CANNONDESIGN

Higher Education Qualifications

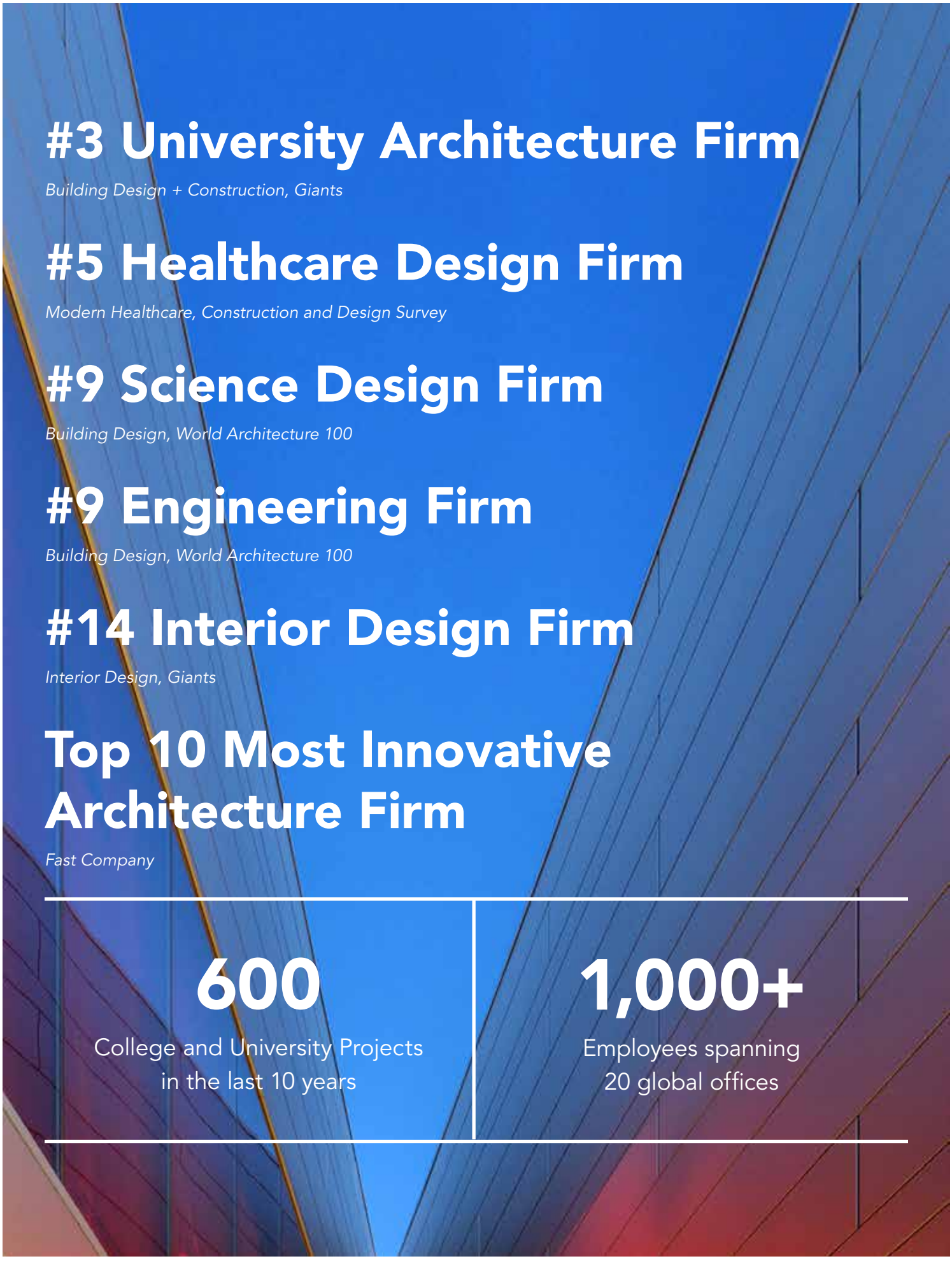
CONTENTS

1

FIRM INTRODUCTION

CannonDesign is an integrated global design firm focused on designing solutions to the greatest challenges facing our clients and society. We've done this for more than a century — helping organizations around the world achieve performance goals, drive innovation, strengthen their identities and profoundly impact the human experience. In 2017, Fast Company named CannonDesign one of the 10 most innovative architecture firms in the world.

Most importantly, we practice design because we wholeheartedly believe it can make the world a better place. Not just a more beautiful place, but a smarter, more sustainable, equitable and inspiring place. That's why each one of our team members joined the profession in the first place — to use their creative impulses, imaginations, experiences and talents to design new futures we can all be proud of.



#3 University Architecture Firm

Building Design + Construction, Giants

#5 Healthcare Design Firm

Modern Healthcare, Construction and Design Survey

#9 Science Design Firm

Building Design, World Architecture 100

#9 Engineering Firm

Building Design, World Architecture 100

#14 Interior Design Firm

Interior Design, Giants

Top 10 Most Innovative Architecture Firm

Fast Company

600

College and University Projects in the last 10 years

1,000+

Employees spanning 20 global offices

Designing for the Future of Education

Generational shifts, new technologies, and an influx of new learning models are shaking up the role of educators and learning environments. As one of the leading education design firms in the world, we've helped some of the most respected colleges and universities navigate through these changes and evolve their approaches to teaching, student engagement, campus development, facility design and more. Every day, our architects, engineers, experiential designers and education thought leaders not only explore new futures in education, but design and build the solutions that let them unfold.

Our integrated services span the full lifecycle of an organization's transformation — allowing us to help clients develop new strategies for their future, and design and build the solutions to get there.

Architecture

Consulting & Planning

- Change Management
- Equipment Planning & Procurement
- Experiential Design
- Master Planning
- Operations Design
- Predictive Analytics
- Space Programming
- Transition Planning
- Workplace Strategy

Construction Delivery Services

- Construction Management
- Cost Estimating
- In-house Design-Build
- Modular Design and Construction
- Pre-construction Services
- Program Management
- Public-private Partnerships

Engineering

- Commissioning
- Electrical
- Mechanical
- Structural
- Plumbing
- Technology

Environmental Graphics

Facility Optimization

Interior Design

Lighting Design

Sustainable & Resilient Design

AMONG OUR CLIENTS

A.T. Still University

Arizona State University

Boston College

Boston University

California Baptist University

California Institute of Technology

California Polytechnic State University

California State University

Canisius College

Carnegie Mellon University

Coppin State University

DePaul University

Dickinson College

George Mason University

Georgetown University

Indiana University of Pennsylvania

Johns Hopkins University

Kean University

Loma Linda University

Louisiana State University

McGill University

Michigan State University-Grand Rapids

Missouri State University

Montclair State University

North Dakota State University

Northern Arizona University

Northern Kentucky University

Northwestern University

Nova Southeastern University

Oklahoma State University

Rutgers University

Saint Louis University

San Diego State University

School of the Art Institute of Chicago

Simmons College

South Dakota State University

Southern Illinois University Edwardsville

St. Bonaventure University

St. John's University

St. Louis College of Pharmacy

State University of New York

Texas A&M University

Texas Christian University

The George Washington University

Tufts University

University of Arkansas at Fayetteville

University of California

University of Central Florida

University of Chicago

University of Colorado Boulder

University of Florida

University of Illinois

University of Kansas

University of Louisville

University of Michigan

University of Minnesota

University of Mississippi

University of Missouri System

University of Southern California

University of Texas Brownsville

University of the District of Columbia

University of Utah

University of Vermont

University of Virginia

University of Wisconsin-Whitewater

Utah Valley University

Virginia State University

Virginia Tech

Washington University in St. Louis

Webster University

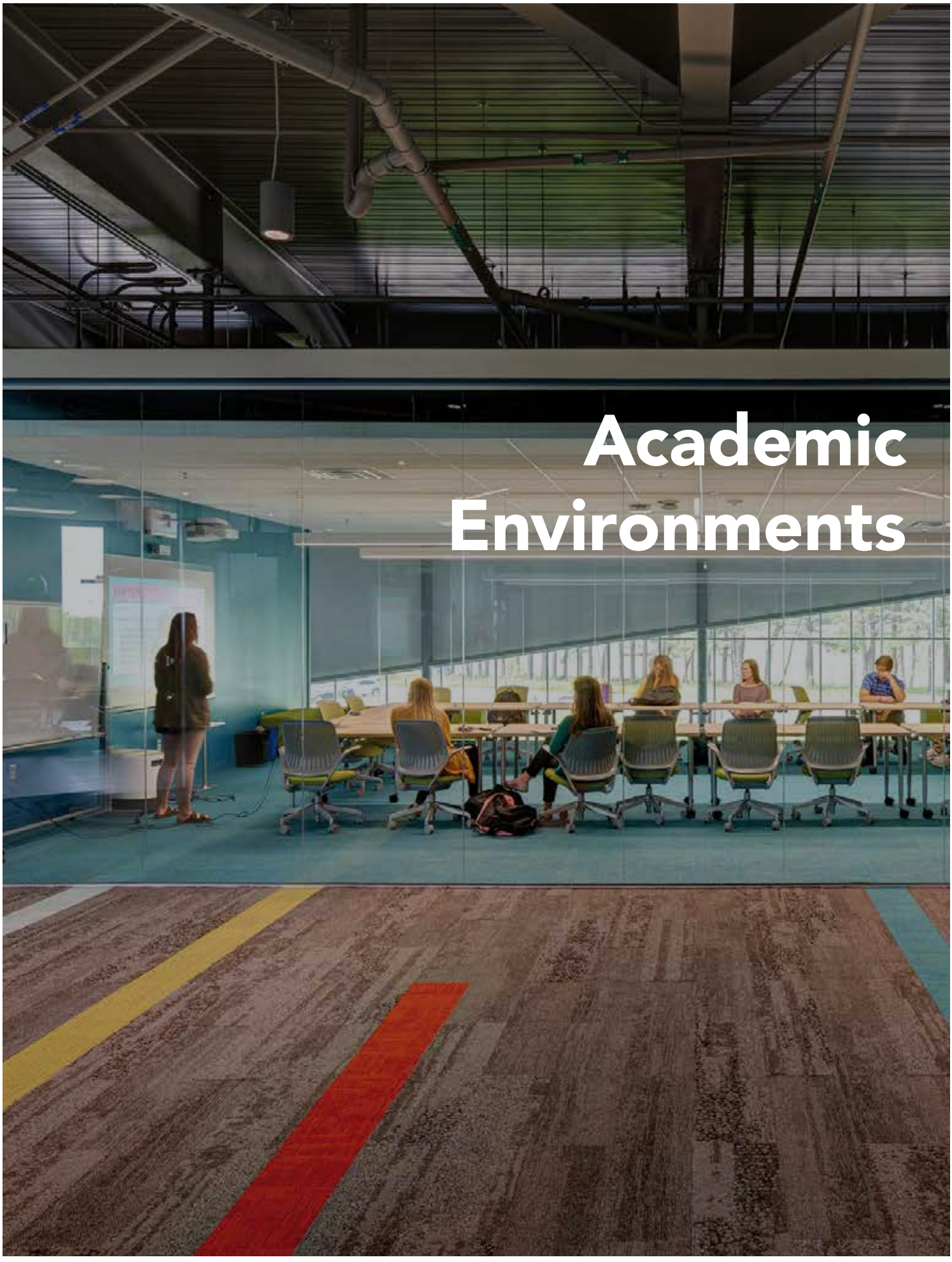
Western Michigan University

Worcester Polytechnic Institute

Yale University

2

EXPERIENCE



Academic Environments

Restoring a Historic Building for 21st Century Learning

University of Illinois at Urbana-Champaign
Lincoln Hall

Most students at the University of Illinois at Urbana-Champaign eventually attend a class in Lincoln Hall, a century-old building prominently located on the Quad. A recent LEED Platinum renovation of Lincoln Hall has improved energy efficiency, streamlined circulation, increased usable space, and enhanced the learning environment, all while protecting the building's early-20th-century architectural flair. Building systems, including HVAC, lighting, and flooring, were retrofitted for greater energy efficiency, and original features were restored or reused whenever possible. An elaborately accented theater and the cavernous Memorial Hall were restored to their original luster, including gold-foil ceiling accoutrements and Greek-inspired wall designs discovered under multiple paint layers.

The interiors of the four-story building have been opened up and reorganized, yielding significantly more usable space, simplifying wayfinding, and eliminating feelings of isolation. Classrooms on the first floor were entirely reworked with modern audiovisual systems and seating configurations, while retaining original wood doors and other accents. Upgrades to the theater's cable mechanisms, which once took up portions of all four floors, created new third- and fourth-floor space that was retrofitted for classrooms, offices, and research areas. Skylights have transformed the fourth floor from a dark, cluttered storage space into a well-lighted work environment containing office cubicles and private student-advising rooms. A new three-story glass vestibule jutting from the building's east side toward the interior courtyard gives every floor a sunny lounge area with views of the two refurbished courtyards. In association with Bailey Edward.

DATA

- Urbana-Champaign, Illinois
- 160,000 sf renovation; 6,000 sf addition
- 2012
- Planning, Programming, Architecture, Interiors, Structural Engineering
- LEED Platinum

AWARDS

Frank Lloyd Wright Award, Citation of Merit, AIA Illinois Chapter, 2015

Bronze Award of Honor, Society of American Registered Architects (SARA), New York, 2013

Citation, Renovation/ Modernization, American School and University, Architectural Portfolio, 2013

Merit Award, Association of Licensed Architects, 2013

Collaborative Environment Dedicated to Community

Adler University of Professional Psychology

Adler's culture–one focusing on collaboration, interactive learning opportunities, technology-based facilities, and a strong sense of school community–was a driving force behind its facility design. With a 710–person student body projected to grow to 1,300, Adler required a new learning environment to support this growth and recruit new students. A two floor urban campus, Adler used two distinctive atrium spaces to connect social, work and academic areas and create a sense of community. The plan located classrooms and work areas along the perimeter of the space, giving students and faculty access to skyline views and natural daylight. Smart classrooms, connecting pathways and an energizing environmental graphics program created a unique physical environment supporting Adler's inclusive culture.

DATA

- Chicago, Illinois
- 100,000 sf
- 2010
- Planning, Programming, Architecture, Interiors, MEP Engineering, Structural Engineering
- LEED Gold

AWARDS

Green Good Design, Green Architecture, The Chicago Athenaeum: Museum of Architecture and Design, 2012

Citation for Renovation/ Modernization, American School and University, 2011

Merit Award, Buildings, Project Innovations, 2011

"The space reflects our fundamental belief that great practice results from progressive, inclusive and rule-breaking dialogue and collaboration."

Dr. Raymond Crossman, President, Adler University

Creates a New Campus Identity

St. Louis College of Pharmacy
Academic & Research Building

The five-acre campus of St. Louis College of Pharmacy (STLCOP) is surrounded by densely developed city blocks and a renowned medical community that includes Washington University in St. Louis and Barnes-Jewish Hospital. Despite its simple arrangement of five buildings around a central green, first-time visitors had difficulty locating the entrance to STLCOP and distinguishing the campus from its surroundings. To address this problem and other needs articulated in the college's strategic plan, CannonDesign developed a comprehensive campus master plan that included a wide range of facilities, including academic classrooms, new interdisciplinary research labs, a library-of-the-future, a student center, a residence hall, and an athletic and recreation center.

Phase 1 of the resulting campus development is a 213,000 sf, six-story academic building that gives the college a new "front door." The building includes a large auditorium, variously sized classrooms, study areas, 30,000 sf of research space, a library, and a welcome center for prospective students. With a six-story façade extending along a major thoroughfare, the impressive, largely glass building transforms the STLCOP campus from a "hidden gem" to a highly visible presence in St. Louis's Central West End.

DATA

- St. Louis, Missouri
- 213,000 sf
- 2015
- Programming, Planning, Architecture, MEP Engineering, Structural Engineering
- LEED certified

AWARDS

Award of Merit, Higher Education, Engineering-News Record, Midwest, 2016

Architecture Honor Award, AIA Central States, 2015

Merit Award for Architecture, American Institute of Architects, St. Louis, 2015

"From the completion of the college's campus master plan to the construction of our new academic and research building, CannonDesign's work has been outstanding. My interactions and those of my staff with the CannonDesign staff have been team-oriented, positive and always professional. Most importantly, our projects have been on-time and on-budget."

John A. Pieper, Pharm.D., President, St. Louis College of Pharmacy

Toward the Academy of Tomorrow – A Campus Vision for Learning

Texas Christian University
Rees-Jones Hall

Rees-Jones Hall (RJH) at Texas Christian University is an interdisciplinary incubator facility at the heart of the East Campus Quad. It is built on the premise that learning and knowledge acquisition continually changes, grows and transforms. Building on the TCU premise of creating the Academy of Tomorrow, which is not solely a place but rather a philosophy of learning, RJH is neutral ground to foster interdisciplinary thinking, innovation and experimentation. The project is the first such facility that is not dedicated to a single department or school, allowing it to be truly cross-disciplinary with interactive classrooms, 24-hour student study spaces, collaborative group rooms, global seminar rooms and faculty offices.

An incubator lab space, the "Ideas Factory," promotes entrepreneurial activities and academic enrichment.

