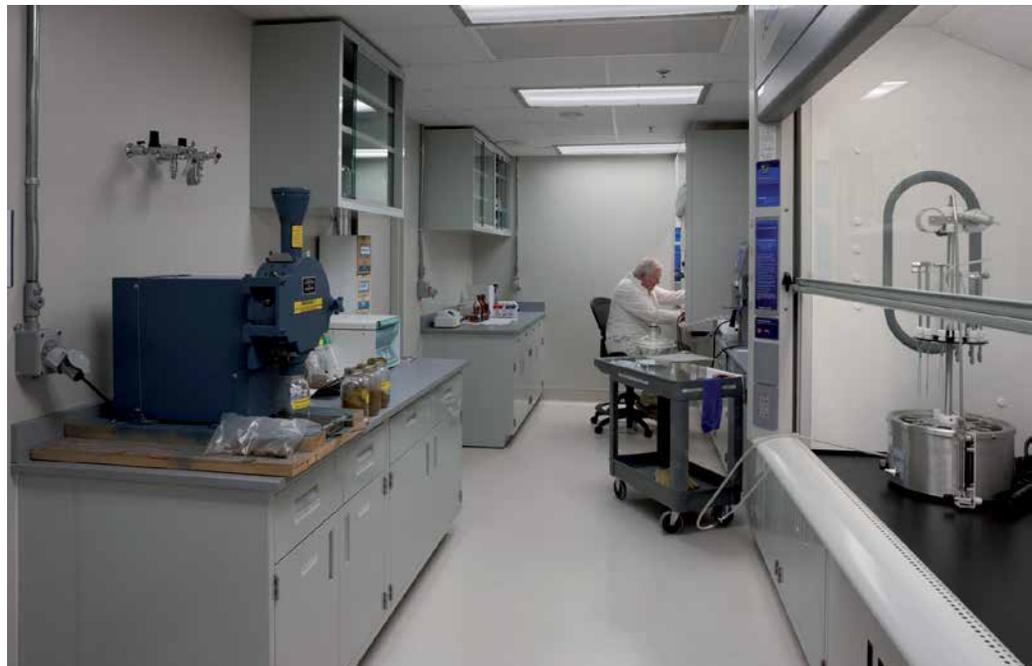


This project renovated the Food Analysis and Diagnostic Laboratory as well as the newly created Army Public Health Command at Fort Sam Houston. The scope of work included the complete renovation of much of the existing facility, the reconfiguration of existing office space, and the renovation of office to lab space on the second floor. Renovated areas include completely new MEP systems, walls, ceilings, finishes, casework, and equipment.

This project created flexible, operational, and efficient lab and office environments that support the users in their daily work. Construction was phased for a smooth construction experience to keep this important facility running with minimal disruption. Temporary laboratory and office suites nearby minimized the number of times each department had to move. The existing building HVAC system was isolated into two halves to maintain functionality during construction.

The facility was made code compliant and safety forward. The modern laboratories meet industry standards as well as the special needs of its unique users. The upgraded facility is sustainable in both construction and life cycle needs.

- 500,000 GSF modernization
- Programming & Planning, Architecture, and Laboratory Planning
- Phased Construction
- BSL-2 labs
- Armed Forces Food and Water Safety Testing
- Insect housing
- Laboratories for microbiology, rabies testing, zoonotic serology, and entomology





/ Houston Methodist Houston, TX
Research Institute



The Research Institute is prominently situated on Bertner Avenue adjacent to Houston Methodist's main hospital. The new facility is dedicated to translational research and houses a variety of biomedical and core laboratories and support spaces that form a collaborative research facility for the study of diseases, including cancer, diabetes, heart, neurological and infectious diseases. Leveraging its physical connection to the hospital, the Institute pursues a "bench to bedside" approach that streamlines the process of translating laboratory research to treatments and cures for patients. The building contains a full complement of highly advanced core facilities consisting of a full imaging and molecular imaging suite, state-of-the-art equipment and a cyclotron.

Equipped with the world's most advanced technology, the 12-story, 440,000 SF facility was designed to advance the hospital's mission to cure diseases through innovative translational research, with the ultimate goal of changing the future of medicine.

- 440,000 GSF new construction
- Programming & Planning, Architecture, Laboratory Planning, and Interior Design
- Phased Development / Construction
- Translational / Biomedical Research
- Vivarium & Imaging



METHODIST HOSPITAL RESEARCH INSTITUTE



Methodist

/ UTHealth Science Center 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. The 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 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.

- 200,000 GSF new construction
- Programming & Planning, Architecture, Laboratory Planning
- Biomedical Research
- Open, Flexible Labs
- Vivarium for small and large animals



/ Texas Heart Institute Houston, TX
Regenerative Medicine Laboratory



The Regenerative Medicine Laboratory is a 7,400 SF facility at the Texas Heart Institute (THI) in Houston's Medical Center. In 2012, Dr. Doris Taylor was recruited as Director of Regenerative Medicine Research at THI. Dr. Taylor is a pioneer in the development of cardiovascular cell therapy and bio-artificial organ technology. A special bench and shelves were custom designed to aid the researchers in suspending large de-cell solution containers above their workbenches. Hydraulic lifts suspended over the benches allow the research team to adjust the large de-cell solution containers to accommodate different experiments.

The benches also utilize custom perforated work surfaces with a trough and integral drain below so cellular and liquid waste can be easily removed from the work space. The 1,800 SF bio-repository core lab stores, catalogs, and makes adult stem cells available for approved research to laboratories throughout the nation in service of the Cardiovascular Cell Therapy Research Network (CCTRN). The lab consists of cell preparation, data analysis, FACS, liquid nitrogen cryo-storage, and bio-respository spaces.

- 7,400 GSF new construction
- Programming & Planning, Architecture, and Laboratory Planning
- Research Labs
- Core Laboratory Services
- Biorepository





/ physical & natural sciences

As the fields of physics, biology and chemistry merge and collide with advancing new technologies and emerging opportunities in biomedical, energy and material sciences, EYP's S&T experts have used our multi-discipline and varied experiences and lessons learned from aligned sciences to see new ways of supporting scientific environments.

- Physics
- Chemistry
- Marine Science Facilities
- Engineering Research

Brookhaven National Laboratory

Physics Building Research Laboratory, Upton, NY

Pennsylvania State University

Steidle Building, State College, PA

Rochester Institute of Technology

IT Collaboratory Facility, Rochester, NY

National Oceanic and Atmospheric Administration

Satellite Operations Facility, Suitland, MD

SUNY Maritime

Maritime Academic Center, Throggs Neck, NY

University of North Carolina

Marine Biotechnology Research Facility, Wilmington, NC

New York University Polytechnic

Tandon School of Engineering Research Laboratories, New York, NY

Texas A&M University, Corpus Christi

Harte Research Institute for Gulf of Mexico Studies, Corpus Christi, TX

/ Brookhaven National Laboratories Upton, NY
Physics and Chemistry Research Laboratories



One of ten national laboratories overseen by the US Department of Energy, Brookhaven has undertaken a multi-phased modernization of its facilities that will ultimately update more than four million SF of building infrastructure. We modernized two research laboratory floors in critical 1960s facilities – Building 510 (Physics) and Building 555 (Chemistry) – to accommodate rapidly changing technologies and research protocols.



Glass walls open previously dark and isolated labs to create a more open, flexible, and adaptable work environment, improving occupants' experience and fostering a sense of community to encourage collaboration. New spaces in Building 510 include two Class 10,000 clean rooms and upgrades to the Physics Seminar Wing, including an auditorium and flexible event space. In Building 555, we updated laboratory spaces, overcoming infrastructure quality issues to create state-of-the-art, flexible, and efficient facilities for chemical and material sciences.



The project upgraded 100,000 GSF and included life safety plans, infrastructure, and laboratory ventilation to significantly reduce energy consumption and accommodate future laboratory renovations and fit-outs.

- 100,000 GSF modernization
- Architecture, Engineering, Programming & Planning
- 2 Class 10,000 clean rooms
- Core lab
- Dry lab
- Wet lab





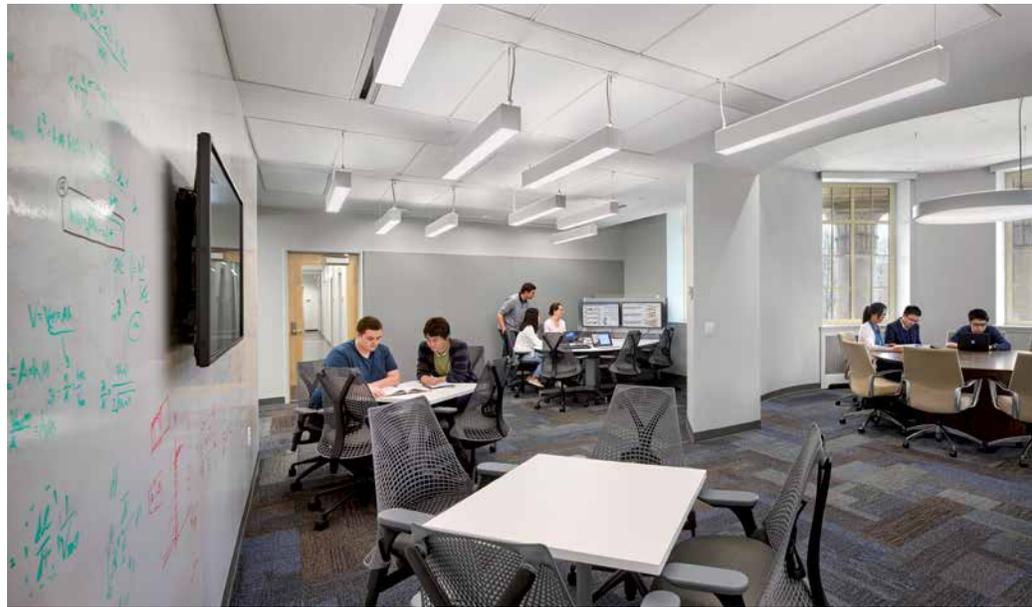
/ Pennsylvania State University State College, PA
Steidle Building



Built for early 20th-century science and technology, Steidle had become too small, outdated, and inefficient to support Penn State's world-class Material Science & Engineering (MatSE) program. Renewing this campus icon will restore it to its original status as a state-of-the-art facility. To provide the complete data required to inform critical decision-making, we assessed and evaluated the integrated effects of architectural, lighting, and HVAC improvements. We engaged the client in an inclusive problem-solving approach to explore options for maximizing building energy performance. The selected design will yield annual energy savings of 42% in relation to energy code.

Scientifically informed design is just the beginning. The project includes metering infrastructure that enables the evaluation of energy performance post-occupancy. Comparing actual metered performance to expected performance will enable our team to recommend performance enhancement options in order to maintain peak energy-efficient operations over the coming decades of Steidle's new life.

- 34,000 GSF new
- 66,000 GSF modernization
- Programming & Planning, Architecture, MEP Engineering, and Laboratory Planning
- Electrochemistry
- Structural materials
- Energy conservation
- Polymer system
- Illumination Award for Lighting Control Innovation, *Illuminating Engineering Society (IES)*





/ Rochester Institute of Technology Rochester, NY
IT Collaboratory



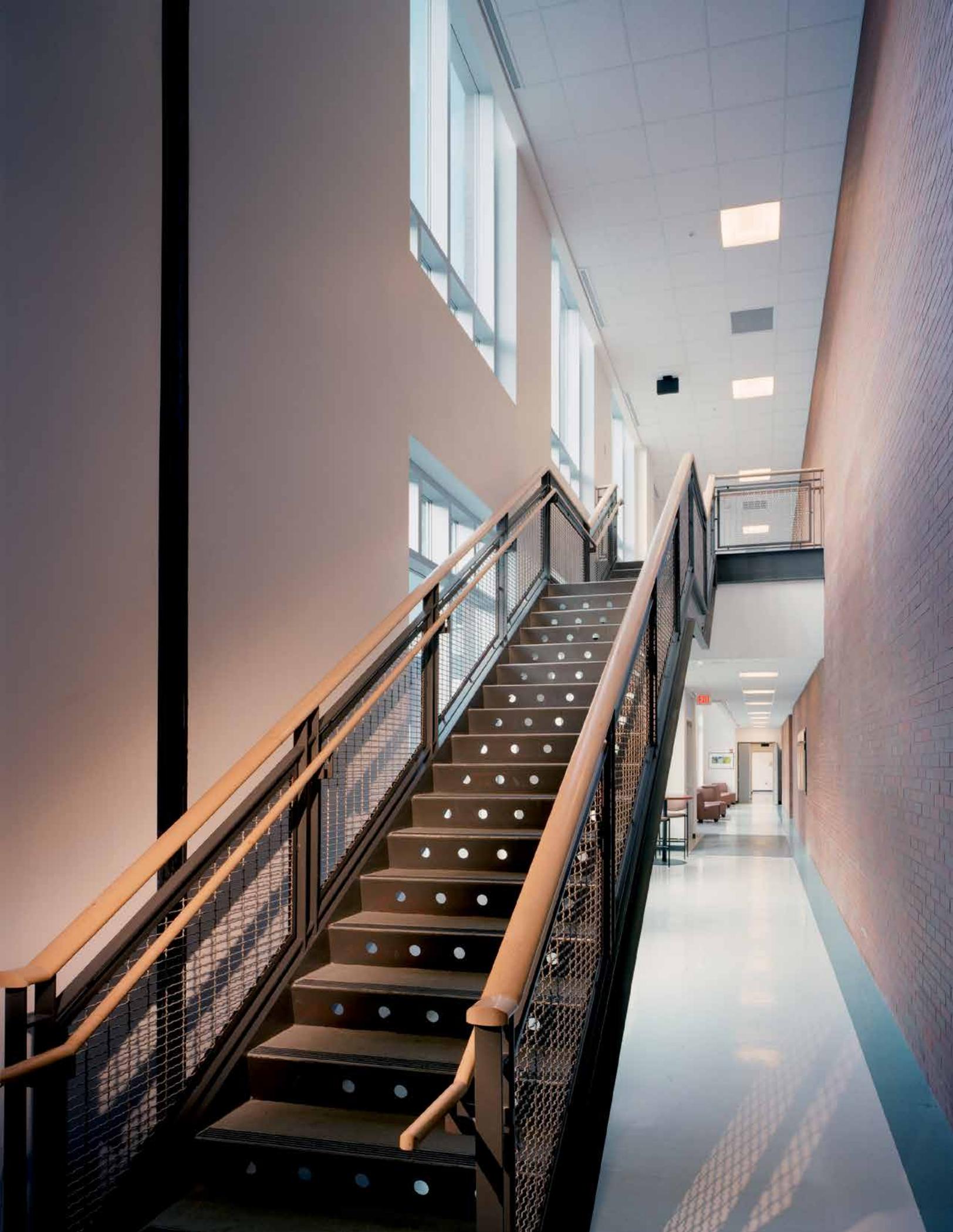
The Rochester Institute of Technology (RIT), in partnership with the Institute for Lasers, Photonics, and Biophotonics at the University at Buffalo, and the College of Ceramics at Alfred University, was awarded funding by the New York State Office of Science, Technology and Academic Research (NYSTAR) to create a Strategically Targeted Academic Research (STAR) Center, called the IT Collaboratory. Subsequently, we were commissioned by RIT to design an addition to their Microelectronics Building to house the IT Collaboratory and its various research laboratories. The project involves expansion of RIT's clean room research space and the addition of much needed support spaces.

The 32,000 SF addition provides a new face for the expanding campus. The laboratory creates a multi-disciplined, collaborative research environment and provide visible linkage with related industry partners.