Rees-Jones Hall is one of over 30 projects on the campus by CannonDesign, where we have been privileged to advise, imagine and design in partnership with TCU throughout an unprecedented $750 million campus renewal effort. Working closely with campus leadership, these projects contribute to the integrated vision of architectural and academic excellence articulated by the chancellor and trustees. In RJH's lobby, a transparent, interactive display wall engages, inspires guests, promotes learning and further strengthens the TCU brand through media experiences that link the university's academic community to the awareness and study of important global challenges. In association with Hahnfeld Hoffer Stanford.

DATA

- Fort Worth, Texas
- 60,000 sf
- 2014
- Architecture, Environmental Graphics, Interior Design


By 2045, global population is projected to reach
9,000,000,000


AGUA
KNOWLEDGE IS FREEDOM

Creating a Cross-Platform Paradigm for Digital Scholarship

Montclair State University
School of Communication and Media

Montclair State University's School of Communication and Media is designed to break down the silos of traditional media-print, film, broadcast, and radio-to create a truly cross-platform media and communication curriculum. The 85,000 sf, $35 million project will help the university launch an interdisciplinary degree in communication and media arts and a multi-platform journalism concentration within the television and digital media major. It will also help redefine the university's arts and sciences quad, strengthen connections among industry partners, students, and alumni, and facilitate an ambitious effort to partner with top media brands throughout the tri-state area, including creation of professional news bureaus on campus.

The new building will be equipped with state-of-the-art multimedia laboratories, including a leading-edge, multi-platform "newsroom of the future." Other key program spaces include a 150-seat lecture hall, a radio station, an integrated media lab, a focus group room, a human factors room, screening rooms, classrooms, a sound stage and post-production rooms.

DATA

- Montclair, New Jersey
- 55,000 sf addition; 30,000 sf renovation
- 2017
- Programming, Planning, Architecture, Interior Design, Environmental Graphics
- LEED Silver, registered


SCHOOL OF
AND MEDIA

Design that Encourages Transparency, Collaboration and Connection

St. John's University
Peter J. Tobin College of Business

The 65,600 sf renovation of Bent Hall for the new home of the Tobin College of Business is guided by three important themes: Transparency, Collaboration, and Connection. We want to open up the spaces within the school and make it feel as open and transparent as possible. There are many exciting things happening in various spaces all over the school. To create a vibrant and lively space many of the classrooms, specialty labs, and offices have glass fronts to provide views in and encourage new connections and collaboration amongst different groups within the College.

Group study, teamwork and collaboration have become central to 21st century business education. For that collaboration to happen it is important to provide a variety of individual and group study areas where this kind of collaboration can take place. The renovation plans are filled with these kinds of spaces and all of them take advantage of natural light and views, making them highly functional and inviting.

The new layout of the Tobin College of Business is designed to better connect all of the elements of the College. The new arrangement of classrooms, offices and administrative groups will foster stronger student to student, student to faculty, and faculty to faculty connections; it will be easier for all of the people using the new space to find each other and to collaborate productively in the building. The new design will provide a quality of space that will result in people spending more time in the building and will also help attract alumni and local businesses to help build a sense of community and common purpose that is the foundation of any strong Business School.

DATA

- Queens, New York
- 65,600 sf
- 2017
- Programming, Planning, Architecture, Interior Design, MEP Engineering


TARGET
TGT
52.59
Time Warner
VISA
Walgreens Boots Alliance

Connecting the Classroom to Enterprise

University of Missouri – St. Louis
College of Business Administration

The new home for the College of Business Administration at the University of Missouri – St. Louis (UMSL) consolidates multiple business departments now spread over five facilities in one location, providing a home-base for all 2,800 business students and a welcoming place for the region's business community to gather. UMSL is the only university in the nation with a headquarters for a corporation in the top 25 of the Fortune 500 to be located on campus.

The project recognizes the integration of business and technology and the connection of classroom to enterprise, enhancing the synergy between academic and experiential learning that can prepare students to lead effectively in today's ever-changing society.

The project includes seminar rooms, group-learning environments, a trading room, faculty offices, advising centers and a professional education space dedicated to outreach to the local business community. In addition to providing architectural design for the project, the firm also provided technology design services for the state-of-the-art telecommunication, security, and audio-visual systems. The new trading room, with its video and LED technologies will be a campus showpiece visible to passers-by. In association with Grice Group Architects.

DATA

- St. Louis, Missouri
- 51,000 sf
- 2017
- Programming, Planning, Architecture, Structural Engineering, MEP Engineering, A/V Design, FF&E
- LEED Silver, registered


NY MELLON
0.40
BLK
BLACK ROCK INC
466.60
5.60
BMY.N
BRISTOL MYERS SQ
61.99
0.59

A Vision for Collaboration and Innovation in Teaching

Texas Christian University
Neeley School of Business Expansion and Renovation

The Neeley School of Business links a new building — the Spencer and Marlene Hays Business Commons — with two existing buildings that are being renovated to provide flexible and inventive teaching environments as an integrated whole. The project stems from the school's goals to solidify its position as a premier global business school and business hub for North Texas.

The Neeley School will anchor the Intellectual Commons – the academic core of the campus – and is designed to spur innovation and the creation of new ideas. The multi-phase project includes east and south wings, a central atrium, an office complex, auditorium and interactive classrooms around a landscaped business quad. Exterior and interior elements strike a balance between contemporary design and the design traditions of TCU. Features include a high-technology "Bloomberg room" as well as well-appointed recruitment facilities. Workplace strategies were employed to ensure maximum collaboration and space utilization in student and faculty office environments. In association with Hahnfeld Hoffer Stanford.

DATA

- Fort Worth, Texas
- 117,000 sf addition; 106,600 sf renovation
- Est. 2019
- Master Planning, Architecture, Cost Estimating

Medical Education Environments

Real-world Settings Facilitate Student Education, Research and Treatment

Missouri State University
O'Reilly Clinical Health Sciences Center

The new teaching and learning facility is the third of a trio of buildings serving the College of Health and Human Services, creating a micro-campus within MSU's broader expanse. Comprised of undergraduate and graduate curriculum in occupational therapy, nursing, nurse anesthesia and physician assistant studies, with each requiring tailored classrooms, specialized skills labs and simulation labs, faculty offices and support spaces. An outpatient clinic located in an otherwise private academic building is designed to support the community at large while providing real-world clinical experience for students.

Collaborative spaces flow throughout the building – from the entry lobby and culminating in southern views toward the main campus. Collectively they connect teaching and simulation labs, and form community space that affords peer-to-peer learning. This interior pathway is characterized by a faceted wood ceiling that visually links all the social learning and collaborative spaces. The chiseled exterior responds to its neighboring buildings in the creation of this micro-campus, while affording appropriate daylighting and campus views from both open and closed environments.

DATA

- Springfield, Missouri
- 58,000 sf
- 2015
- Programming, Planning, Architecture Interior Design, Structural Engineering

AWARDS

- Merit Award, American Institute of Architects, St. Louis, 2017
- Merit Award, American Institute of Architects, Springfield, 2016

Exponentially Expanding a University's Interdisciplinary Science Programs

Webster University
Interdisciplinary Science Building

After Webster University's 2012 comprehensive master plan it was determined that in order to support greater academic collaboration and the region's growing science and technical industry, the University needed to construct an Interdisciplinary Science Building. CannonDesign was commissioned to provide planning and design services for this 87,800 square foot STEM (science, technology, engineering, and mathematics) building.

Working with students and faculty, CannonDesign created a building program that will triple the number of science labs on campus and house the departments of Anthropology and Sociology, Biological Sciences, International Language and Cultures, Nurse Anesthesia, Nursing, Psychology and the Institute of Human Rights. The building design promotes interdisciplinary collaboration amongst these disciplines that will now meet the expectations of students, faculty, and the mission and vision for the future of Webster University.

DATA

- St. Louis, Missouri
- 87,800 sf
- 2017
- Planning, Design
- LEED Silver, registered

AWARDS

First Place Honors, ASHRAE, St. Louis, 2018

Merit Award, American Institute of Architects, St. Louis, 2017

Supporting Health Education Problem-Based Learning for Underserved Population

City Colleges of Chicago
Malcolm X College

Recognizing a gap between the current market of qualified healthcare professionals and the projected 84,000 healthcare jobs set to come on-line in the Chicago region over the next decade, City Colleges of Chicago sought a dynamic learning environment that could help their students from across the city seize these opportunities.

The new School of Health Sciences achieves this goal, solidifying Malcolm X as a hub for diverse health sciences education. The 544,000 sf building provides state-of-the-art learning and support spaces focused on the hands-on training of allied health professionals for direct entry into the work force or matriculation to a four-year institution. The School of Health Sciences is housed in an 8-story tower able to accommodate up to 20,000 students. The facility includes leading-edge technologies and services, including: a mock hospital complete with operating and emergency rooms; Nursing, radiography, respiratory care and science labs; an ambulance for EMT simulations; a dental hygiene clinic to service the community and for student training; an exercise and sports sciences area with a 900-seat gymnasium and therapy pool; general academic classrooms; and assessment labs. Moody Nolan is the Architect of Record.

DATA

- Chicago, Illinois
- 544,000 sf
- 2016
- Planning, Design
- LEED Gold

AWARDS

Innovation by Design Award Finalist, Fast Company, 2017


1
2
3
Hill-Rom

"Operating Room of the Future" Supports Innovative Trauma Care Research

Cedars-Sinai Medical Center
OR 360 Simulation Laboratory

Built in 1984, 825 North San Vicente is a three-story, 10,000 sf building approved for conversion to medical use by the city of West Hollywood. Cedars-Sinai Medical Center commissioned CannonDesign to provide design services for the renovation of the building's three floors. In addition to a breast health center and an imaging department with MRI, ultrasound, bone density scanning, nuclear medicine, and general radiation, the renovation will accommodate a research group investigating the efficacy of new processes and technology in perioperative trauma care. Having mapped the state of trauma care at Cedars-Sinai, this multidisciplinary team of experts is developing and evaluating potential interventions aimed at measurably improving trauma care through innovations in communication, technology, workflow, and behaviors, with the goal of eventually disseminating best practices applicable to both civilian and military hospitals. In addition to a simulation OR suite to test the proposed trauma interventions, the research group's new space includes academic offices, flexible research areas, and collaborative shared spaces that facilitate interdisciplinary and creative interactions throughout the work day.

DATA

- Los Angeles, California
- 10,000 sf
- 2013
- Programming, Planning, Architecture

AWARDS

Innovation by Design Finalist, Fast Company, 2015

Interior Design Best of the Year Finalist, Interior Design Magazine, 2013

Design Award Winner — Healthcare, Southern California Development Forum, 2013

Preparing Medical Practitioners through Simulation

Texas Christian University
Annie Bass Building Addition and Renovation (School of Allied Health)

A key component of TCU's Academy of Tomorrow and Intellectual Commons precinct is the renovation and expansion of the Annie Bass building for the Harris College of Nursing and Health Sciences. The project includes the college's Academic Resource Center, as well as flexible format classroom spaces, group study areas, a multi-purpose large instructional space, faculty offices and a "healing garden."

Most significantly, the project expands the college's medical simulation capability with a wide range of high-fidelity simulation labs that provide students with a virtual clinical experience. A mock primary care clinic is complete with a main lobby and treatment rooms. Other simulation environments include hospital-like pediatric and maternity areas, and a task training room with equipment for practicing blood pressure readings, IV insertions and other fundamental nursing tasks. After simulations, students and supervisors meet in adjacent classrooms to process and discuss their simulation experiences. In association with Hahnfeld Hoffer Stanford.

DATA

- Fort Worth, Texas
- 36,000 sf addition; 45,000 sf renovation
- 2014
- Architecture, Interior Design, Environmental Graphics, Cost Estimating

Rethinking Medical Education: A Different Kind of School for a Different Kind of Student

Kaiser Permanente
School of Medicine

The School of Medicine is a 80,000 sf project that houses simulation, flex classrooms, cafeteria, lecture hall, small group learning with the idea of creating "the school of medicine as a laboratory". This approach will redefine medical education and the delivery of health care. It will prepare a new generation of physicians to influence positive change within the U.S. health care system. The school and its curriculum will not be bound by the legacy and traditions of established institutions, hindered by entrenched pedagogical systems. With this facility our client has the opportunity to advance its unique culture, teach its own future doctors, pioneer ground breaking educational paradigms, promote a hands-on learning environment characterized by a collaborative approach to care giving, and strengthen its dedication to the communities they serve.

DATA

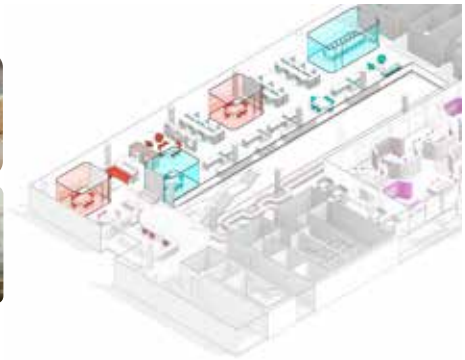
- Pasadena, California
- 80,000 sf
- Est. 2019
- Visioning, Programming, Architectural Design, Interior Design, Architect of Record

"Kaiser Permanente has been a catalyst for change in care delivery, and we will be a catalyst in medical education, through the opening of the Kaiser Permanente School of Medicine."

Edward Ellison, MD, National Kasier Permanente Leader and Executive Medical Director, Southern California Kaiser Permanente Medical Group

Closed Office Model

Open Office Model



Integrated Design for Forward-Looking Student Space

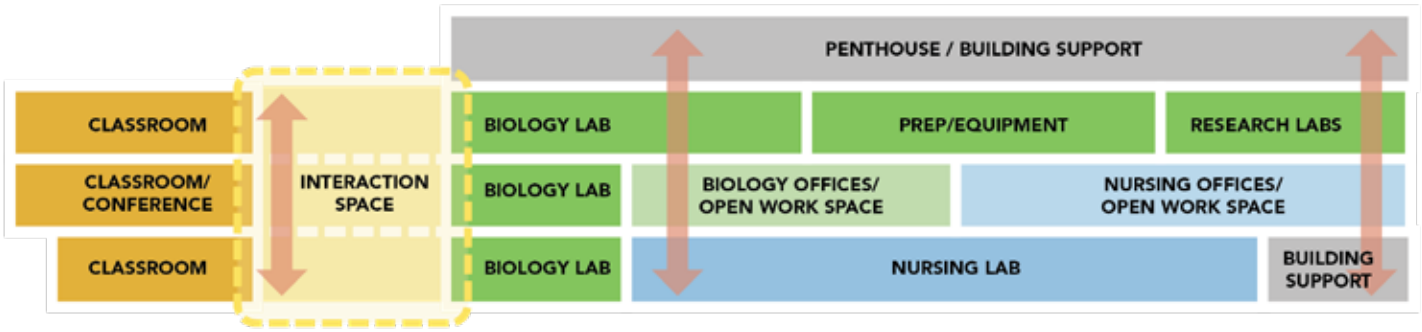
Purdue University Northwest
Bioscience Innovation Building

Purdue University-Northwest, a 167-acre campus located just outside Chicago, selected CannonDesign to lead programming, planning and design for their new 68,000 sf Bioscience Innovation Building. The facility will house skills labs, exam/assessment rooms, simulation rooms, student collaboration spaces, teaching labs, faculty offices, classroom spaces and become a beacon attracting students from across the campus and support the School of Nursing and Department of Biology. University leadership envision this new campus addition to be a striking symbol of forward looking student space supporting 21st century education.

The design of the instructional and student spaces is centred around the concept of creating a growth culture. As the new front door to campus, the Bioscience Innovation Building will attract students from all over campus. By putting biology and nursing skills labs adjacent to public spaces the BIB will provide non-science focused students glimpses into the day to day instruction and put science on display generating excitement for the two programs.

DATA

- Hammond, IN
- 68,000 sf
- Est. 2020
- Programming, Planning, Architecture, Interior Design


PENTHOUSE / BUILDING SUPPORT
CLASSROOM
CLASSROOM/ CONFERENCE
CLASSROOM
INTERACTION SPACE
BIOLOGY LAB
PREP/EQUIPMENT
RESEARCH LABS
BIOLOGY LAB
BIOLOGY OFFICES/ OPEN WORK SPACE
NURSING OFFICES/ OPEN WORK SPACE
BIOLOGY LAB
NURSING LAB
BUILDING SUPPORT

Putting Hands-On Technology in Classrooms to Reinforce Holistic, Patient-Centered Care

A.T. Still University
Interprofessional Education and School of Oral Health Building

A.T. Still University (ATSU), founded in 1892 as the first school of osteopathic medicine, commissioned CannonDesign to conduct a master plan study of the University's campuses in Mesa, Arizona and Kirksville, Missouri and to program and design a new 63,000 sf interprofessional education and dental school building on the Kirksville campus to house the new Missouri School of Dental and Oral Health.

Focused on educating 21st century healthcare professionals, the new building accommodates technology rich team based and project based learning. It includes flexible classrooms, simulation settings and break-out spaces for focused group learning. Generous open study space in the middle of the building promotes collaboration between medical students, dental students and faculty. Hands-on learning spaces for dental and oral heath students include a 65 station dental simulation clinic where 2nd year dental students learn and practice techniques on high-tech mannequin heads, a wet laboratory for learning molding technique and spaces equipped to learn imaging. In addition, a 15 room human patient simulation suite allows a wide variety of health care scenarios with full sized mannequins simulating real patient situations. The human patient simulation labs and accompanying briefing rooms are used extensively for trans-professional education among the school's various degree programs.