Initially, the new laboratories allow for optimization of the existing Class 1000 semiconductor fabrication lab by providing support operations such as material analysis and characterization. The labs will be convertible to clean rooms in the future as demand requires. The Collaboratory also supports research efforts for remote sensing, nano-lithography and microsystems research

- 32,000 SF new construction
- Class 1,000 semiconductor fabrication lab





/ National Oceanic and Atmospheric
Administration Suitland, MD
Satellite Operations Facility



The technically advanced critical facility – the only satellite command and control center of its kind in the NOAA network – nestles a substantial portion of its secure program beneath a 145,000 SF green sod roof, with slotted openings creating skylights and courtyards. Located on a secure federal campus, the 24/7 program requires redundancy of systems and backups, with integrated data and telephone communications, to ensure reliable function.

Secure computer circuits, stabilized power distribution units, and sophisticated temperature controls are integral to this sustainable design. Integrating energy conservation measures from the earliest design phases enabled us to incorporate efficient and cost-effective features for substantial savings of energy resources and associated costs. The high-performance design takes advantage of the earth's insulating properties to save energy and to blend in with surrounding landscape. In addition to 60,000 SF of satellite control and operations space, 6,100 SF are devoted to entrance security screening and a Secure Compartmented Information Facility (SCIF). In addition, 140,000 SF of the work area – including offices, support facilities, conference spaces, and break rooms – is open and reconfigurable space.

- LEED Gold certified
- GSA Design Excellence program
- 210,000 SF new construction
- Architecture, Engineering, Energy, Sustainability, Interior Design/FF&E
- *Business Week/Architectural Record*, Editor's Choice Award
- *Architecture Magazine*, Progressive Architecture Award
- AIA Los Angeles, Design Award
- General Services Administration, Design Award





/ SUNY Maritime Throggs Neck, NY
Maritime Academic Center

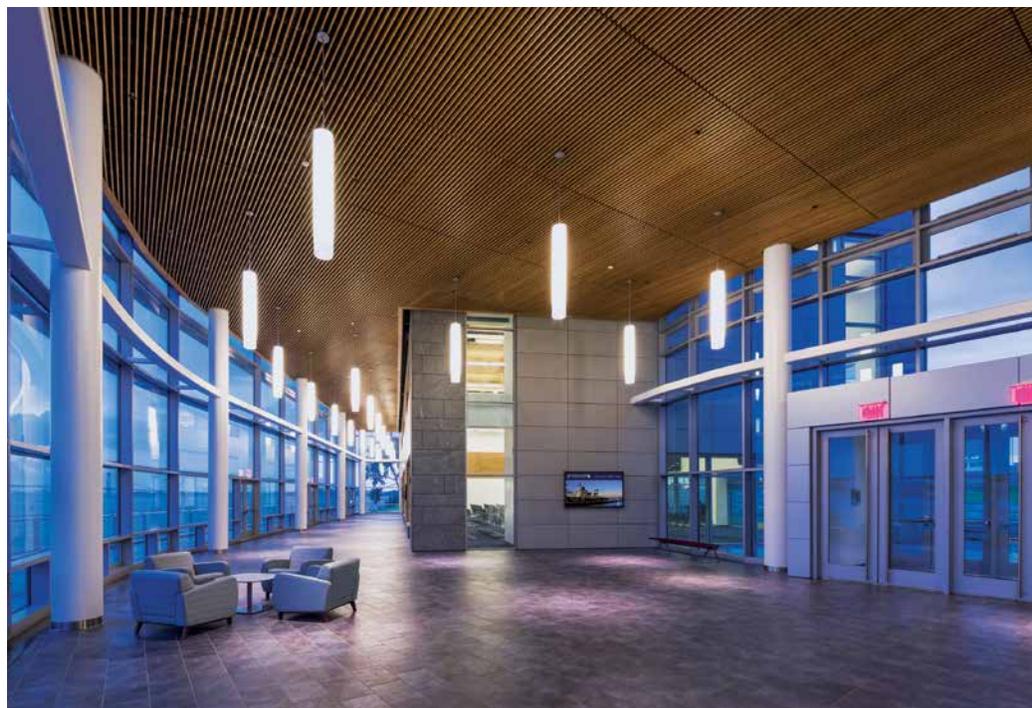
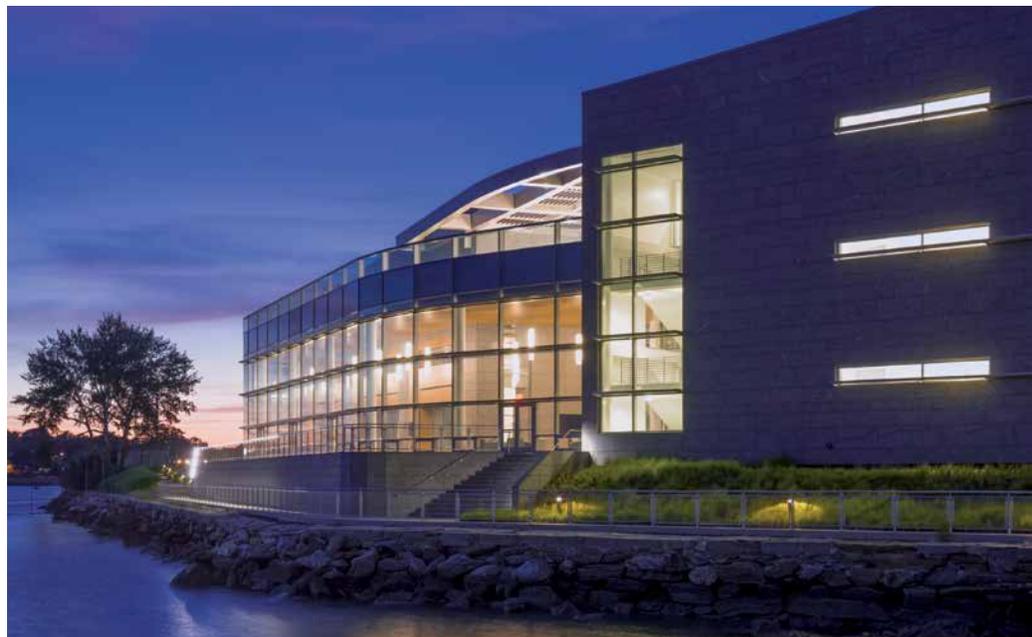
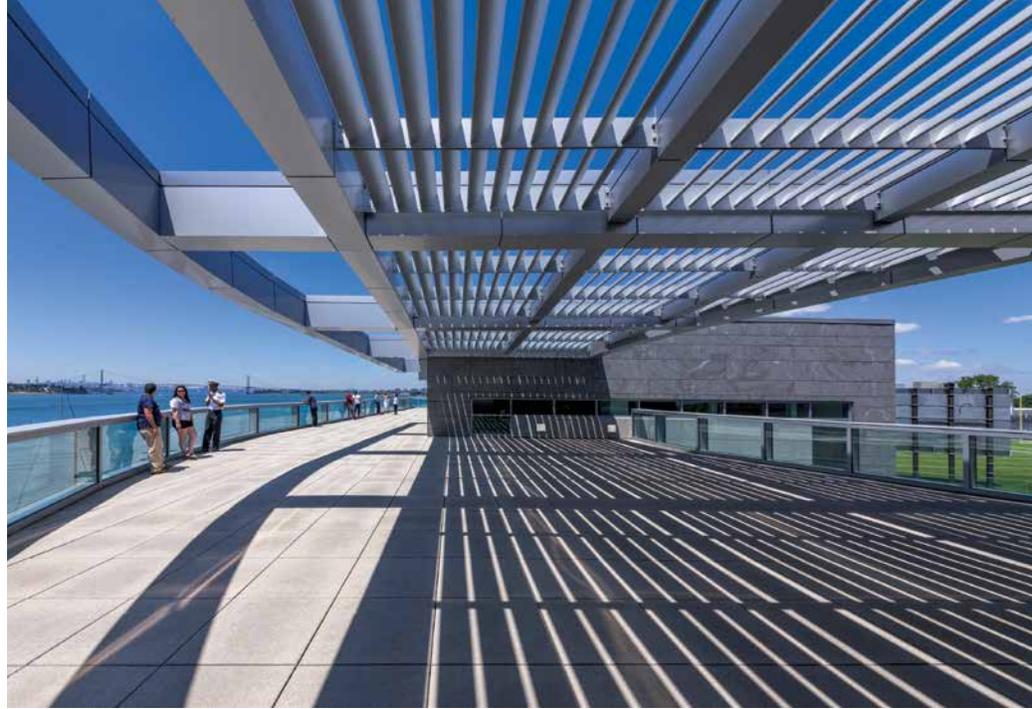


Prominently sited overlooking the Long Island Sound, the new Academic Building symbolizes SUNY Maritime's prominent role in the increasingly global arena of maritime education and affairs. The signature design reflects the institution's international reputation for preparing students for careers in the maritime industry.

Bioclimatic analysis informed the design of this showcase for sustainability to reduce wind friction, conserve heat in winter, and provide cooling natural ventilation in summer. Extensive glazing brings natural light deep into the floor plate and illuminates the waterfront by night. The facility houses a 350-seat auditorium, lecture halls, and classrooms for academic programs, which can also be used for maritime industry conferences.

A central atrium balances the dynamic tension between the conference and classroom wings. The structure, which is clad in local stone to reference the adjacent historic fort, appears to rise from the seawall it closely hugs. Visible to every passing ship approaching Long Island Sound and the East River, the building is a dynamic addition to the cityscape.

- 45,400 GSF
- Architecture, Engineering, Programming & Planning, Geotechnical Site & Utility Improvements, Construction Administration





/ University of North Carolina Wilmington, NC
Marine Biotechnology Research Facility



EYP's sustainable design maximizes 66,000 SF of highly flexible spaces for research and development. The facility houses 18 labs and 7 environmental control rooms as well as tissue culture rooms, 2 microscopy labs, 2 autoclave sterilization rooms, an electrophysiology lab, a clean room, and a foodservice area. MARBIONC (Marine Biotechnology, North Carolina), the anchor tenant, occupies 50% of the facility, while the remainder of the facility is organized into modular, multi-functional labs with specialized research equipment that can easily be reconfigured to meet various tenant requirements. Offices are positioned along the exterior façade, drawing daylight into the interior and serving as a barrier to protect the labs from potential hurricane damage. Large conference rooms and common meeting areas provide opportunities for interactions among tenants. A central courtyard provides space for events and connects the Center to another building on the UNCW CREST (Campus for Research, Entrepreneurship, Service and Teaching).

MARBIONC is designed to increase the connectivity and sense of community on the UNCW CREST. The LEED Silver facility is prominently sited on the Intracoastal Waterway to communicate the potential of public-private R&D partnership for economic development. The project was NIST grant funded under the American Reinvestment Recovery Act (ARRA).

- 66,000 SF new construction
- LEED Silver
- 18 labs
- 7 environmental control rooms
- 2 microscopy labs
- Clean room





/ New York University Polytechnic New York, NY
Tandon School of Engineering Research Laboratories –
Rogers Hall 6th and 8th Floors



This 20,000 SF state-of-the-art facility for the Chemical and Biomolecular Engineering Department and the Mechanical and Aerospace Engineering Departments in Rogers Hall, is the research hub for the NYU Tandon School of Engineering.

Flexible open wet and dry research labs will support a mix of interdisciplinary principal investigators collaborating on protein engineering and molecular design, applied micro-bioengineering, nanomaterial processing and nanofabrication, and catalysis and reaction engineering research themes. The facilities will include 5,000 SF Class 10,000 clean room, 8,000 SF of BSL-2 lab, and shared instrumentation lab for NMR, lasers and microscopy, shared cold rooms, PI and student offices and social interaction areas.

The project is part of a larger campaign to install new MEP infrastructure to support the entire building in phases and is driven by a tight schedule to provide needed research space for new faculty hires. The entire project will be accomplished from design to occupancy within 12 months.

- 20,000 GSF modernization
- Programming & Planning
- Architecture
- Laboratory Planning





/ Texas A&M University, Corpus Christi

Corpus Christi, TX

Harte Research Institute for Gulf of Mexico Studies

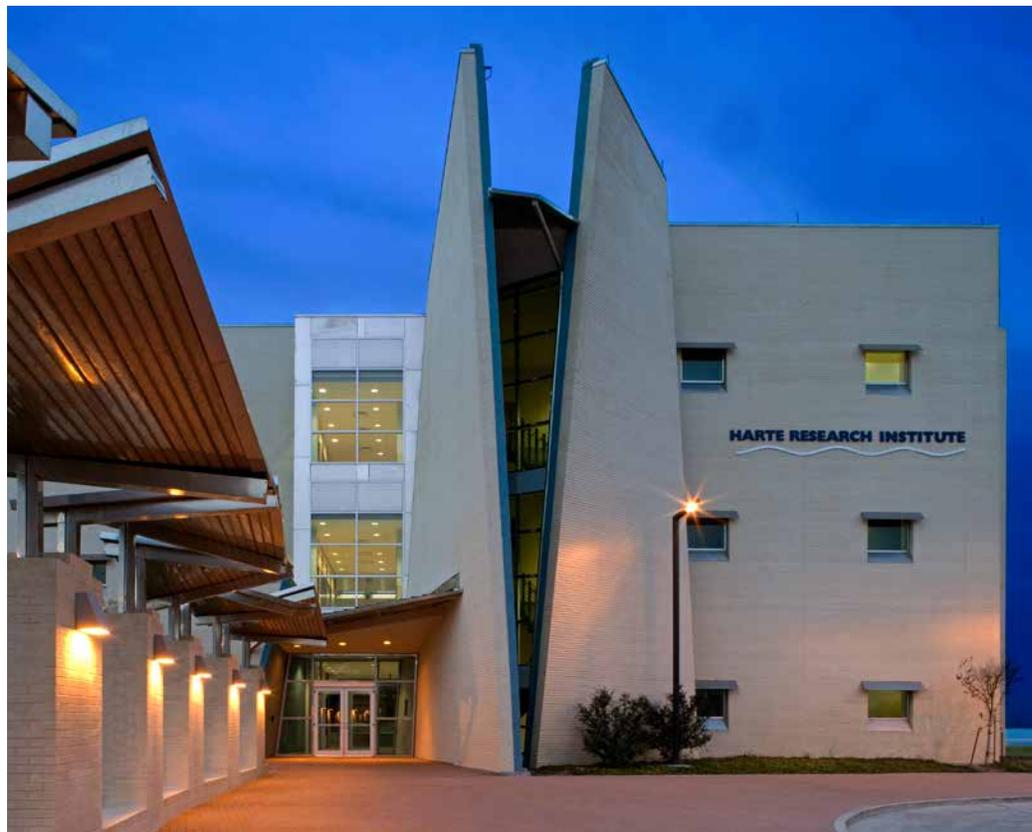
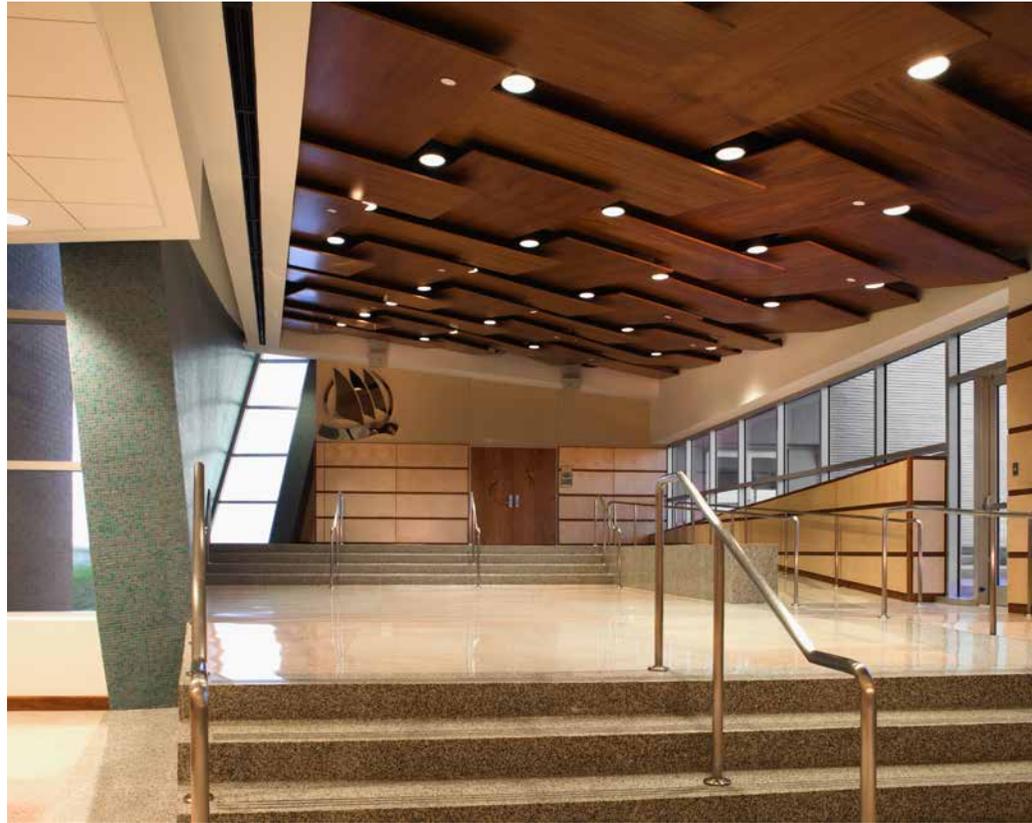