The building is clad primarily in brick, with a curved glass façade that showcases the dental simulation laboratory, optimizes views for faculty offices, and draws daylight into the building's core.

DATA

- Kirksville, Missouri
- 60,500 sf
- 2013
- Programming, Design, Structural, Interior Design, Cost Estimating
- LEED Certified

AWARDS

Honor Award for Architecture, American Institute of Architects, St. Louis, 2014

Facilitates Hands-On Learning

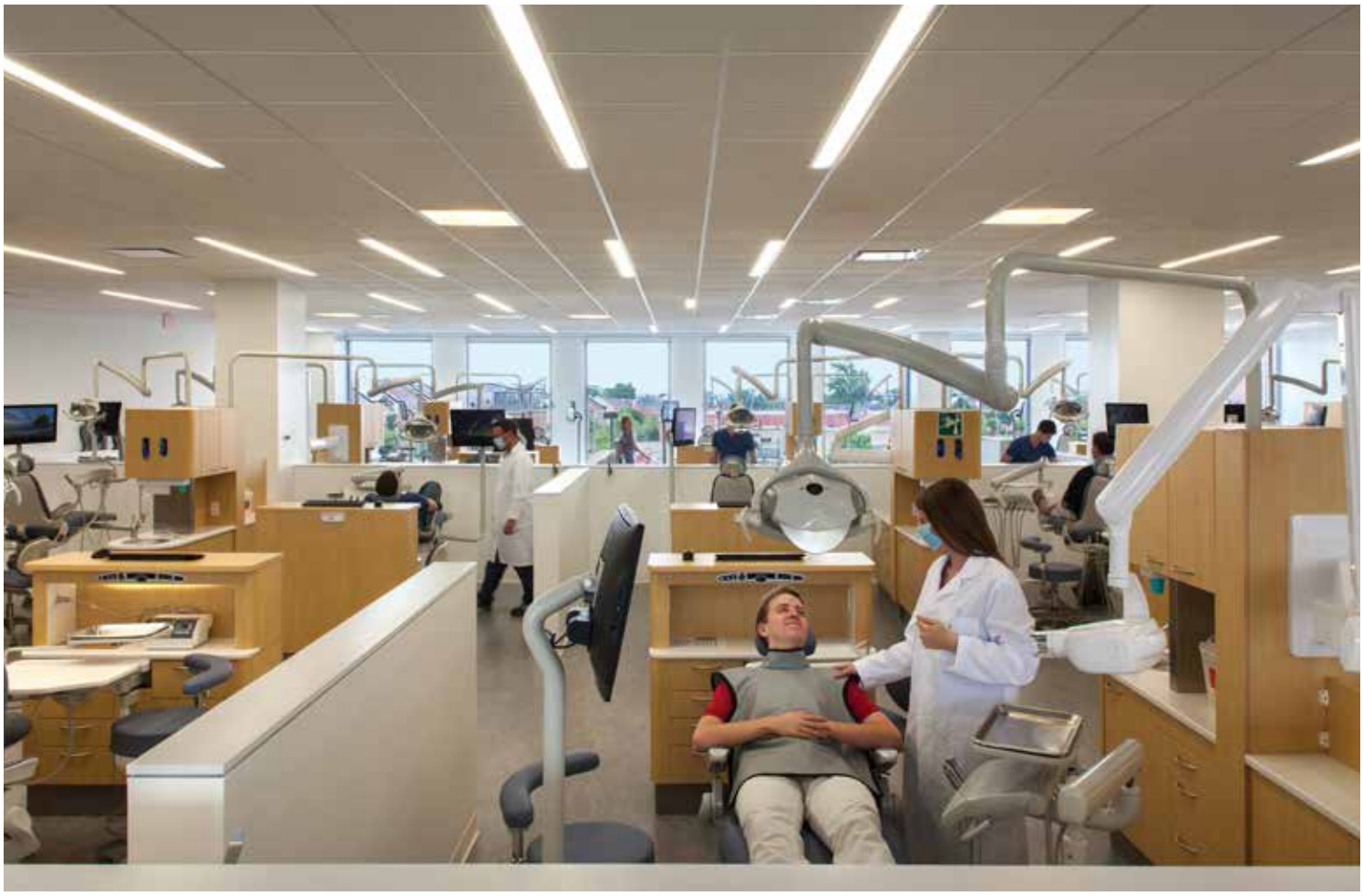
A.T. Still University
Dental Clinic

After completion of a 60,500 sf interprofessional education and dental school building, A.T. Still University (ATSU) commissioned CannonDesign to program and design a new 60,000 sf St. Louis Dental Clinic Building to house the Missouri School of Dental and Oral Health. The clinic incorporates operatories for 3rd and 4th year students to provide dental care to residents of the region, particularly uninsured or underinsured patients through a strategic partnership with Grace Hill. Standard operatories are supplemented with Urgent Care, Surgery Suites, Pediatric, Endodontic, and Special Needs operatories where the new clinic in St. Louis will provide holistic, multidisciplinary, patient-centered care. Additional spaces include generous waiting/registration rooms, clean sterile, dirty sterile, dispensary, a wet laboratory, imaging, locker rooms, and support spaces. The clinic occupies two stories of the building while the third floor will be shell space for future educational use fit-out.

The building is clad primarily in architectural precast with thin-brick and acid-etched finishes. Punched window openings along the façades will optimize views for patients while maximizing natural daylight color rendering desired for dental care. A major feature is a large, dividable multimedia classroom designed to facilitate team-based multidisciplinary education, with media infrastructure that enables instructors and individual teams to share and critique project solutions with the entire class.

DATA

- St. Louis, Missouri
- 60,000 sf
- 2015
- Programming, Design, Architecture, MEP Engineering



Science, Technology, Engineering & Mathematics (STEM)

Inspiring the Next Generation of Energy and Environmental Learning

University of Kansas
Earth, Energy and Environment Center

The new Earth, Energy and Environment Center (EEEC) will be a central rallying point for energy and environment research and teaching on campus. Located adjacent the existing Lindley Hall, at the corner of Naismith Drive and Jayhawk Boulevard, the building is a figurative and literal bridge between basic and applied sciences, institution and industry, and researchers and community – striving to transform traditional academic barriers and create a dynamic environment for research teams and students. In addition, its technology transfer and outreach center will provide a public face to KU's resources and expertise and link it to national and global industries.

The research activities within EEEC continues the building's theme of bridging past and future with the physical and historical aspects of rock core analysis combined with emerging high technology instrumentation and virtual reality. Technology is seamlessly integrated throughout the building, including the 'Edu-lobby'-showcasing sciences within, active-learning studio lab environments, visualization core facility and high performance computing labs. Adaptable research labs are focused on unconventional research within the fields of Geology and Engineering; including geo-microbiology; stable isotope geochemistry; chemistry of organic particles in unconventional hydrocarbon systems; Tertiary Oil Recovery Program for new technologies to improve fractured reservoir extraction. The open laboratory concept of shared use research platforms and transparency enable team-based research and develop new connections to industry while supporting inspiration for the next generation of students and discovery. In association with Gould Evans.

DATA

- Lawrence, Kansas
- 138,500 sf
- 2018
- Programming, Planning, Laboratory Design, Interior Architecture, Structural Engineering, Cost Estimating (thru SDs)

Optimizing the Scientific Workplace for Physics Research

Johns Hopkins University
Applied Physics Laboratory, Building 201

The Johns Hopkins University Applied Physics Laboratory Building 201 is a 263,000 GSF interdisciplinary research facility that will provide the Research and Exploratory Development Department with flexible, open laboratories in a highly collaborative, open workplace environment. Laboratories supporting electrical engineering, mechanical engineering, biological sciences/ engineering, microelectronics/microsystems and multifunctional materials and nanostructures are organized in a non-departmental, shared facility plan around a four story day lighted atrium that serves to socially integrate the entire research center in conjunction with generous unassigned collaborative spaces offering researchers many options for focused, informal and group work activities.

Re-envisioned as a standout piece of architecture defining higher expectations on campus, a three-story entrance plaza with a dramatic cantilever, supported by a field of columns, will serve as a gateway for the future campus extension and existing community. The plaza will lead to an exciting four-story atrium, which labs and workspace will be intertwined, reflecting the collaborative future of RED and APL. A network of bridges and stairs will weave collaborators and light alike between the teams. RED's mantra of "seeing what others have seen but thinking what no one has thought" has been demonstrated in architectural terms.

CannonDesign is currently providing complete A/E design services for the project, which is scheduled to be occupied in early 2020.

DATA

- Laurel, Maryland
- 263,000 sf
- Est. 2020
- Architecture, Interior Architecture, MEP/FP Engineering, Change Management, Workplace Strategy


JOHNS HOPKINS

Planning for an Unknown Future of Scientific Discovery

University of Wisconsin - Madison
College of Engineering Feasibility Study

The new University of Wisconsin – Madison Department of Chemical and Biological Engineering Building will be a facility supporting evolving science and engineering education and research in the century ahead. We live in an information age where wide spread dissemination of knowledge and the rapid pace of the innovation cycle requires agile buildings.

This 170,000 square foot facility sets out to support such an environment by providing research and teaching laboratories, active learning areas, and office spaces stitched together by central collaboration zones and transparent architecture, on both the interior and exterior. Connectivity of individuals and diverse sectors of research and industry, interacting in never-before-realized linkages, creating unique cultures in today's innovation environment. Over 683 undergraduate students and 47 principal investigator led research teams will interface and utilize this highly adaptive environment.

The design concept takes cues from faculty and student interest in a future certain to change. The building facade is a metaphor for the blending of influences, sciences, teams, and collaboration that is at the core of University of Wisconsin-Madison.

DATA

- Madison, Wisconsin
- 170,000 sf
- Study complete 2017
- Key programmatic spaces: Research Labs, Teaching Labs, Administrative, Classroom and Collaboration Spaces

Revolutionizing a University's Historic Lab Facility

Yale University
Sterling Chemistry Laboratory

Higher education facilities around the US are facing the challenge of aging labs inside existing buildings — some with historical value and importance to the campus fabric. Yale University's Sterling Chemistry Lab underwent a major transformation while preserving the exterior architecture of the historic building. Additionally, with an increased emphasis on improving STEM teaching at Yale, this renovation improves the university's capability to meet the demands of 21st century learning environments.

In a bold approach to sustainability and preservation, the design carves out the building interior, inserts state-of-the-art chemistry and biology labs and marries the new STEM environment with the existing building shell. Science is at the forefront of the design and is on display throughout, showing the student body and prospective students Yale's commitment to STEM education. This renovation helps the university enhance STEM teaching principles through collaborative learning spaces and hands-on approaches to science education. In addition to having led the renovation effort in association with HBRA Architects, we provided Yale University a full-service solution, from laboratory programming, planning and design development through construction.

DATA

- New Haven, Connecticut
- 157,800 sf renovation
- 2016
- Architecture, Laboratory Programming, Sustainability Services, Commissioning, Structural Engineering
- LEED Gold

AWARDS

Section Award, Illuminating Engineering Society, Boston, 2017

Upholding a University's Commitment to Science Excellence and Sustainability

State University of New York at Oswego
Richard Shineman Center for Innovation

State University of New York College at Oswego commissioned CannonDesign to provide planning, design, and environmental graphics services for a 230,000 sf building consisting of approximately 152,000 sf addition and renovation providing state-of-the-art classrooms, teaching and research laboratories, and interaction spaces for the college's biology, chemistry, earth science, mathematics, physics, computer science, and electrical engineering departments. The new facility also features a planetarium, meteorology observatory, and greenhouse. An academic commons extends the academic spine to the School of Education's Wilbur Hall and incorporates an atrium, café, and connecting walkway. The project revitalizes the sciences' image at SUNY Oswego while harmonizing with the campus vernacular.

Designed to foster interdisciplinary interaction and dissolve departmental limitations, the open, appealing venue accentuates visibility of academic and research activities, encourages informal gatherings, and celebrates the beautiful and prominent site on Lake Ontario's south shore by opening views to the lake on the north and carefully screening sun exposures on the south.

DATA

- Oswego, New York
- 152,000 sf addition; 78,000 sf renovation
- 2013
- Master Planning, Architecture, Commissioning, MEP Engineering, Construction Management, Facilities Optimization
- LEED Gold


RICHARD S. SHIREMAN CENTER

New Center Encourages Cross Departmental Collaboration

Coppin State University
Science and Technology Center

Housing the department of math and computer science and the department of natural sciences, Coppin State University's new Science and Technology Center encourages faculty and students from different science departments to collaborate on projects that cross traditional departmental boundaries. All labs and classrooms are designed for collaborative project teams of two to eight people to work together as part of the daily learning experience. The building also houses a small animal vivarium, advanced undergraduate research space, and the information technology department, which supports the entire campus and the primary data center. General classrooms and computer labs for campuswide use are included on the lower level. The entry level is active and vibrant, with exhibit space and a 100-seat lecture hall.

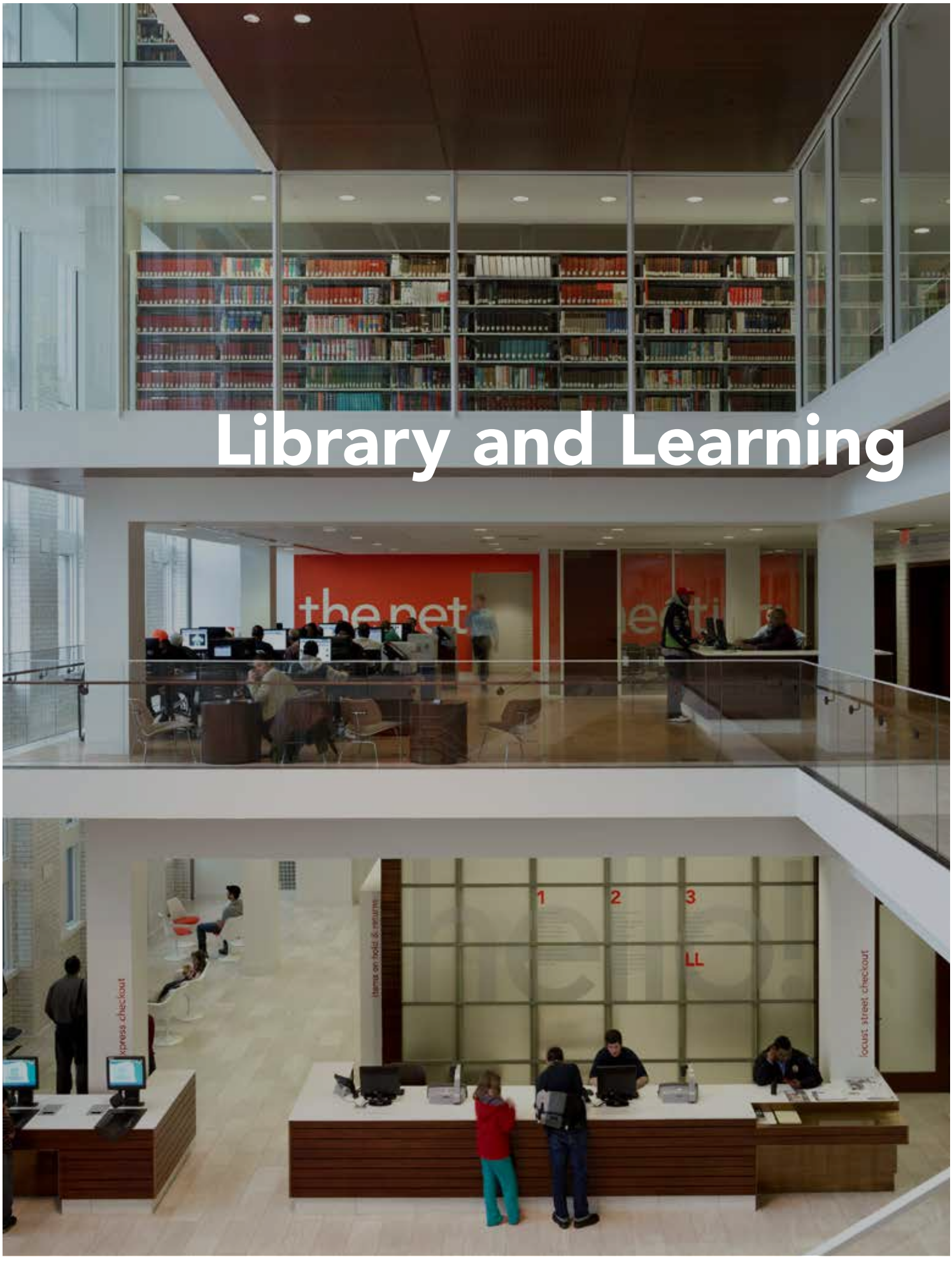
The four-story, 150,000 sf building is sited and massed to create a dramatic presence on North Avenue, with a dramatic stair tower to the north and a glass building element floating over the main building entrance that glows at night and reveals activity in science professors' offices. Lab and support "bars" are gently bent and manipulated to define interior collaboration zones and increase the building's dynamic presence. A series of smaller two-story spaces give presence to the inner collaboration spaces, draw in daylight, and take advantage of dramatic views to the south and west.