The new 56,000 GSF marine science research facility advances the University's focus on teaching, research, and service related to the Gulf of Mexico with special emphasis on the Texas Gulf Coast. The building includes an education outreach center, research and teaching laboratories, seminar room, classrooms, and conference center.

The design of the Institute integrates the technological and the organic. In the science spaces, brick, stainless steel, and glass combine in a taut and technical expression. In counterpoint, these same materials appear to be organically flowing through the public areas, slicing and swimming through the building to establish a dynamic that leads from the campus approach to the conference center overlooking Corpus Christi Bay.

We were Associate Architect with Richter Architects.

- 56,000 GSF new construction





HRI MARINE
BIODIVERSITY LAB



HRI MARINE
BIODIVERSITY LAB

MARINE
BIOCHEM LAB

/ advanced manufacturing & science parks

Emerging new technologies and rapid prototyping, along with the convergence of 3-D printing, with the influence of nanoscience with biology, microelectronics and material science with industrial applications has created the need to rethink how today's advanced manufacturing and production facilities operate and need to be prepared to adapt to greater changes in the business environment. EYP's advanced S&T teams have identified new ways to promote integrated technological thinking, to plan and deliver process and product-driven facilities.

- High-Tech Component Manufacturing Facilities
- Micro-Electric Systems Fabrication Facilities
- Cleanroom Environments
- Nanotechnology
- Corporate Innovation Centers

General Electric (GE)

Renewable Energy Global Headquarters, Schenectady, NY

General Electric (GE)

Advanced Battery Manufacturing Facility, Schenectady, NY

Regeneron Pharmaceuticals

Facilities and Real Estate Master Plan, Tarrytown, NY

SUNY Polytechnic Institute

Zero Energy Nanotechnology Building, Albany, NY

/ General Electric Schenectady, NY
Renewable Energy Global Headquarters



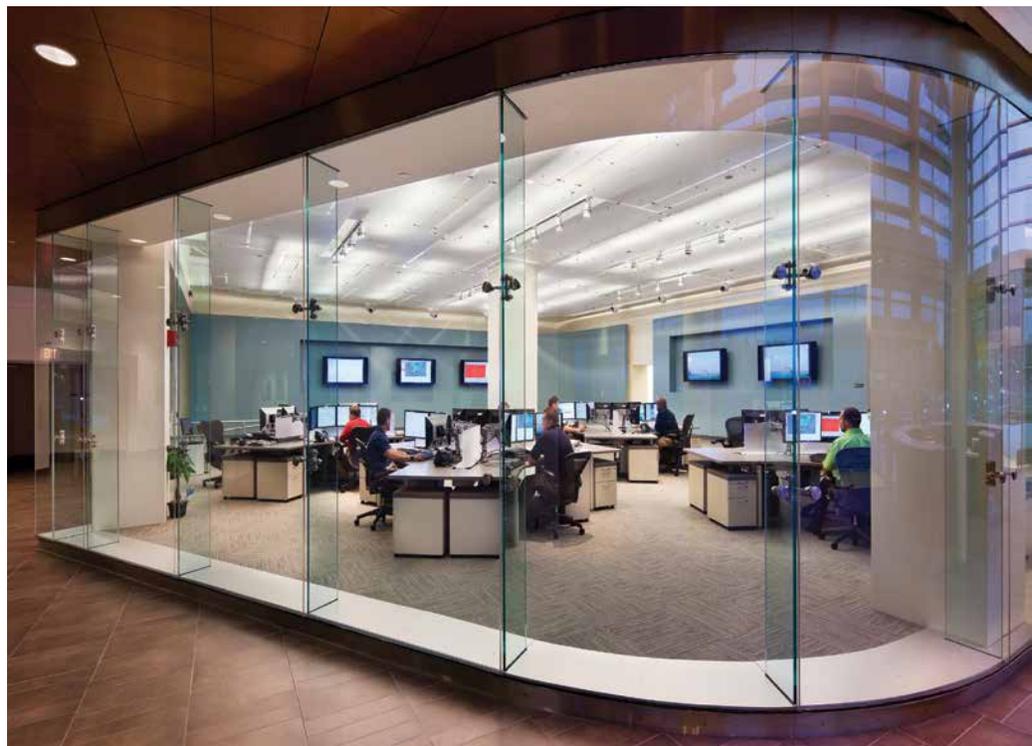
The reinvention of Building 53 – as a dynamic global headquarters and R&D center for Renewable Energy – embodies GE innovation. Adaptive use of the 100-year-old structure demonstrates GE’s commitment to celebrating its legacy, living its sustainable energy brand, and cultivating an inspiring, creative workplace.

A critical data center was doubled in size and operated without interruption during construction. Advanced communication, computer, and security requirements were carefully integrated into the design. Functional spaces are unique to the plant’s research and development infrastructure. Raised floor systems throughout the facility maximize flexibility and ease of access.

Energy modeling informed a design that uses 25% less energy than a comparable ASHRAE 90.1-2004 baseline building. A new building envelope, referencing the cutting-edge R&D that takes place within Building 53, contributes to a high-tech aesthetic that celebrates the GE brand. A cantilevered sunshade “blade” off the main entry references wind turbine technology. Removing two bays of the building opened space for a dramatic atrium with a visible 24/7 worldwide wind energy monitoring center that enhances the visitor experience.

The collaborative environment of the Renewable Energy Global HQ accelerates knowledge-sharing to foster synergies that power progress on projects like GE’s Digital Wind Farm.

- LEED Silver certified
- 205,000 GSF modernization
- Architecture, MEP & structural engineering, feasibility study
- Architectural Record Good Design is Good Business Award
- AIA Eastern New York Design Excellence Award





/ GE Schenectady, NY
Advanced Battery Manufacturing Facility



The design of Building 66 celebrates the building's industrial past while embracing forward-thinking concepts of sustainability and discovery. A global leader in technology and energy innovations, GE is committed to the transformative adaptive use of existing structures on its historic campus in Schenectady, New York.

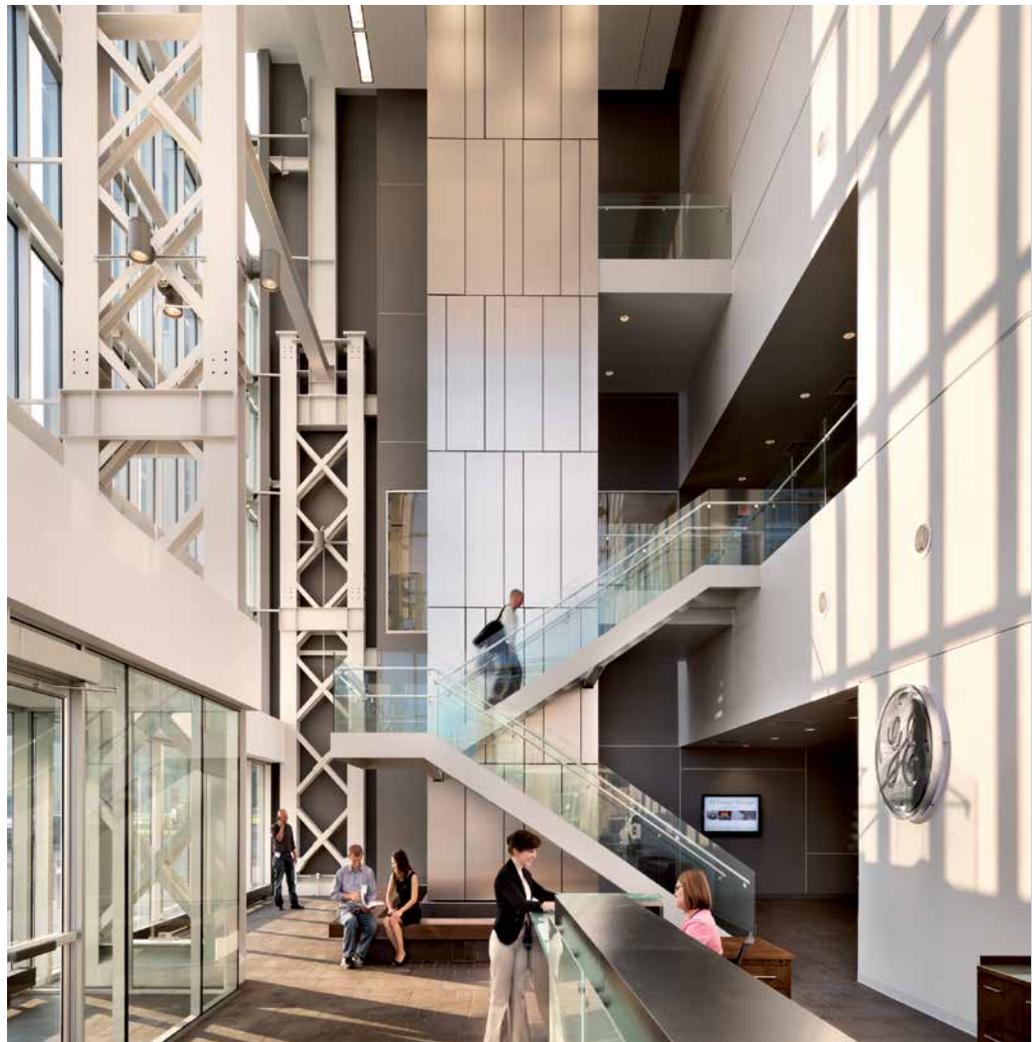


We collaborated with process engineering consultants to adaptively use a 45,000 SF portion of the 200,000 SF 1960s structure - in a cost effective solution and to upgrade and resurface the existing building envelope to create a contemporary, high-tech aesthetic and increase energy efficiency. The design re-invention creates a sustainable, state-of-the-art plant focused on testing and producing high-efficiency batteries for hybrid locomotives and electric vehicles.



Our design team enhanced the public entrance to create a new four-story atrium, where original structural elements contribute to a new industrial aesthetic. The atrium provides an impressive welcome to clients; its connection to work spaces makes it an ideal collaboration space that supports day-to-day as well as conference activity.

- 45,000 SF modernization
- Architecture, engineering, programming, planning



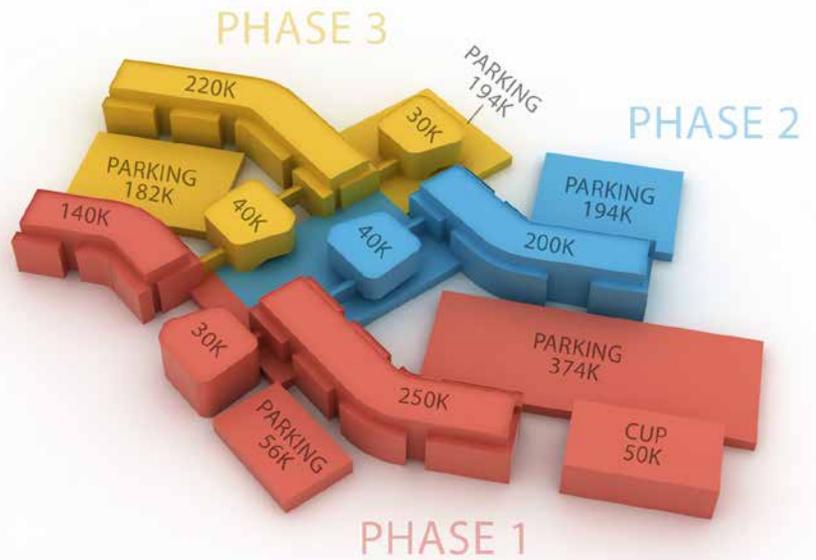


/ Regeneron Pharmaceuticals Tarrytown, NY
Facilities and Real Estate Master Plan



EYP developed a 35-acre master and site planning project for Regeneron's main R&D campus in Tarrytown, NY. The company has an extensive pipeline of investigational product candidates that are progressing through all stages of human clinical trials. Their successful therapies address many serious medical conditions including cancer, eye diseases, inflammatory diseases, pain, cardiovascular diseases, and allergic conditions. The EYP team undertook an intensive nine-week planning process, to develop concepts and ideas for the design of a new campus for Regeneron. Planning included: corporate headquarters, laboratory research and development space, vivarium, parking and a new central utility building, and amenities such as café, fitness, outdoor courtyards, daycare, and a space to acknowledge and display Native American artifacts found on the undeveloped site.

- 1,000,000 GSF R&D space plan
- 1,000,000 GSF Parking, materials handling, and services plan
- Phase 1: 200,000-300,000 GSF new construction
- Programming, Planning
- Core labs
- Dry labs
- Wet labs
- Outdoor gathering space
- Pharmaceutical R&D labs
- Vivaria