DATA

- Baltimore, Maryland
- 150,000 sf
- 2015
- Master Planning, Architecture, Engineering
- LEED Gold

AWARDS

Institutional Project of Merit Award, American Institute of Architects, Maryland, 2016



Library and Learning

Revitalizing an Iconic Landmark

St. Louis Public Library
Central Library Renovation

Designed and built in 1912 by Cass Gilbert, St. Louis's Central Library displays the grandeur typical of the era, with facades of rusticated Maine granite, a monumental entrance, a front colossal arcade adorned with contrasting marble bas-relief panels, and an oval central pavilion surrounded by four light courts. However, adapting the library's grand structure to its role as a 21st-century community information center has been a struggle. CannonDesign won the national competition to create the final design for the historic renovation.

The $55 million renovation and restoration updates the library's research and service capabilities while restoring the grandeur of many of the library's historic rooms. By converting many spaces formerly devoted to staff and support functions into technology information access areas serving the community, the renovation nearly doubles the square footage available to patrons, creating a new 250-seat auditorium and exhibit area, an expanded children's area, and new areas for adult users, including a Center for the Reader that expands access to popular, heavily circulated materials. Infrastructure updates include a new computer technology center and training room, computer "discovery windows," and wireless Internet. New compact shelving triples the capacity of the library's north-wing stacks.

"I have worked with many different architectural firms in my career, but I have never had as positive an experience in every stage of a project from design through construction and follow-up as I have with CannonDesign through this enormous undertaking."

Waller McGuire, Executive Director

DATA

- St. Louis, Missouri
- 185,000 sf
- 2012
- Architecture, Interior Design, Library Planning, Cost Estimating

AWARDS

Institute Honor Award, American Institute of Architects, 2014

Honor Award, International Interior Design Association (IIDA) Library Design Awards, 2014

Library Building Honor Award, American Institute of Architects/ American Library Association, 2013

People's Choice Award – Library Category, Architizer A+ Awards, 2012

National Preservation Honor Award, National Trust for Historic Preservation, 2012

Reconstruction Award, Building Design + Construction Magazine, 2012


DREAM

Establishing a Vibrant Hub for Discovery

State University of New York College at Old Westbury Library/Academic Space Renovation

SUNY Old Westbury commissioned CannonDesign to provide programming, design, and construction administration services for the renovation of its library. Built in the early 1980s at the heart of the academic campus, the 77,000 sf building was no longer adequate to meet students' needs. CannonDesign undertook a planning process that established key challenges and opportunities, including expanding the range of seating types and creating collaborative study rooms, digital and analog media labs, and individual research spaces; accommodating library collection growth for the next 20 years; providing staff with sufficient space for student consultation and support; accommodating academic support programs; providing environmentally controlled, secure space for print storage; reinforcing the library's status as the campus's "academic heart"; and enhancing recruitment and retention.

To implement the team's recommendations, the phased renovation involved installation of high-density compact shelving, expansion and enhancement of library seating, and creation of enhanced collaboration areas, media-rich facilities, and growth space for special collections. Work was performed in several phases to keep the library open for students and users throughout. The resulting library is a coherent facility with well-considered connections to neighboring existing and future buildings.

DATA

- Old Westbury, New York
- 77,000 sf
- 2016
- Strategic Planning, Programming, Design, Interior Design, Environmental Graphics, Construction Services

Creating a Place for Reflection in Today's Culture

Kenrick-Glennon Seminary
Kenrick School of Theology

Kenrick-Glennon Seminary, the college and graduate school of theology for the St. Louis Catholic Archdiocese, is a landmark institution within the St. Louis area, archdiocese, and region. The seminary's Kenrick School of Theology is a four-year graduate and professional program that prepares men for ordination to the Roman Catholic priesthood. The seminary commissioned CannonDesign to provide full-service integrated architectural and engineering services for a $32 million program of improvements to the building housing the Kenrick School, a historically significant structure built in 1931. Work included a building addition, site improvements, roofing repair, window replacement, masonry restoration, MEPFP infrastructure updates, and extensive interior renovations, including much-needed improvements to classrooms, the library, faculty and administrative offices, meeting and lounge spaces, dining facilities, and student residences.

The renovation and expansion project was conceived as a collection of architectural moments, large and small, that are simultaneously traditional and modern, sensitively transforming space while respecting the building's architectural character. The addition, housing faculty offices, is a quiet composition of masonry and glass that delicately connects new and old while creating a new courtyard on level 1 and rooftop dining space on level 2. The library was expanded into an underutilized gymnasium to accommodate group meeting rooms and library stacks; a new mezzanine floats within the two-story space, linked vertically by a wood-wrapped stair to all library levels. A student recreation center was created by repurposing a neighboring power plant building, converting former laundry and maintenance functions to a loft-like lounge and an obsolete mechanical room to a fitness studio.

DATA

- St. Louis, Missouri
- 185,000 sf
- 2012
- Planning, Programming, Design, Architecture, MEPFP & Structural Engineering

AWARDS

Most Enhanced Award, Landmarks Association of St. Louis, 2013

Merit Award in Architecture, AIA St. Louis Chapter, 2013

Reviving the Heart of Campus

University of Virginia College at Wise
New Library

With a library unable to accommodate expansion of its print collection or properly serve a burgeoning student population, the University of Virginia's College at Wise commissioned CannonDesign to provide programming, planning, feasibility, and conceptual design services for a new library. CannonDesign subsequently provided design services for the 68,000 sf facility, which provides study, instructional, and multimedia resources for up to 3,000 students, academic support services, and ample space to accommodate the college's collection well into the future. Its central location, across the main campus walk from the college's student center, guarantees its status as a new heart of academic life. Located on the side of a 60-foot hill that separates the college's upper and lower campuses, it also provides a much-needed, direct, 24-hour vertical pathway between them.

To achieve this dual function as both library and campus link, the building has two vertical circulation cores, one providing access between the upper and lower campuses and one serving secure library areas. The vertical pathway between upper and lower campuses is outfitted with group-learning and study spaces that are accessible 24 hours a day, including lounge seating, small and large collaborative study rooms, and a small cafe. Entries to the six-story building occur on five separate levels. The main entry, on level four, connects the library to the upper campus and serves as the main entry to the library's secure zone. A primary staircase within the secure zone makes the building more "walkable" and helps orient patrons at all levels.

DATA

- Wise, Virginia
- 68,000 sf
- 2016
- Programming, Planning, Architecture, Interior Architecture, Cost Estimating
- LEED Certified

AWARDS

Architect of the Project of the Year, Associated General Contractors of TN, Tri-Cities Branch, 2016

The Library as the Academic Hub

Texas Christian University
Mary Couts Burnett Library

One of the first structures built on the Texas Christian University campus, the Mary Couts Burnett Library has grown along with the institution since opening its doors in 1924, doubling and redoubling in size with additions in 1954 and 1982. In 2009, the university commissioned CannonDesign to devise a master plan for another addition to the library to accommodate growth in the collection and meet current and future information technology needs. Following an initial evaluation of requirements, needs, and demand for the library's programs and features, planners established two central goals: to expand technology spaces and to double the number of seats to accommodate 25% of the academic community at any given time.

The expansion fulfills these goals on the library's constricted central-campus site while accommodating anticipated growth of the print collection. The renovation was enabled through the development of an off campus off-site storage facility housing 65% of print materials, that enabled existing areas to be converted into usable program areas. New areas include a new information commons with more than 200 computers and 80 laptops; a new two-story reading room that gives new presence to the building on University Drive; and space for graduate and faculty research and for growing academic programs, including the university's Center for Teaching Excellence, Writing Center, and Ideas Bistro. The expansion also enabled restoration of the historic 1924-vintage Gearhart Reading Room to its original glory. In association with Hahnfeld Hoffer & Stanford.

DATA

- Fort Worth, Texas
- 150,000 sf addition and renovation
- 2015
- Master Planning, Architecture, Interiors

"For several years CannonDesign has provided most of the architectural vision for our TCU campus - and the results have been spectacular. Visitors and potential students frequently praise the appearance of the campus - a significant factor in student recruitment."

Nowell Donovan, Academic Provost


KNOWLEDGE IS POWE


GIGA LAB

Performing Arts

Putting the Excitement of Theatre Education on Clear View

The Theatre School at DePaul University

The new home for DePaul University's renowned theater department houses a 250-seat thrust-configured studio theater, a 100-seat flexible black-box theater, scenery shops, rehearsal rooms, acting labs, costume and design studios, seminar and lecture rooms, faculty and administrative offices, and lobby and building support spaces. The building's floor-to-ceiling glass exterior establishes an aesthetic of transparency. Support spaces such as scenery shops and set designs are located on the ground floor behind this glass, exposing these typically hidden spaces to passersby and promoting curiosity about the mechanics of performance. The building achieved LEED Gold certification, exceeding its original Silver LEED target. In association with Pelli Clarke Pelli Architects.

DATA

- Chicago, Illinois
- 165,000 sf
- 2013
- Architect of Record, Commissioning, Environmental Graphics, Furniture Procurement
- LEED Gold

AWARDS

Honor Award, AIA Chicago Chapter, 2015

Owner's Choice Award, Chicago Building Congress Construction Owners Association of America, 2014

"Our new building allows us to connect with the profession in new and meaningful ways."

John Culbert, Dean of The Theatre School at DePaul University

Diverse Arts Programs Linked by Grand Lobby Space

Eastern Illinois University
Doudna Fine Arts Center

Having embarked on an ambitious program to broaden and enrich its educational programs, Eastern Illinois University commissioned CannonDesign, in association with Antoine Predock Architect, to provide planning, design, and documentation services for the Doudna Fine Arts Center, a unique educational environment for the university's art, music, and theatre arts departments. CannonDesign also selected and coordinated all furnishings, fixtures, and equipment.

Created through the $46.4 million rehabilitation and expansion of a building constructed in 1958, the 245,000 sf Center provides five performance venues: a 750-seat concert hall, a 225-seat recital hall, a 250-seat proscenium theatre, a 120-seat "black box" theatre, and a lecture hall, all with state-of-the-art acoustics and excellent sight lines. The concert hall features a larger, copper-finished orchestra shell that improves acoustics for performers; the recital hall, carved from a former drama theater, features an orchestra shell constructed of glass. The Center also provides new gallery and presentation space for graphic arts, sculpture, weaving, ceramics, and welding; music rehearsal space, private practice rooms, and ensemble practice rooms; and theater classroom space and support space consisting of a green room, makeup area, scene shop, and costume shop. A lobby linking all of the performance venues includes several corridor art galleries and anchors the Center as a truly communal space for students, faculty, and the larger community.

DATA

- Charleston, Illinois
- 81,000 sf renovation; 164,000 sf addition
- 2008
- Planning, Design, Construction Documentation, Interiors

Reclaiming Unusable Land to Unite a Split Campus

Onondaga Community College
Academic II Addition (Ferrante Hall)

A 40,000 sf, two-story, LEED Gold addition to Onondaga Community College's Ferrante Hall affirms the college's commitment to growing its arts programs, cultivating its music curricula, and enhancing the cultural environment both on campus and in the Syracuse community. Conceived as a teaching facility with outreach to community organizations in need of performance venues, the new building encourages an integrative approach to music by providing facilities for the entire music school, including administration, production, teaching, research, and support spaces. Features include a 150-seat music recital hall with 900 sf stage and chorus balcony, a music resource center, a 2,500 sf instrumental and choral rehearsal room seating up to 110 musicians, a 1,200 sf percussion rehearsal room, practice rooms of various sizes, 16 faculty teaching offices, and eight music-oriented smart classrooms. Contoured walls, an array of overhead reflectors, and variable-acoustic curtains maximize the recital hall's flexibility.

The Ferrante Hall addition also provides students and faculty with an indoor crossing for the Furnace Brook Gorge, a 60-foot-deep fissure dividing the campus previously spanned only by a bridge open to wind, rain, and snow. The narrow $18.9 million building crosses the gorge, connects the student center with an existing academic building, makes use of otherwise unusable land, ties together both sides of the campus, and makes frigid January bridge crossings a thing of the past. In association with C&S Companies.

DATA

- Syracuse, New York
- 45,000 sf
- 2013
- Planning, Architecture
- LEED Gold

AWARDS

Excelsior Award of Distinction for Public Architecture, American Institute of Architects, New York State, 2015

IDEAS2 Merit Award, American Institute of Steel Construction, 2014

Commercial Award, American Society of Interior Designers, Upstate NY/Canada East, 2014

National Design Award, Society of American Registered Architects, 2014

Honor Award, American Institute of Architects, Central States, 2013

Honor Award, American Institute of Architects, Buffalo/ Western New York, 2013

Refreshing a Performance and Teaching Venue for a World-Class Theatre Program

Northwestern University
Virginia Wadsworth Wirtz Center for the Performing Arts

The construction of the new Bienen School of Music on Northwestern University's campus created an opportunity to update other adjacent performance and teaching venues. To enhance the functionality of the existing building while upgrading and refreshing spaces, CannonDesign planned and designed renovations to select spaces in the Wirtz Center, housing the Departments of Theatre and Performance Studies and the Marjorie Ward Marshall Dance Center. Renovations include performance venues and teaching theatres, black box theatres, dance studio, production support facilities, set design studios and classrooms. An existing office suite was renovated for open and private staff offices and shared office support space.

DATA

- Evanston, Illinois
- 14,000 sf renovation, 7,700 sf addition
- 2017
- Programming, Planning, Architecture, Interiors, Engineering
- LEED Silver, registered

Student Life

LEED Platinum Aspirations for the Only Public Higher Education Institution in D.C.

University of the District of Columbia
Student Center

The University of the District of Columbia, Washington's only public higher-education institution, has catered chiefly to commuting students since its founding in 1977. Set back from the street and featuring utilitarian, sparsely windowed 1970s-era architecture, the university's campus is nondescript and easy to miss. A recent initiative to build a residential community on campus has led the university to focus on quality of campus life and on strengthening connection with the local neighborhood, which includes apartment buildings, office buildings, and retail. A new student center is a crucial ingredient in this renewal.

After winning a design competition that studied three proposed sites and schemes for the student center, CannonDesign was commissioned to provide planning, architectural, interior design, graphics, construction, and related services for the facility, the university's first major building project in more than a quarter-century. Sustainably designed, the project supports the university's global initiative for sustainable stewardship and is the first Student Center in Washington DC to be LEED Platinum certified.

This highly visible and accessible building will create a new gateway and public face for the university, engage and support students academically and socially, improve student retention, and integrate the campus with the neighborhood to create an urban community. In addition to spaces for student government, campus life, career services, and other student support functions, the building includes mixed-use retail, grab-and-go dining services, and a bookstore serving both the university and local residents. The building will also contain a 10,000 sf fitness and wellness center and a conference center and ballroom suitable for use by the wider community. In association with Marshall Moya Design.

DATA

- Washington DC
- 83,000 sf
- 2016
- Programming, Planning, Architecture
- LEED Platinum

AWARDS

Citation, Post-Secondary Education, American School & University Architectural Portfolio, 2016

Award of Merit, Higher Education, Engineering News Record, Mid-Atlantic, 2016


INNO
VATION
INTE
GRITY

Live/Work Residential Community Redefines Student Housing

University of Utah
Lassonde Residential Entrepreneurship Center

The Pierre Lassonde Entrepreneur Institute, at the University of Utah, is the largest entrepreneur center of its kind in the United States. To further support the Lassonde Institute's programs, the university commissioned CannonDesign, in association with EDA Architects, to program and design a 400-bed residential entrepreneurship institute that met two campus needs: the creation of a "student garage" - a flexible 20,000 sf making/planning-hacking space - and creation of student housing for 400 students ranging from freshman to graduate level.

Combining these two functions in one facility posed a unique opportunity to transform business education and the student experience. This living-learning environment supports entrepreneurial students by making learning a 24-7 endeavor, in an interactive, interdisciplinary, immersive milieu that engages a range of users, accommodates a diversity of activities, and fosters interdisciplinary and cross-disciplinary "mash-ups." Unlike many innovation centers, the building is designed to foster both digital and analog tinkering, going beyond the now-typical high-bay warehouse spaces with movable partitions to create a framework in which students interact and explore the physical and social relationships between design, human activity, and environment at varying scales. Multiple "home bases," public activity hubs, and more-secluded collaboration and shared-learning spaces create a balanced environment that is simultaneously jungle gym, laboratory, and entrepreneurial haven.

"Students living in the Lassonde Studios are finding connections with their peers, which is exactly what this building is about"

Barbara Remsburg, Director of Student Services, University of Utah

DATA

- Salt Lake City, Utah
- 161,000 gsf
- 2016
- Programming, Planning, Architecture
- 400 beds
- LEED Gold

AWARDS

Architectural Portfolio, Residence Hall, Citation Award American School & University, 2017

Excellence in Concrete Award American Concrete Institute (ACI) Intermountain Chapter, 2017

LEARN Category, Interior Design, Brilliantly Executed Spaces and Thinking (BEST) International Interior Design Association (IIDA), The Intermountain Chapter, 2017

The Sleeping Pod, Other Products Designs, Silver International Design Awards (IDA), 2014


CREATE

Creating a Blended Living/ Learning Environment

Minnesota State University, Mankato
Margaret Preska Residence Community

A new residence hall at Minnesota State University Mankato supports the university's strategic priorities for a sustainable, pedestrian-friendly campus and is integral to the university's planning goal of residence hall renewal. According to research by the University of Mankato, first-year and second-year students who live on campus perform better academically, but students often leave campus in their second year. By offering the privacy and enhanced amenities sought by upper-class students, the residence hall is anticipated to increase sophomore campus residency rates and enhance academic success.