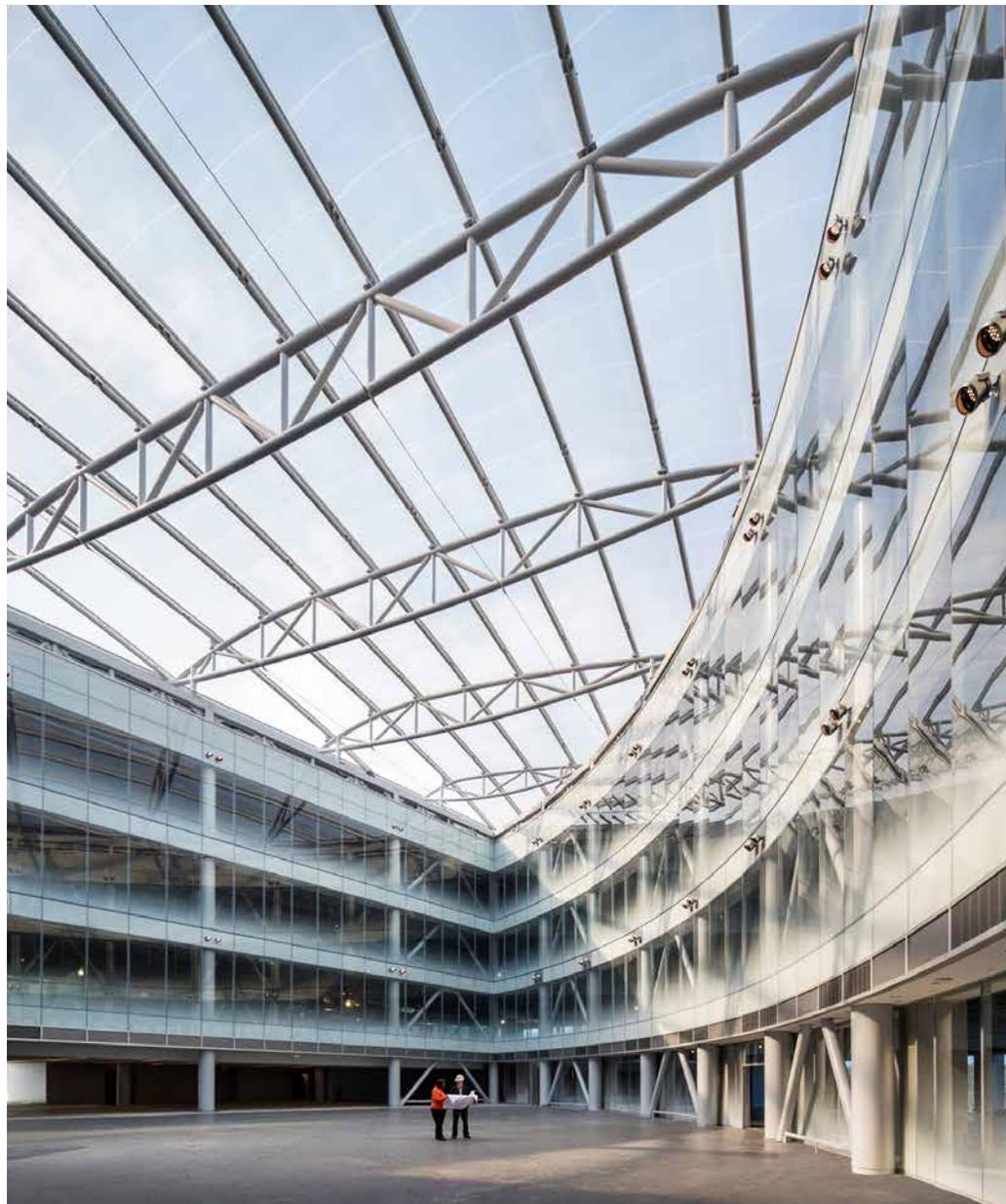
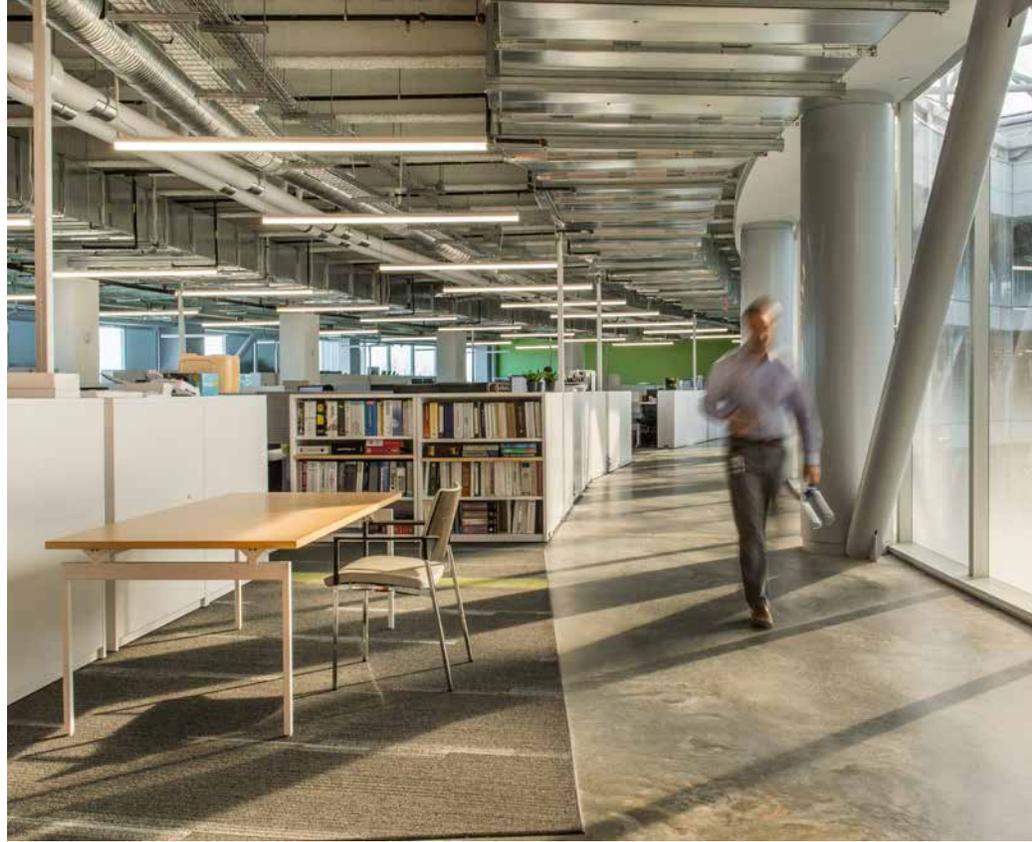
/ SUNY Polytechnic Institute Albany, NY
Zero Energy Nanotechnology Building (ZEN)

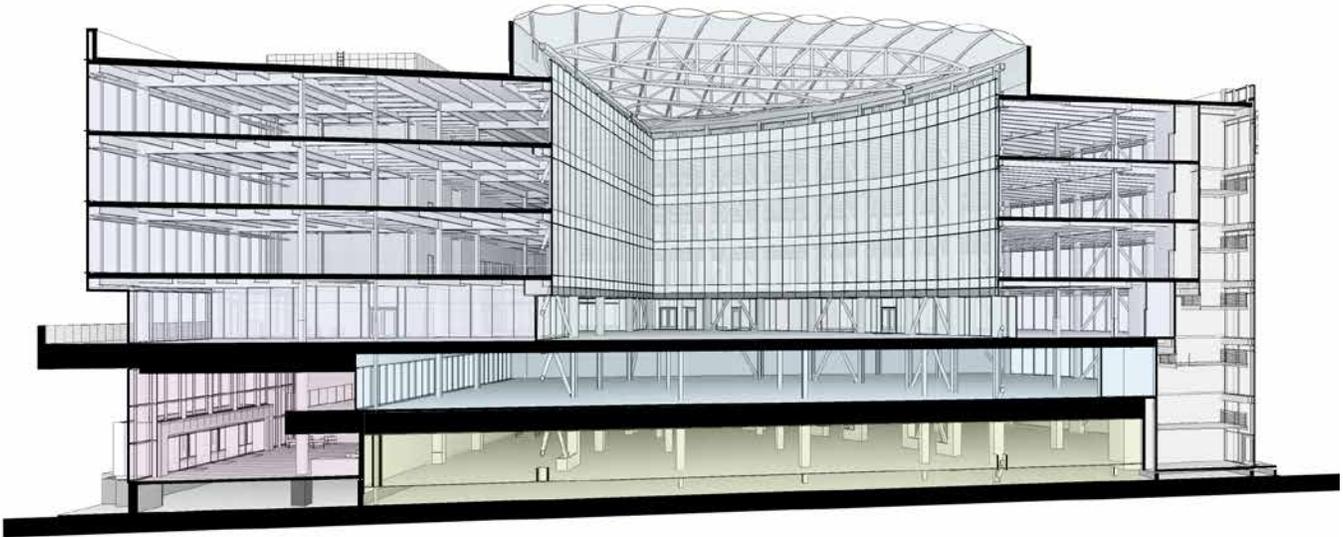


ZEN is the largest zero energy-capable, mixed-use building in the United States. A grant from the New York State Energy Research and Development Authority helped fund the analyses and design necessary for the building to approach net zero in such a way that ZEN could serve as a demonstration project. We served as design consultant for this design-build project.