Planning allows for 9 residential communities on the upper floors with the first floor dedicated to public functions and circulation to adjoining residence halls and dining. Energy efficient building systems, sustainable materials, reuse of the site, and low-flow plumbing fixtures support the university's sustainability goal and further reduce long-term operating expense. In association with Studio Five Architects.

DATA

- Mankato, Minnesota
- 105,000 sf
- 2012
- Programming, Planning, Architecture, Interiors
- 300 beds

Increasing Opportunity for Shared Living Learning Experiences

Pratt Institute
Residence Hall

The richest undergraduate college experiences are nurtured in communities where students can thrive in student-centered residential designs or configurations. Blending living, learning and social spaces advance campus' academic and residential missions and, in turn, increase the campus experience.

For Pratt Institute, Emerson Place – their newest residence hall – must leap beyond merely increasing capacity. CannonDesign's approach explores the complex identities in formation of today's student and addresses the social, economic and physical needs found within a first-year residential community. The Institute's students will engage in experiential learning and state-of-the art-technology spaces, which are needed in a leading art and design school, while also finding scales of privacy and community within their live/learn residential hall.

Designed as an innovative collaboration between CannonDesign, hMa Architects and the Institute, this project presents important opportunities for the social and intellectual development of the students and promotes a culture of invention and collaboration critical to Pratt's academic and societal mission.

DATA

- Brooklyn, New York
- 65,200 gsf
- Est. 2018
- Programming, Architecture, Interiors, Engineering, Technology, Cost Estimating
- 244 beds

Creating an Inviting Community Space for Students

University of Georgia
Russell Hall Renovation

Seeking to improve the student experience on campus in an existing asset, the University of Georgia engaged CannonDesign, in association with Menefee Architecture, to renovate Russell Hall. CannonDesign led the planning, programming and design for the 972 bed, 1967 mid-century modern, high-rise residence hall . The goal for the renovation is to improve the University's enrollment and retention by providing a sustainable, affordable and inviting community to improves academic success with an integrated academic center.

The renovations will restore the exterior envelope integrity and the original mid-century modern design, while also significantly enhancing the learning and living environments inside. The scope includes maintaining the bed count at 972 first-year beds by maximizing efficiencies and underutilized spaces within the buildings core. The new design provides private bathroom amenities, new FFE in the student rooms but most importantly revitalized | new community spaces such as floor kitchens, study space and living rooms, to increase collaboration and retention. Increased ADA accessibility is addressed with on suite accessible bathrooms as well as single occupancy bathroom in each residential wing. A complete update of the mechanical, electrical, plumbing, as well as window, elevator, and roof replacement have been provided. In support of academic success, the new Russell Academic Center, located on the first floor, will feature high-tech classrooms and quiet study space. Additional improvements include in-room temperature control and enhanced and updated lobby and laundry spaces.

DATA

- Athens, Georgia
- 230,000 gsf
- Est. 2018
- Planning, Programming, Architecture

Collaborating with Students for the "Right" Design

University of Florida
Reitz Student Union

The renovation and expansion of Reitz Student Union, built in 1967, expanded facilities, services, and programs supporting the University of Florida's diverse campus community, increased energy efficiency, reduced operational costs and greatly enhance comfort and functionality. Phase 1, the 100,000 sf addition, included meeting rooms, lounges, dance rehearsal studios, a ballroom and offices and support space for the Center for Leadership and Service, the Department of Student Activities and Involvement, the Office of Multicultural and Diversity Affairs, GatorWell Health Promotion Services and student clubs and organizations. Phase 2, the 50,000 sf renovation, included new energy-efficient windows and doors, restoration of exterior surfaces and structural components, replacement and upgrades of electrical, plumbing, HVAC systems and upgrades to interior finishes and lighting.

A student government president was the first to propose the renewal of the Reitz in 2009, and students were integral to the project's evolution ever since, launching the "Make It Reitz" campaign to educate students about the Reitz's deficiencies, circulating petitions, gathering letters of support and developing a funding strategy for the project. The design team capitalized upon the established structure of "Make It Reitz" to gather student input on the architectural design, keep students updated on the process, and develop a building that would be "uniquely UF." Conceptual renderings feature wood paneling replicating patterns found on the bellies of alligators, connecting the building to the university's Gator mascot. Careful phasing ensured the Reitz to continue to serve UF's 50,000 students throughout construction.

DATA

- Gainesville, Florida
- 89,000 sf renovation; 118,000 sf new construction
- 2015
- Program, Planning, Architecture, Interior Design, Environmental Graphics, Cost Estimating, Sustainability
- LEED Gold

AWARDS

Facility Design Award of Excellence, Association of College Unions International, 2017,

Best Higher Education Project, Engineering News Record, Southeast, 2016

Top 10 People's Choice Winner, American Institute of Architects, Florida, 2016

Updating Dining Options for Diverse Student Life Events

University of Wisconsin, Madison
Gordon Dining and Event Center

Gordon Dining and Event Center replaces a 1965 dining facility with a marketplace-style dining environment complete with pizza station, deli, grille, international sauté, comfort-food rotisserie, waffle/breakfast bar, and bakery among its many options. Sited between several residence halls that collectively accommodate 3,000 students, the marketplace is zoned to serve 3,000 students during peak periods, leaving pizza, coffee, all-day breakfast, and grille venues open longer to accommodate off-peak crowds. More than 600 dining seats are distributed through a series of distinct spaces with different seating styles, including high tables, bar/counter seating, banquettes, and traditional larger tables that can be moved to accommodate a variety of programming.

Situated along a major campus pedestrian mall, Gordon Dining and Event Center features an outdoor plaza and lawn that are used for event programming, game-day barbecues, and outdoor movie screenings. The Center also expands the university's cache of meeting spaces with a 750-seat ballroom, a 350-seat meeting room, and a series of 20 to 30 meeting spaces, all supported by catering from the commissary and production kitchen below. In addition to serving the marketplace and ballrooms, the commissary also provides catering services for events campuswide, and UW-Madison's culinary team has harnessed the commissary's high capacity to greatly increase the volume of freshly prepared food available on campus. Low-volume exhaust hoods, heat-recovery refrigeration units, and heat-reclaim dish machines reduce energy consumption. In association with Potter Lawson.

DATA

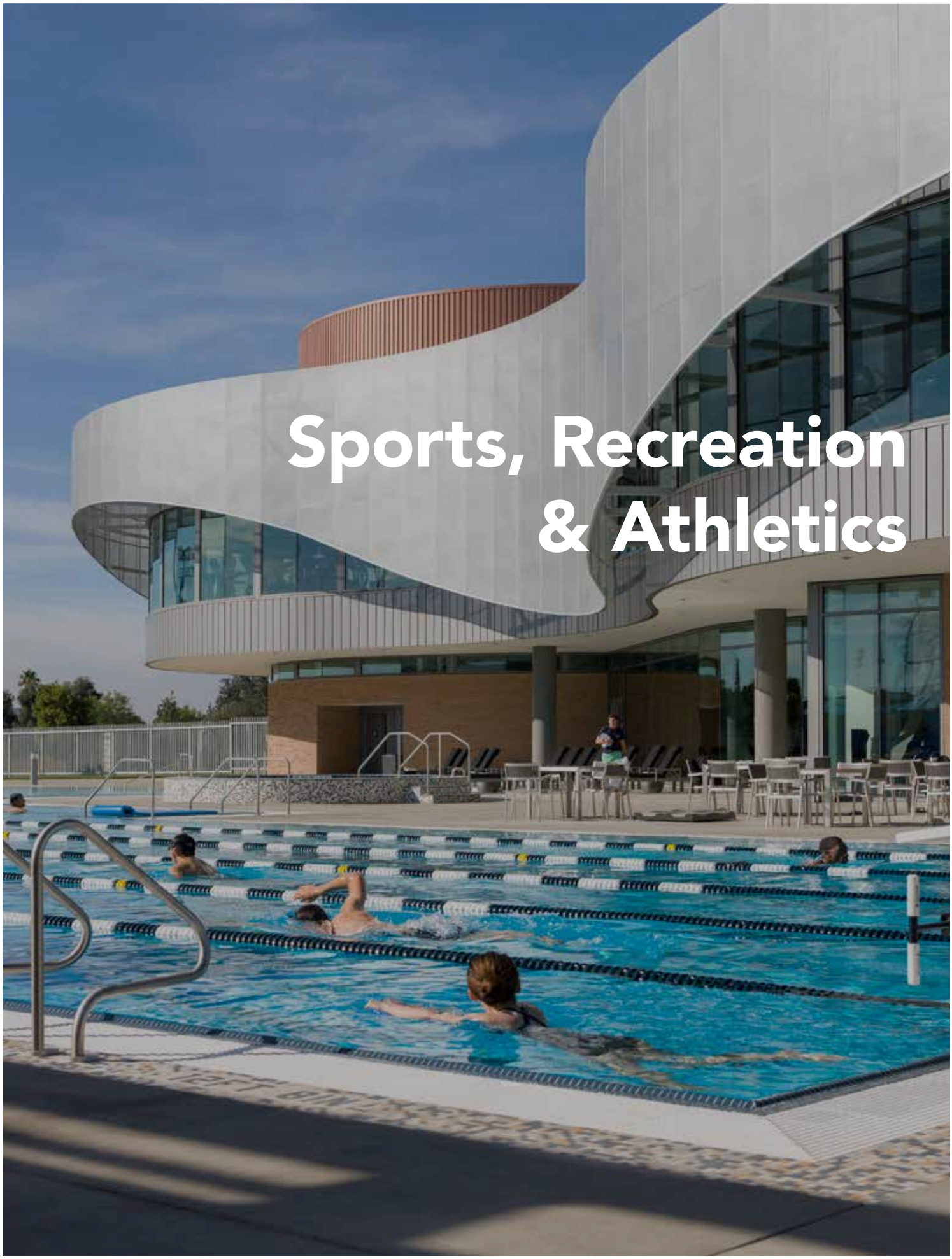
- Madison, Wisconsin
- 115,600 sf
- 2012
- Programming, Planning, Architecture

AWARDS

Educational Interior Showcase Gold Citation, American School and University, 2013

Facility Design Award of Excellence, Association of College Unions International (ACUI), 2014


GORDON AVENUE MARKET
Gordon
Avenue
Market



Sports, Recreation & Athletics

Transformational Building at the Heart of Campus

University of Missouri - St. Louis
Recreation and Wellness Center

Envisioning a high-quality facility that would also become a transformational building on campus, by unifying campus buildings, green space, and pedestrian pathways, the University of Missouri St. Louis selected CannonDesign to plan and design the new campus recreation center and lead the University in this bold new vision.

With new parking garages to the east of the site and the campus core to the west, the building is a connector for students traversing the steep topography that has long challenged campus connectivity. Building elements are organized to maximize light, views, and to display the activity within to the surrounding campus - and display UMSL's commitment to wellness as a component of education.

The 101,000 sf facility includes a three-court gymnasium (including a one-court MAC), an indoor fitness / recreation pool, expansive weight/fitness areas, and four group exercise rooms. One of the many unique features is the 3 lane jogging track that provides an optional 2 lane extension with elevation changes for those seeking a more challenging workout. Other amenities include a juice bar, a bouldering wall, a wet multipurpose room, two saunas, a spa, and administration offices.

DATA

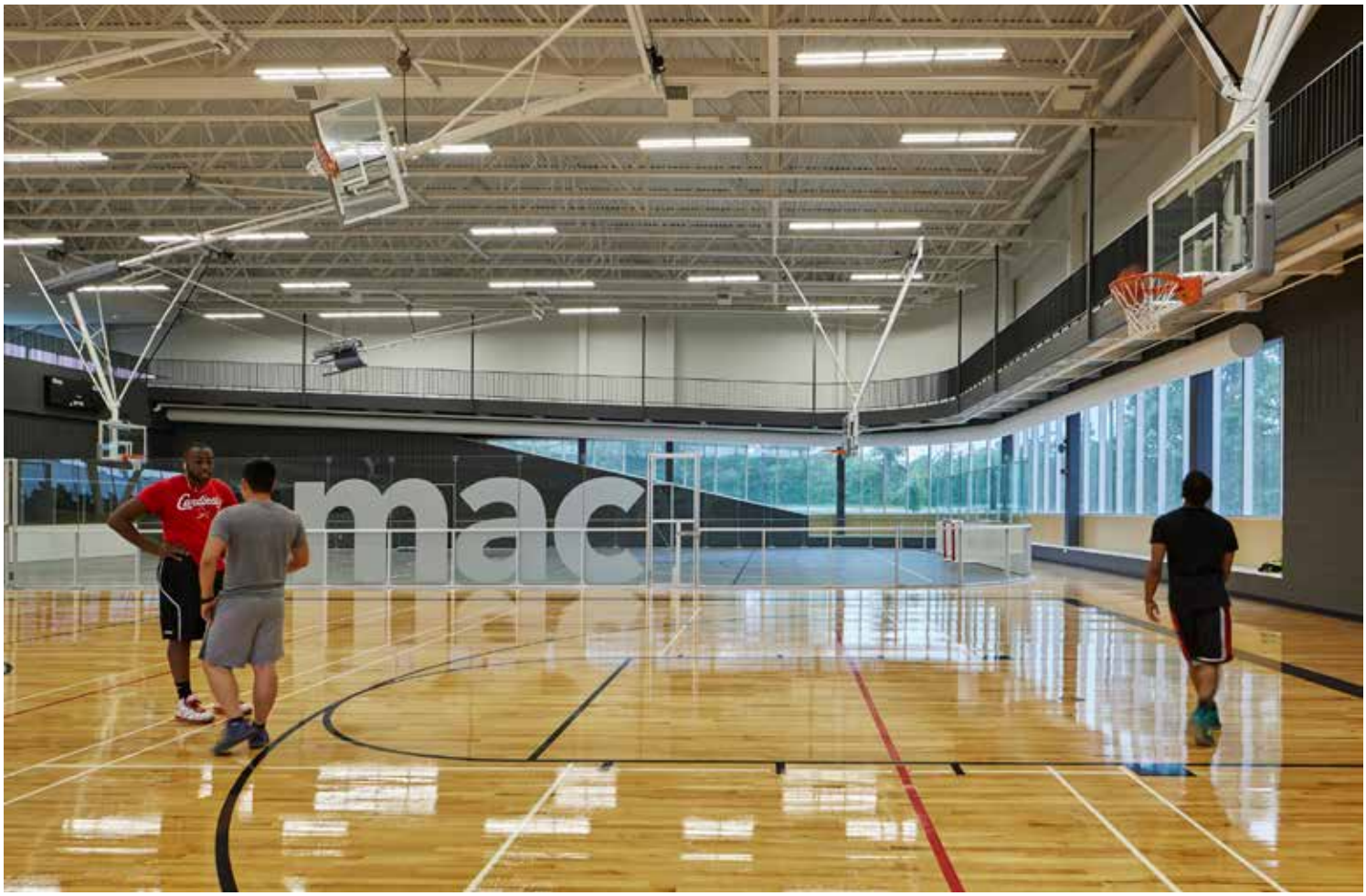
- St. Louis, Missouri
- 101,000 sf
- 2015
- Planning, Architecture, MEP, Structural, Environmental Graphics
- LEED Silver, registered

AWARDS

Outstanding Sports Facility Award, National Intramural-Recreational Sports Association, 2017

Section Award, Illuminating Engineering Society, Boston, 2017

Merit Award, American Institute of Architects, St. Louis, 2016



Creates a Vibrant Student Hub

University of Louisville
Belknap Campus Student Recreation Center

Situated on a compact site adjacent to a major north-south thoroughfare, the University of Louisville's new recreation center provides a new student hub on the west side of the campus, adjacent to a majority of student housing, in support of the campus master plan. It is designed to meet the needs of off-campus commuter students as well as campus residents. Building components include a three-court competition gymnasium stacked atop a three-court recreational gym, expansive weight/fitness areas, a multiuse activity court (MAC), four racquetball courts, a fitness lab, three classrooms, two multipurpose group exercise rooms, a spinning room, a jogging track, sports-club and gaming areas, locker rooms, and administrative offices. A free zone features a juice bar and lounge. The building's transparency showcases the activities within while creating a permeable connection to a grand plaza and an outdoor, lighted, all-season recreational turf field.

Because the freestanding building is not connected to the university's central utilities infrastructure, a geothermal deep-well system provides heating and cooling for the entire facility. Intended as an exemplar of current best-practice utilization of renewable and high-efficiency building systems. In association with architect of record Omni Architects.

DATA

- Louisville, Kentucky
- 128,700 sf
- 2013
- Programming, Sports Planning, Cost Estimating, Architectural Design, Structural Engineering Support, Sports Technology
- LEED Gold

AWARDS

Outstanding Sports Facilities Award, National Intramural Recreational Sports Association, 2015

Merit Award for Architecture, American Institute of Architects, Kentucky, 2015

Restoring a Campus' Icon Stature

University of Colorado at Boulder
Student Recreation Center Expansion and Renovation

When originally built in 1970, the Student Recreation Center at the University of Colorado Boulder was touted as one of the nation's top student recreation centers, with unique planning and spatial qualities that placed it ahead of its time. To restore the recreation center to its former stature, the University of Colorado commissioned CannonDesign, in association with Davis Partnership, to provide planning and design services for a renovation of the 212,000 sf building and new additions totaling 95,000 sf. The $49.5 million project transformed the facility, expanded recreation opportunities, and created a dynamic environment on par with the country's best recreation centers.

Renovations included a three-court gymnasium, jogging track, natatorium, and racquetball courts. Additions provided a three-court gym, an indoor turf gym, an ice arena, group exercise and multipurpose rooms, enlarged weight-training and fitness areas, a climbing and bouldering wall, a wellness suite, locker rooms and administration space. The project also included a new outdoor leisure pool, relocation of four outdoor tennis courts, and creation of a new outdoor recreation field.

Building additions were placed and designed with great care to ensure alignment with the campus vision, master plan, and architecture, consisting of distinctive Tuscan-style sandstone-clad buildings with limestone trim and clay tile roofs arranged around great lawns.

DATA

- Boulder, Colorado
- 212,000 sf renovation; 95,000 sf addition
- 2014
- Sports Programming / Planning, Architecture, Interior Design
- LEED Platinum

AWARDS

Outstanding Sports Facility Award, National Intramural Recreational Sports Association, 2016

Developing a Beehive of Campus Activity

University of Minnesota
University Recreation and Wellness Center Expansion and Renovation

In response to student needs the University of Minnesota commissioned CannonDesign to conduct a master plan for the Division of Recreational Sports. The plan included a recommendation to partially renovate an existing recreation facility on the East Bank campus and add an additional 152,000 sf to the facility. Subsequently the University of Minnesota authorized CannonDesign to proceed with the design of the new addition on a narrow, yet prominent site facing the eastern entrance to the East Bank campus, and renovations to the existing recreation center and natatorium.

Site limitations resulted in a vertical stacking of the programmatic elements. The main entrance, cafe, student lounge and weight-fitness space occupy the first floor. A covered plaza provides access to both the addition and the natatorium housing a 50m x 25yd competition pool with deep diving well. The lower floor provides space for additional weight fitness, cycling studio, lockers, Outdoor Adventure Center and climbing/bouldering area. The second level includes 5 double height multipurpose rooms. The top floor is dedicated to a two-court MAC (multiuse athletic court) and two classrooms. Administrative suites occupy several floors at the tip of the building that hovers above the entry plaza. A Jogging track is placed between the 2nd and 3rd floors. Additional weight fitness areas are located throughout all levels of the facility including three balcony's overlooking the atrium below. In association with architect of record Studio Five Architects.

DATA

- Minneapolis, Minnesota
- 152,000 sf
- 2013
- Feasibility Study, Programming, Sports Planning, Architecture, Interior Design, Sports Technology, Cost Estimating

AWARDS

Outstanding Sports Facilities Award, National Intramural Recreational Sports Association, 2015

Uniting a Campus and Creating a New Path for Recreation

Missouri State University
Bill R. Foster and Family Recreation Center

Wishing to consolidate recreational opportunities in one facility and satisfy student demand, Missouri State University commissioned CannonDesign to plan and design a new recreation center. The university initially opted to renovate McDonald Arena, a 3,000-seat Art Deco basketball arena constructed in 1939. CannonDesign developed a design concept that gutted and completely rebuilt the building's interior, expanded the natatorium with a small addition, and topped the building with a "halo" - a jogging track circumscribing the structure and extending over its lower wing roofs.

Although the design concept was extremely well received, outside considerations arose that required that the renovation be abandoned and an entirely new facility developed. After exploring site options with the recreation center steering committee, CannonDesign developed multiple design solutions for the chosen site, which contained a number of deteriorating tennis courts. Drawings, models, and renderings were prepared to fully engage the university in a collaborative design process entailing numerous interactive work sessions.

The chosen design skillfully eliminates the pedestrian obstacle the tennis courts had created in the heart of campus by creating a new external pedestrian pathway that cuts diagonally through the new building, unifying two major campus precincts. With a dynamic, site-specific form shaped by creative design and environmentally responsible building techniques, the 98,460 sf building includes new basketball courts, a multiuse activity court, a fitness center, multipurpose group exercise rooms, a jogging track, a climbing/ bouldering wall, offices, and other amenities. A natatorium houses fitness lap lanes and a leisure pool.

DATA

- Springfield, Missouri
- 98,000 sf
- 2012
- Sports Programming / Planning, Architecture, MEP, Structural, Environmental Graphics
- LEED Silver

AWARDS

Innovation Award, American Institute of Architects, Springfield, 2014

Public Recognition Award, American Institute of Architects, Springfield, 2014

Honor Award, American Institute of Architects, Springfield, 2014

Honor Award, American Institute of Architects, Central States, 2014

Honor Award, American Institute of Architects, St. Louis, 2014

Outstanding Sports Facility, National Intramural Recreational Sports Association, 2013

Phased Expansion Enables Program Continuity

Northern Kentucky University
Student Recreation Center Expansion

Northern Kentucky University Campus is situated in the picturesque hills just south of Cincinnati and is characterized by extensive use of poured in place concrete and glass. The existing recreation center was made up of successive additions and clad in solid precast concrete panels. A new building program presented an opportunity to transform the complex. Existing concrete panels were removed and new program elements were added around the perimeter of the existing facility, wrapped with a new skin of high performance glazing and insulated metal panels. The addition unifies the chaotic nature of the existing building, allows natural light into the rejuvenated spaces and creates a new identity for the recreation center.

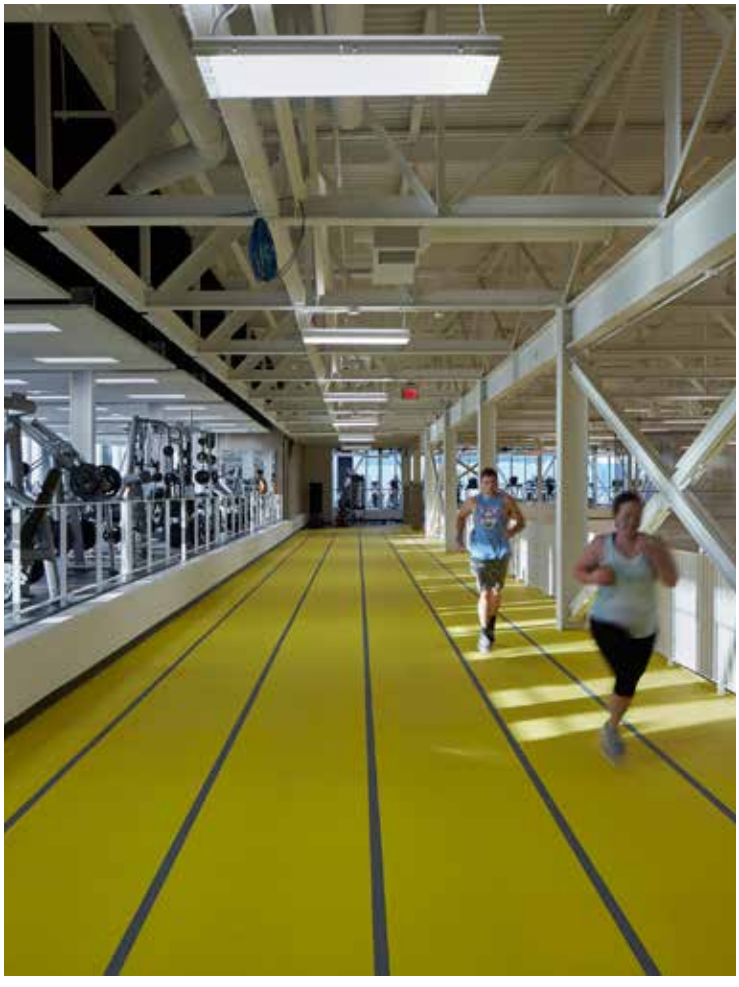
The $40.4 million, 164,500 sf expansion and renovation of the Albright Health Center included renovation of the existing gymnasium, jogging track, racquetball courts, circulation spine and Kinesiology; a new performance gymnasium, indoor aquatic center, weight–fitness space, group exercise rooms, MAC, bouldering wall, student breakout areas and group study space, offices and a new outdoor artificial turf field complex with soccer and softball fields. In association with architect of record Omni Architects.

DATA

- Highland Heights, Kentucky
- 164,500 sf
- 2015
- Programming, Sports Planning, Architectural Design, Sports Technology, Environmental Graphics
- LEED Gold

AWARDS

Outstanding Sports Facility Award, National Intramural-Recreational Sports Association, 2017



Enhancing Cadet Athletic Development and Performance

U.S. Air Force Academy
Holaday Field Indoor Football Practice Facility

The US Air Force Academy's new indoor football practice facility – the Holaday Athletic Center – allows its team to train year-round, staying competitive with its peers in the Mountain West Conference and enhancing recruitment. Featuring a full-size artificial turf football field, a viewing mezzanine and support spaces, the Academy's athletic department can utilize the center for sports practice, education classes, and inter-collegiate and intramural sports all season, specifically during severe weather conditions.

The center has strengthened the Academy's position as a collegiate power in their conference and their respective sports.

The building is situated within the iconic, mid-century modern campus of the Academy, and sets a new standard for energy efficiency. It uses 100% natural ventilation and does not employ a heating or cooling system, capitalizing on the region's prevailing winds and low humidity. Custom-designed sun screens and a large overhanging roof on the facility's western side allows for panoramic views of the Rocky Mountains while also controlling heat gain and glare. The sun screens incorporate perforated metal in a chevron geometry drawn from the design of the Academy's landmark chapel.

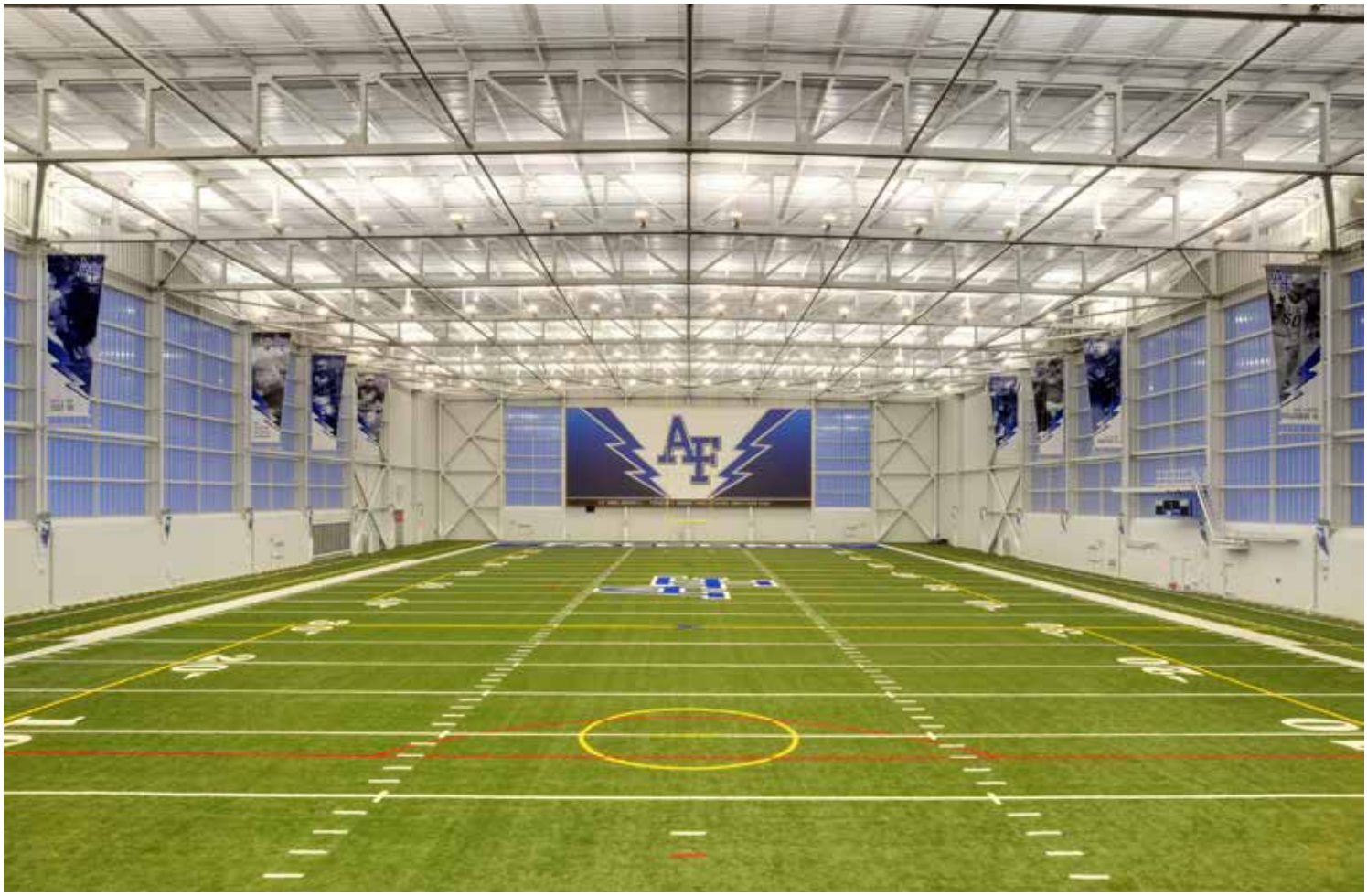
The $18 million facility is the largest privately-funded capital project in the Academy's history.

"A very simple idea executed expertly."

Clarence Mamuyac, Juror, Athletic Business Facilities of Merit Award 2014

DATA

- USAFA, Colorado
- 93,300 sf
- 2011
- Sports Planning, Programming, Design



Renovation and Transformation of a Historic Campus Icon

University of Maryland College Park, Human Performance and Academic Research Facility at Cole Fieldhouse

Cole Fieldhouse, the new home to University of Maryland (UM) football, will be an unrivaled multidisciplinary hub for sport, health, science, wellness and entrepreneurial education. The project converts the historic Cole Fieldhouse basketball arena in the heart of campus into an indoor football facility adjacent to the campus stadium in College Park, MD. The new football facility is leading-edge for Division 1 and Big 10 Athletics and will help UM continue to recruit and train premier athletes that enrich the school's longstanding history of sports excellence.

Core to the dynamic building's mission is its Terrapin Performance Center, dedicated space focused on helping UM athletes train, improve and compete. This space is anchored around a full-sized indoor football field and also offers two outdoor fields, an advanced strength, conditioning and hydrotherapy center, locker rooms, team meeting spaces, coaches offices and a dining facility. The space will offer a premier Division 1 athletic training experience and bring together nutritionists, academic mentors and career advisers focused on student success and peak athletic performance. It is connected to the campus football stadium via a tunnel that visually celebrates UM's remarkable sports heritage.