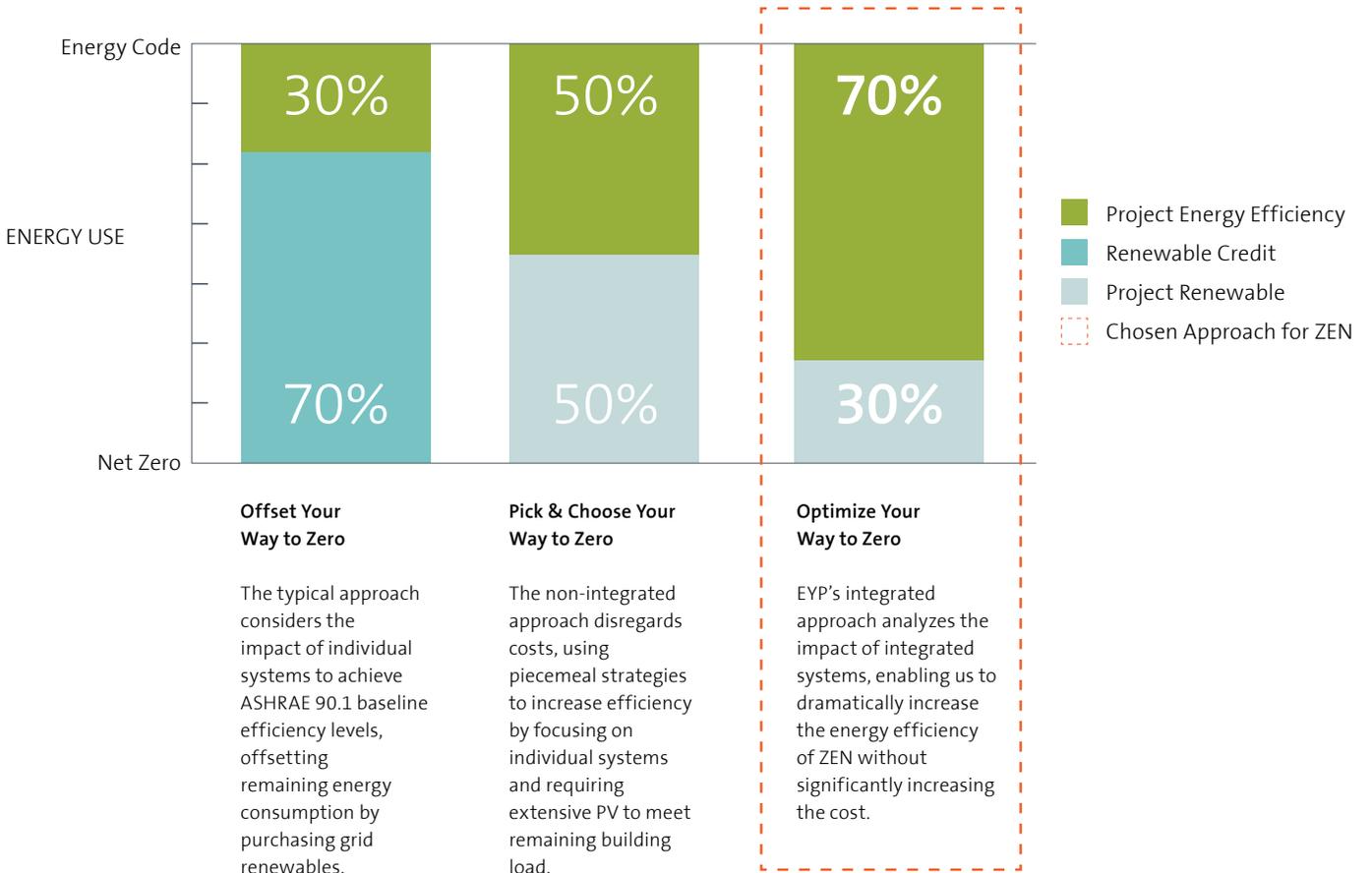
The ZEN building supports a wide range of R&D activities and includes office space for research partners in business and industry, as well as teaching and flexible research spaces for faculty and students. Beneath an ultra-light ETFE roof system, formal and informal collaboration and social spaces create a dynamic 10,000 GSF community hub. The atrium light well harvests daylight to offset 70% of the building's electrical consumption without adversely impacting building load.

- 360,000 GSF





Getting to Zero



/ capabilities

Architecture

- Design
- Planning
- Programming
- Interior Design
- Life Safety
- Signage & Wayfinding
- 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

Engineering

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

Software

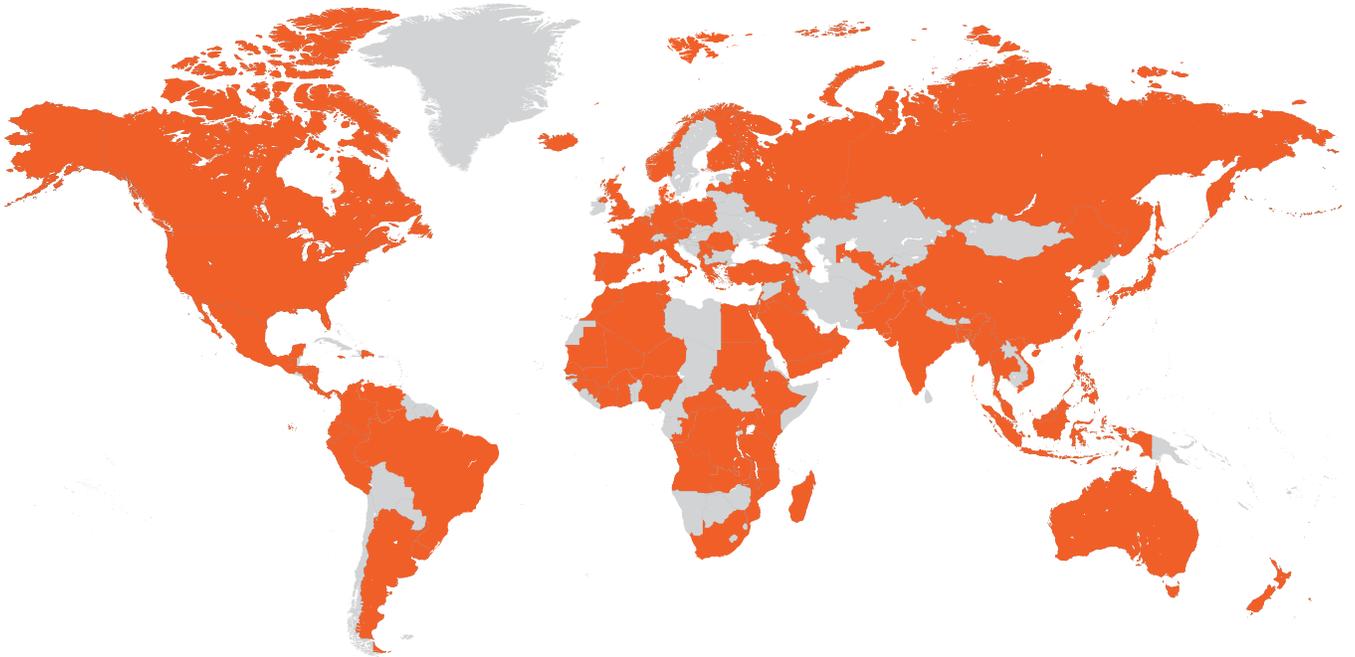
- B3 Benchmarking
- NEO Net Energy Optimizer®
- Custom tools with WeidtSim®

Consulting

- Graphic & Environmental Design
- Marketing Communications
- Public Relations

/ global reach

High-performance projects for clients in over 100 countries



/ science & technology client list

Boston College
Brookhaven National Laboratory
CalTech
Columbia University Medical Center
Cornell University
East Carolina University
Emory University
Gateway University Research Park
General Electric Company
Genzyme Corporation
Georgetown University
Houston Methodist Hospital System
The Jackson Laboratory
James Madison University
Massachusetts Institute of Technology
MD Anderson Cancer Center
Mississippi State University
Morocco University of Science & Technology
National Cancer Institute
National Oceanic & Atmospheric Administration
New York State Department of Health
New York State Office of General Services
New York State Energy Research & Development Authority
New York University
North Carolina A&T State University
Regeneron Pharmaceuticals
Rochester Institute of Technology
State University of New York at Farmingdale
SUNY Polytechnic Institute Colleges of Nanoscale Science and Engineering
Texas Heart Institute
United States Department of Agriculture
United States Army
University at Albany
University of Chicago
University of Florida
University of Maryland
University of New Mexico
University of Pennsylvania
University of Southern California
University of Texas Health Science Center
Virginia Tech



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