Other key components of the UM Cole Fieldhouse include:

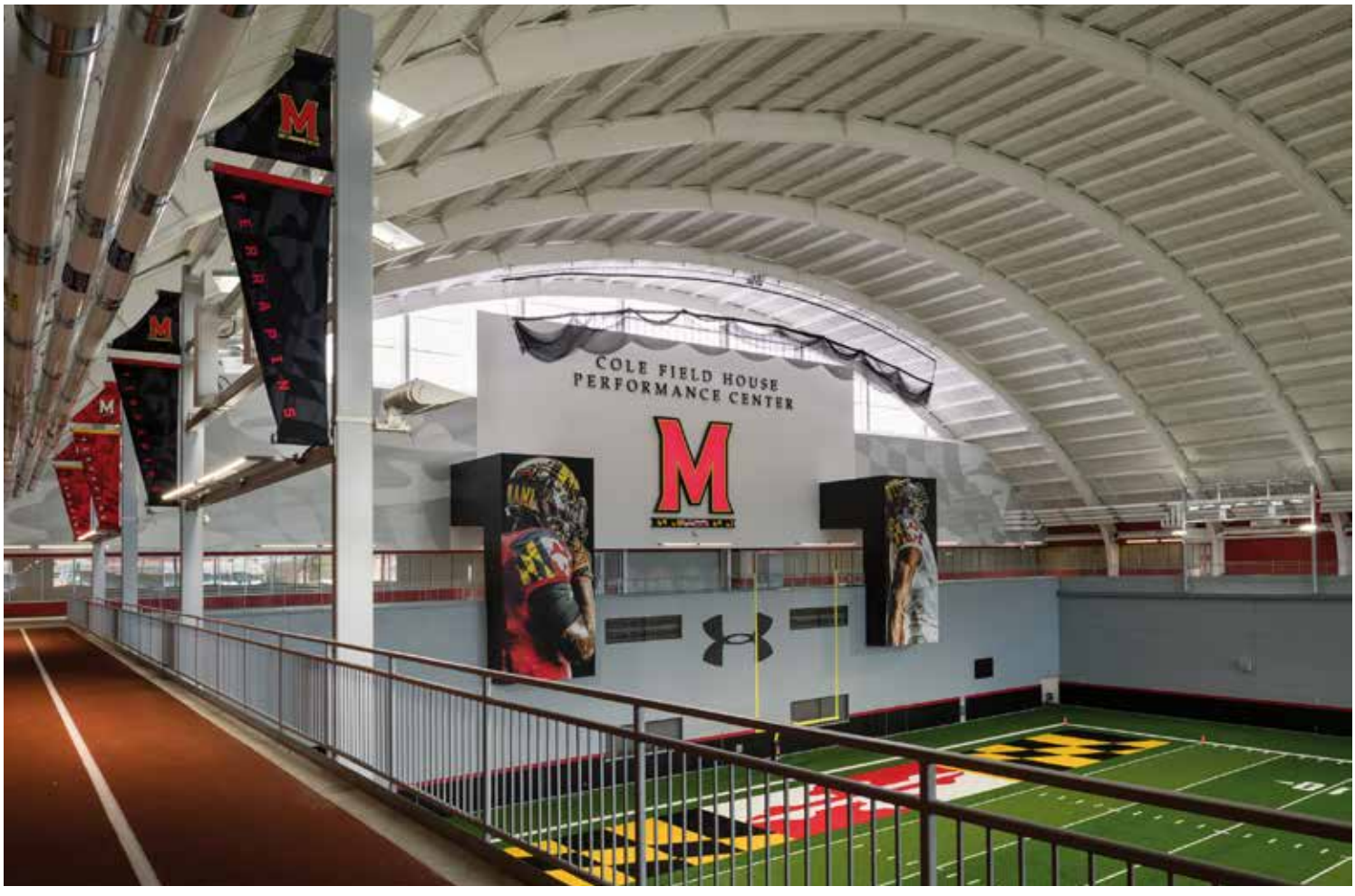
- The Center for Sports Medicine, Health and Human Performance
- An Orthopedic Clinical Treatment Center
- The Academy for Innovation and Entrepreneurship

The design preserves Cole Fieldhouse's beloved entrance along UM's Campus Drive and presents a pedestrian-friendly façade facing Maryland Stadium. Located in the heart of the UM Campus, the renovated Cole Fieldhouse is a beacon for sports excellence, innovation and campus pride. In association with EBA Ernest Bland Associates, PC.

DATA

- College Park, Maryland
- 407,175 sf
- Architecture, Cost Estimating, Facilities Optimization, IT Consulting, LEED/ Sustainability, Electrical Engineering, Mechanical Engineering, Structural Engineering


MARYLAND TERRAPINS


COLE FIELD HOUSE
PERFORMANCE CENTER
TERRAPINS


Planning for the Future

Master Planning an Urban Campus to Reinforce Its Identity

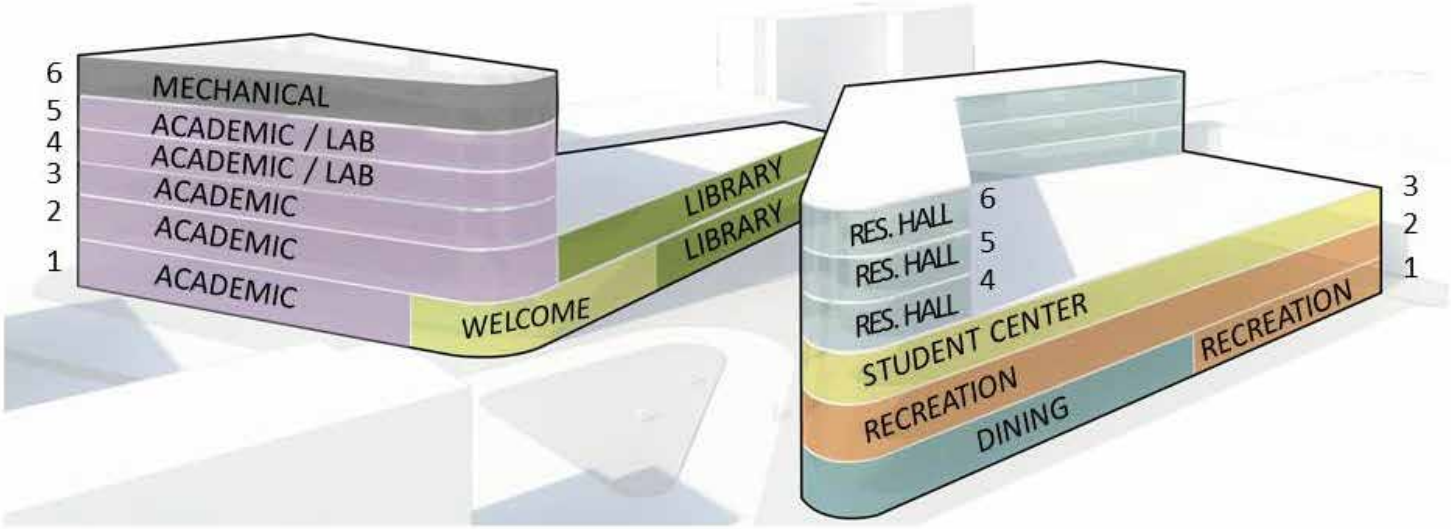
St. Louis College of Pharmacy
Campus Master Plan

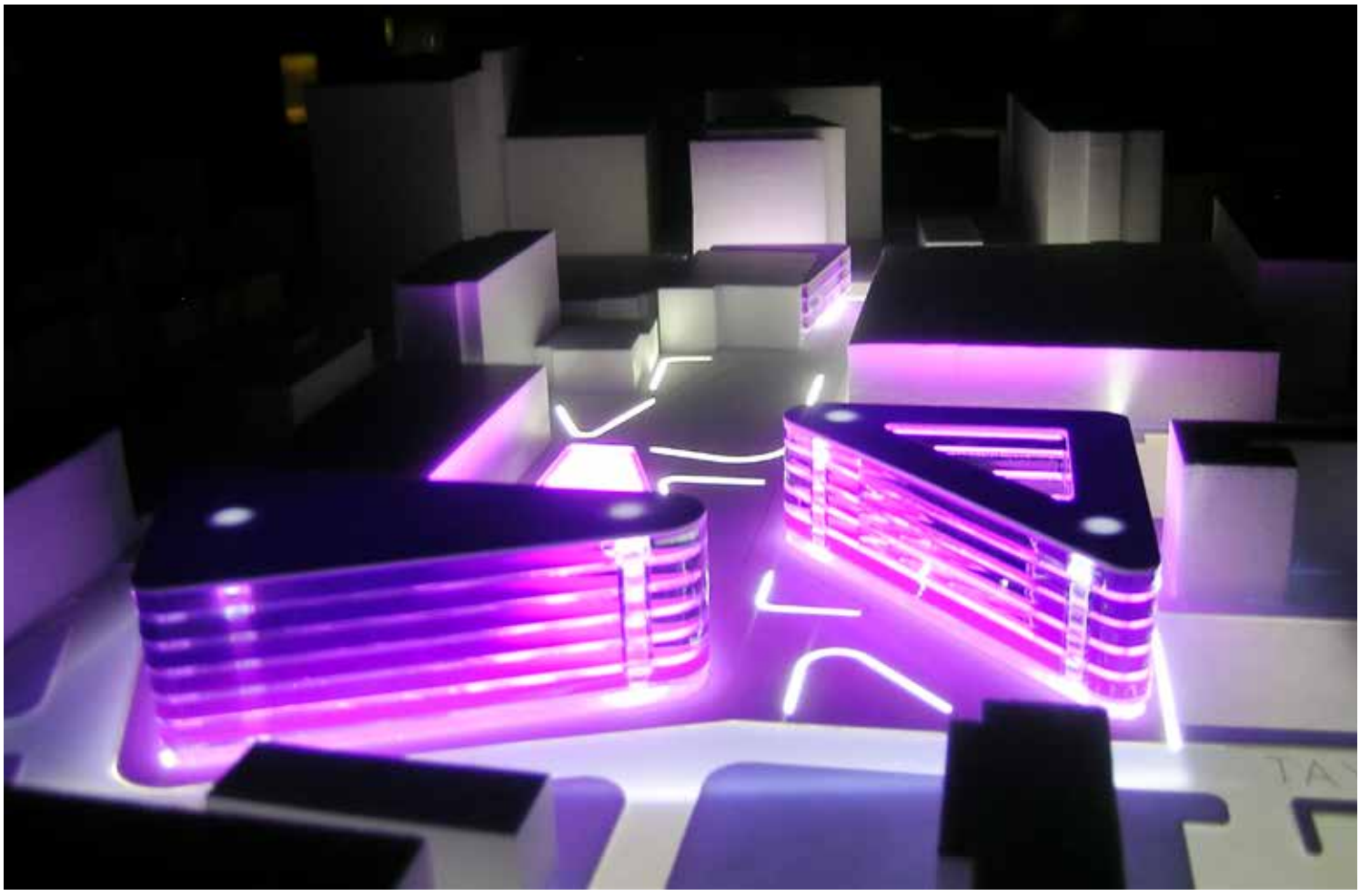
The five-acre campus of St. Louis College of Pharmacy (STLCOP) is surrounded by densely developed city blocks and a renowned medical community that includes Washington University in St. Louis and Barnes-Jewish Hospital. Despite its simple arrangement of five buildings around a central green, first-time visitors have difficulty locating the entrance to STLCOP and distinguishing the campus from its surroundings.

To address this problem as well as future needs articulated in the college's strategic plan, STLCOP 20/20, CannonDesign was commissioned to develop a comprehensive campus master plan addressing current and future space needs, branding and campus identity, and phased implementation. To accommodate an anticipated increase in student population over the next decade, the plan includes facilities for a wide range of collegiate space types, ranging from academic classrooms, research labs, and a library-of-the-future to a student center, residence hall, and athletic and recreation center. Future campus development will be carefully phased to maximize the potential of the tight urban site, stacking functions vertically in a manner that respects the campus's existing scale and reinforces STLCOP's identity as one of the nation's leading pharmacy schools.

DATA

- St. Louis, Missouri
- 2013
- Master Planning, Programming, Architecture, Engineering


6
5
4
3
2
1
MECHANICAL
ACADEMIC / LAB
ACADEMIC / LAB
ACADEMIC
ACADEMIC
ACADEMIC
WELCOME
LIBRARY
LIBRARY
RES. HALL
RES. HALL
RES. HALL
6
5
4
STUDENT CENTER
RECREATION
DINING
RECREATION
3
2
1



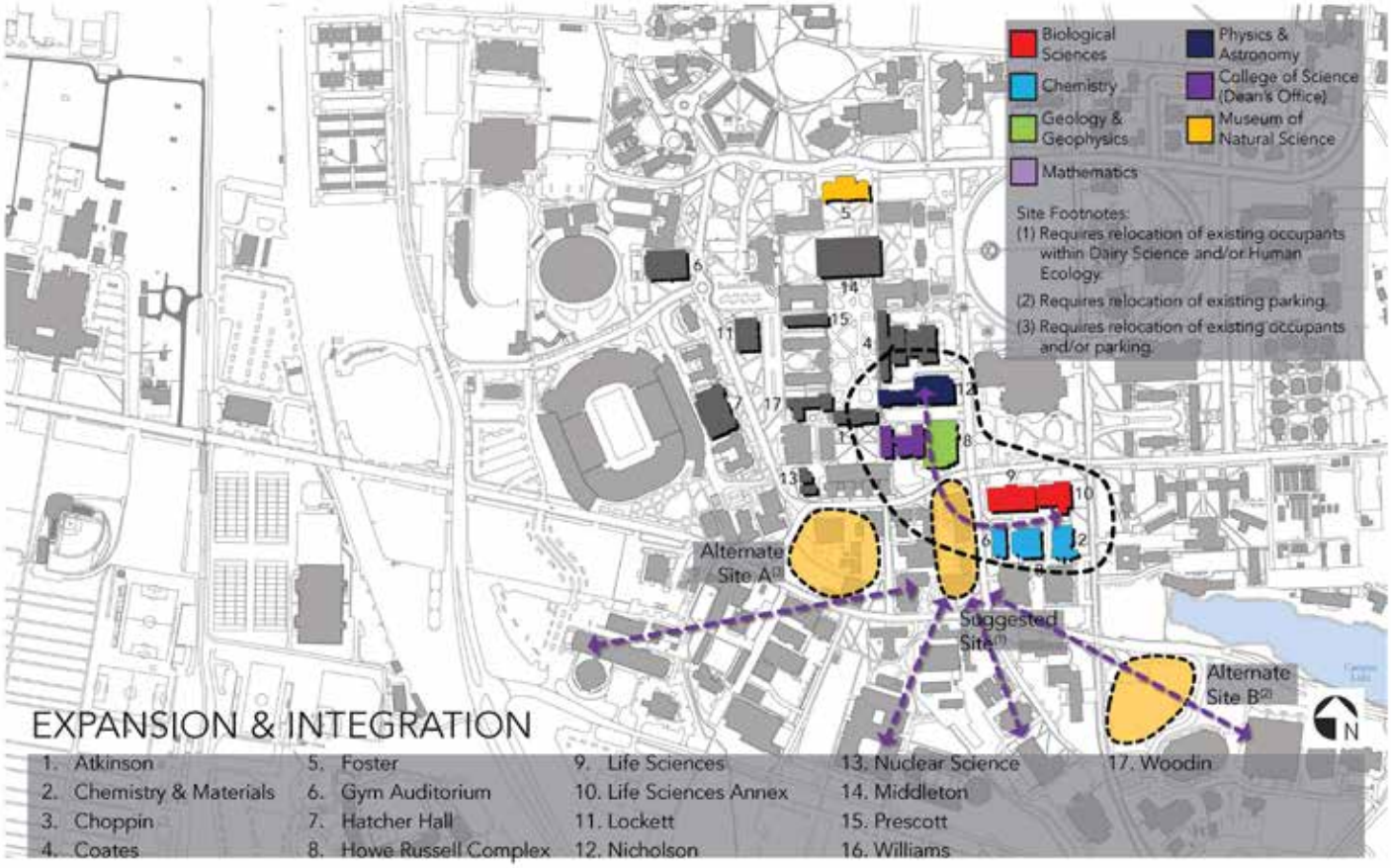
Developing a Roadmap for Academic Learning and Research

Louisiana State University
College of Science Comprehensive and Strategic Master Plan

CannonDesign was commissioned to develop a comprehensive master plan for College of Science (CoS) at Louisiana State University (LSU). The College consists of five academic departments (Biological Sciences, Chemistry, Geology & Geophysics, Mathematics, and Physics & Astronomy) and Museum of Natural Science, with space currently dispersed throughout over 15 facilities on the Baton Rouge campus. The assignment included assessment and documentation of existing building conditions and understanding current and projected faculty/staff/student counts through programming and benchmarking. Planning recommendations were developed to align the College and department's strategic mission and goals and multiple scenarios developed include renovation, additions and/or new construction. The College of Science master plan will serve as a roadmap for the transformation required to support the future academic learning and research at LSU. Prioritizations of recommendations are based on less than 15 year time period and will support the overall Campus Master Plan.

DATA

- Baton Rouge, Louisiana
- 2016
- Master Planning, Programming, Facility Assessment



ASSESSMENTS

Learning	Research	Collaborative (Informal)	Infrastructure	Accessibility	Institutional Value
Life Sciences Annex	Chem. & Mat. Bldg.	Chem. & Mat. Bldg.	Chem. & Mat. Bldg.	Chem. & Mat. Bldg.	Woodin Hall
	Life Sciences Annex	Hatcher	Williams	Life Sciences Annex	Hatcher
		Prescott		Life Sciences	Nicholson
Prescott	Coates	Atkinson	Atkinson	Howe Russell East	Atkinson
Coates	Williams	Coates	Prescott	Williams	Prescott
Williams	Lockett	Woodin Hall	Woodin Hall	Hatcher	Coates
Foster	Life Sciences	Life Sciences Annex	Hatcher		Foster
Life Sciences	Nicholson	Choppin	Choppin	Woodin Hall	Howe Russell West
Nicholson	Howe Russell East	Howe Russell East	Life Sciences	Choppin	Chem & Mat. Bldg.
Howe Russell East			Life Sciences Annex	Nicholson	
			Howe Russell East		Nuclear Science
			Nicholson		Life Sciences Annex
					Howe Russell East
		Choppin			Choppin
	Choppin	Williams		Atkinson	Life Sciences
Choppin	Atkinson	Foster	Foster	Prescott	Williams
Atkinson	Foster	Lockett	Lockett	Nuclear Science	
Woodin Hall	Woodin Hall	Life Sciences	Coates	Coates	
Lockett	Lockett	Nicholson	Howe Russell West	Lockett	
Howe Russell West	Howe Russell West	Howe Russell West	Nuclear Science	Foster	Lockett
Nuclear Science	Nuclear Science	Nuclear Science		Howe Russell West	

Poor / Inadequate Condition

Marginal Condition

Good / Excellent Condition

Developing a New Center of Education for Orlando

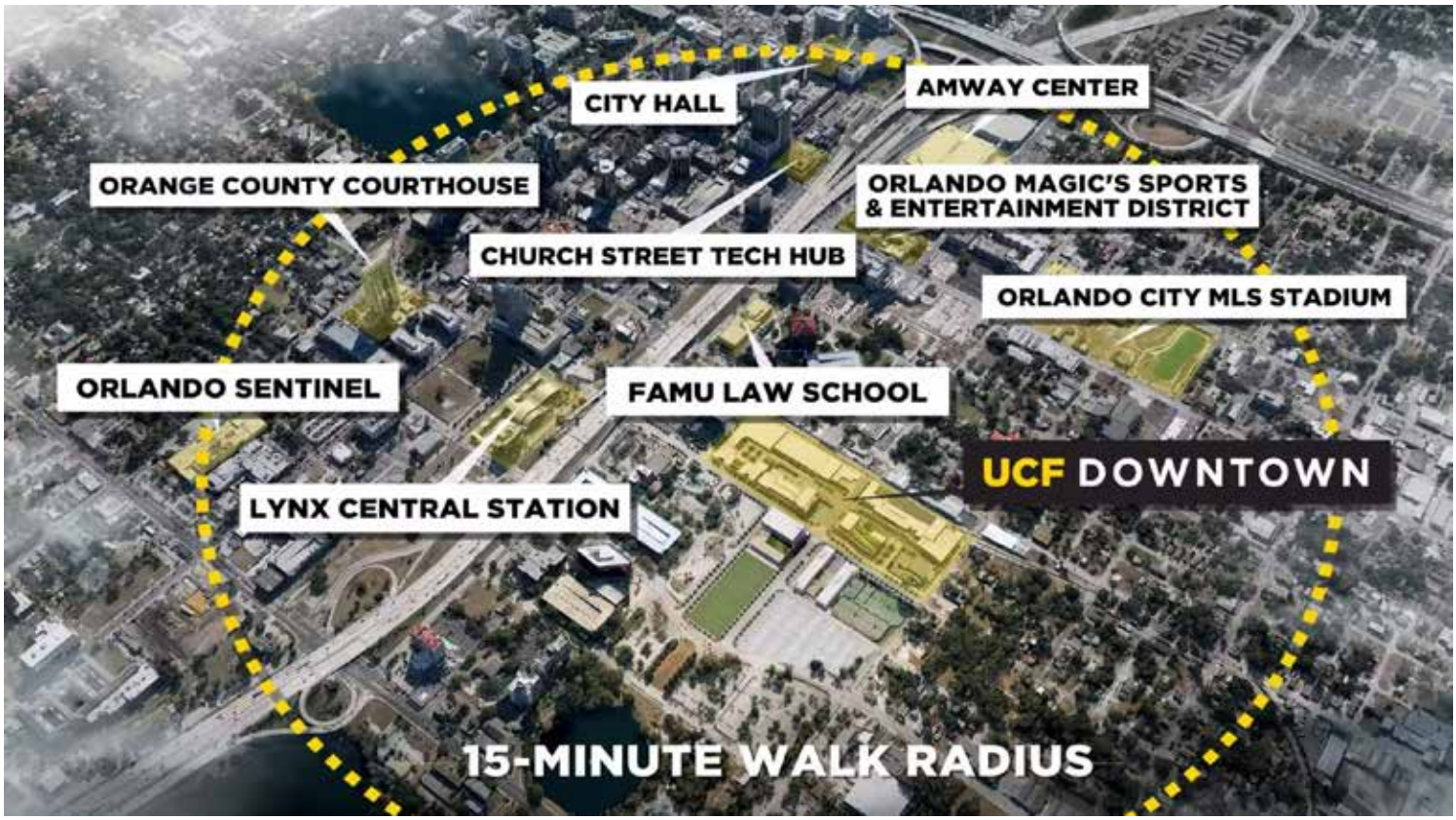
University of Central Florida
Master Plan

The University of Central Florida selected CannonDesign to engage them in planning for a major transformation as they establish a new, 20-acre campus in the heart of downtown Orlando. UCF's downtown campus will redefine the future of "America's Partnership University," by developing a living-learning environment that immerses students in the economic and cultural activity of a major metropolitan area. A modern, accessible university, UCF Downtown will align with the 21st century urban model of anchoring institutions directly in the cities fabric. The campus will be embedded and engaged with the community as an interface to build connections and foster relationships. A UCF Downtown presence will create positive local impact, increase partnerships with business and government, align job creation and economic development, and nurture a vibrant downtown Orlando.

UCF Downtown creates a new interdisciplinary school intersecting select programs from the College of Public Health, College of Engineering and School of Visual Arts. It will foster new integrated research, learning and solutions development by being integrated with the College of Business, Medicine and Nursing and industry partners. It develops a direct relationship between the University and the city by being a solutions focused place centered on economic development through entrepreneurialism, solving local social challenges, and creating a deliberate education continuum through partnerships with community colleges and K12 schools.

DATA

- Orlando, Florida
- 2016
- Master Planning, Academic Planning, Communications Planning


CITY HALL
AMWAY CENTER
ORANGE COUNTY COURTHOUSE
ORLANDO MAGIC'S SPORTS & ENTERTAINMENT DISTRICT
CHURCH STREET TECH HUB
ORLANDO CITY MLS STADIUM
ORLANDO SENTINEL
FAMU LAW SCHOOL
UCF DOWNTOWN
LYNX CENTRAL STATION
15-MINUTE WALK RADIUS

Multi-Campus Master Plan to Revitalize a Region

The University of Texas Brownsville Master Plan

The visioning process, led by CannonDesign, reshaped the University's Academic Plan to guide UTB to become a mission-focused, sustainably-minded research and teaching institution that directly addresses the regional challenges of economic vitality, environmental protection, and the health of its citizens. By promoting the interdisciplinary search for new knowledge that advances social and physical well-being, UTB will spur economic development while honoring the creative and environmental heritage of the region – in the process becoming a leading force to be "regionally focused and globally significant" and a model for other institutions to follow.

CannonDesign's Master Plan shapes a 320 acre urban campus that is a pedestrian friendly, walkable community serving as a cultural center for the City of Brownsville. With a goal to be one of the nation's first Triple Net Zero campuses, UTB is planned to be a leader in innovative sustainability initiatives and partnerships within the Rio Grande Valley, creating the opportunity for a regenerative impact across the entire region. In preserving the natural ecology and facilitating environmental learning and research, the campus will be a living laboratory.

DATA

- Brownsville, Texas
- 2013
- Master Planning, Real Estate Evaluation, Academic Planning

UTB MISSION AND CORE VALUES

REGIONALLY FOCUSED, GLOBALLY SIGNIFICANT

A campus in service of local challenges, translating knowledge and innovation into global impact.

OWNING OUR GEOGRAPHY

A compact, urban campus deeply rooted in the social and cultural fabric of South Texas and the Border region.

OUR CAMPUS IS AN ENVIRONMENTAL LABORATORY

A regenerative campus, interweaving learning, research and technologies.

Master Planning an Urban Campus to Reflect Its Unique Cultural Identity

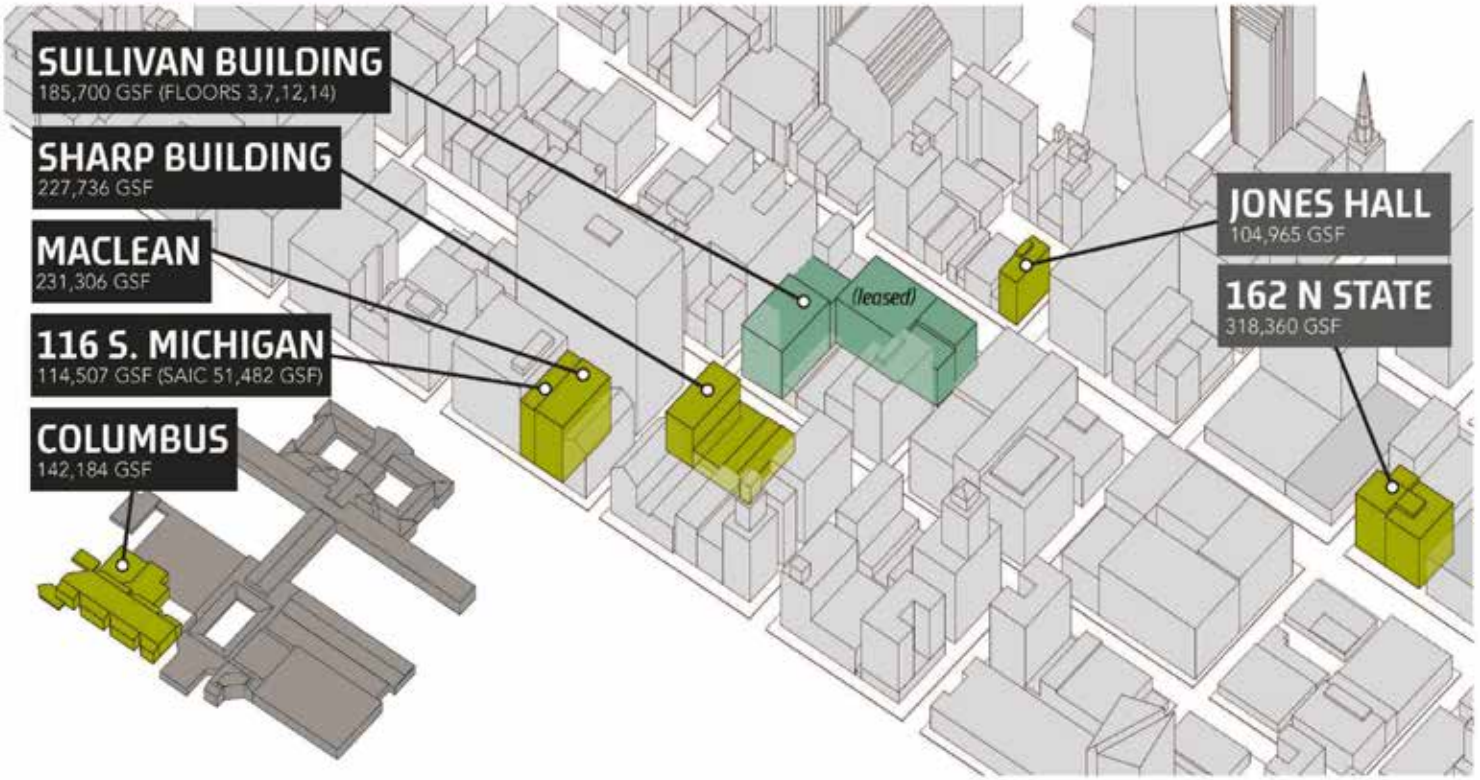
School of the Art Institute of Chicago
Master Plan

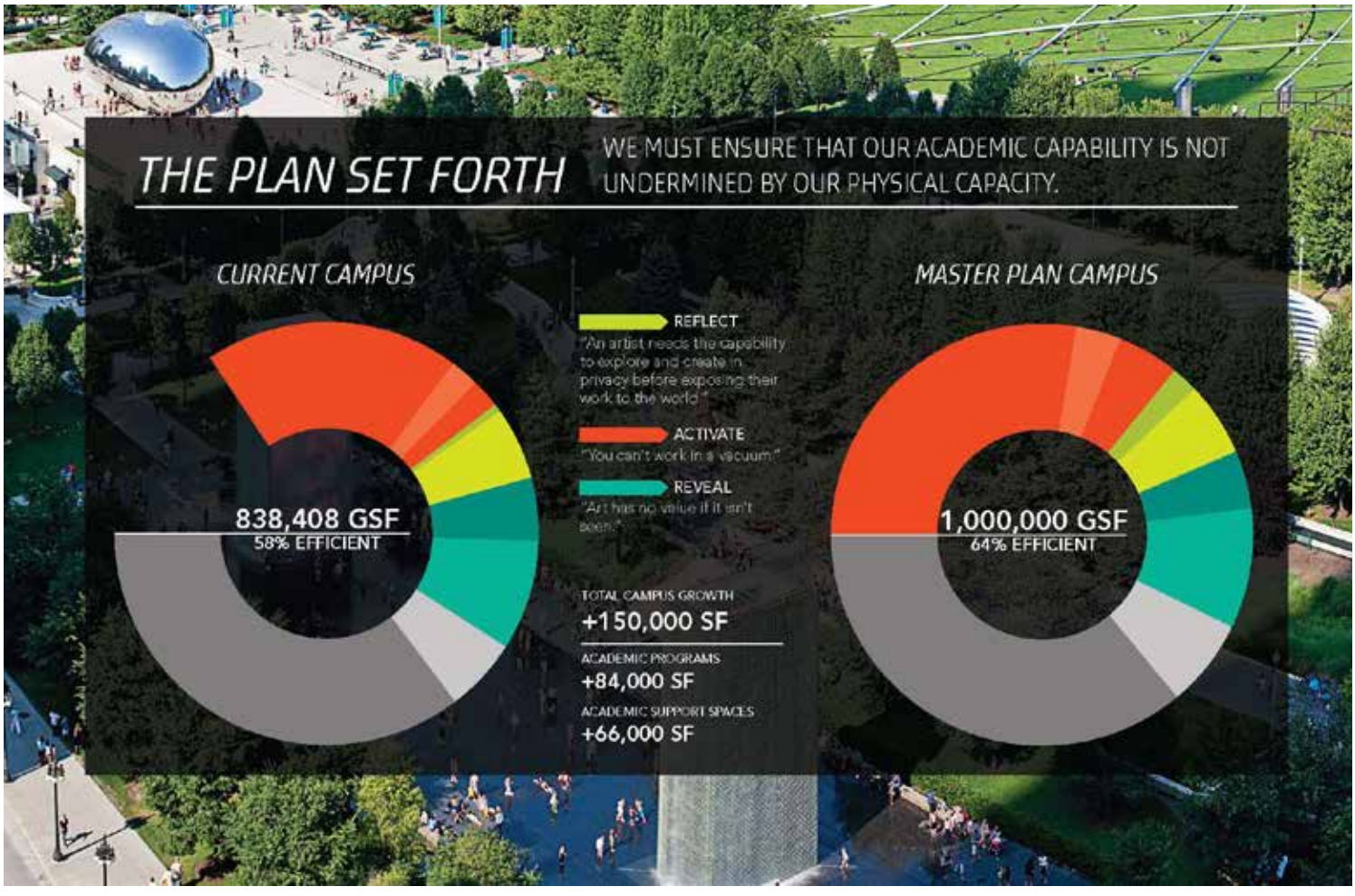
Recognized by Columbia University's National Arts Journalism survey as "the most influential art college in the United States" and consistently ranked among the country's top three graduate fine-arts programs by U.S. News and World Report, the School of the Art Institute of Chicago (SAIC) is one of the nation's most historically significant accredited independent schools of art and design. Facing rapid growth of its student population and a broadening of its areas of study, SAIC commissioned CannonDesign to help develop a comprehensive campus master plan to thoughtfully increase its available space. Goals included accommodating changes in the nature of research, teaching, and student habits in 21st-century spaces, upgrading studio opportunities in both traditional and contemporary art and design, ensuring students' continued access to state-of-the-art equipment and technology, and promoting community in a nontraditional, urban campus spread across seven noncontiguous facilities in Chicago's Loop.

DATA

- Chicago, Illinois
- 2014
- Visioning, Master Planning, Programming

THE CAMPUS TODAY





Multi-Campus Master Plan to Transform a Region's Economy

University of Texas Rio Grande Valley Master Plan

The master plan aims to support the continued transformation of one of the most underserved regions in the U.S., providing access to education, focusing on regional talent development and job creation.

The master plan formulates a series of decentralized yet highly connected centers of education, each offering access to integrated problem based learning, research and public / private R&D partnerships.

Each campus will be a theme-based development, created in conjunction with host city partners and centered on an R&D strength such as Earth and Space (with their partner Space X), Maritime Transportation and Marine Ecology (with their partner, the Port of Brownsville), Bio-medical Discovery (with their Partner Drs. Renaissance Hospital) and Environment and Nutrition. UT Rio Grande Valley has a sustainable goal of Net Zero for all campuses.

A web-based communication tool easily communicates all facets of the master plan:

- Explore by time: An interactive timeline displays future trends and major milestones of the plan
- Explore by type: Visitors to the website can take an in-depth look at building types such as research, learning, support and connectivity
- Explore by location: An on-line, interactive map tracks the progress of the master plan throughout the Rio Grande Valley

DATA

- Rio Grande Valley, Texas
- 2016
- Master Planning, Academic Planning, Visioning, Programming, Planning, Sustainable Consulting (Net Zero), Investment Modeling, Design Guidelines


Starr
Hidalgo
Willacy
Cameron
Tamaulipas
Roma
RIO GRANDE CITY
Ciudad Miguel Alemán
13.4 Miles
Ciudad Camargo
La Casita-Garciasville
Sullivan City
41.1 Miles
EDINBURG
McALLEN
Mission
Pharr
39.1 Miles
WESLACO
HARLINGEN
SOUTH PADRE ISLAND
40.8 Miles
Los Fresnos
PORT ISABEL
26.3 Miles
Reynosa
Nuevo Progreso
Ciudad Río Bravo
Cameron Park
Boca Chica Beach
27.4 Miles
BROWNSVILLE
Matamoros
Research Infrastructure
Campus Anchors
Community Hubs


UTRGV | A Prototype for the Future
SCHEDULE

Creating a New Academic and Research Innovation District

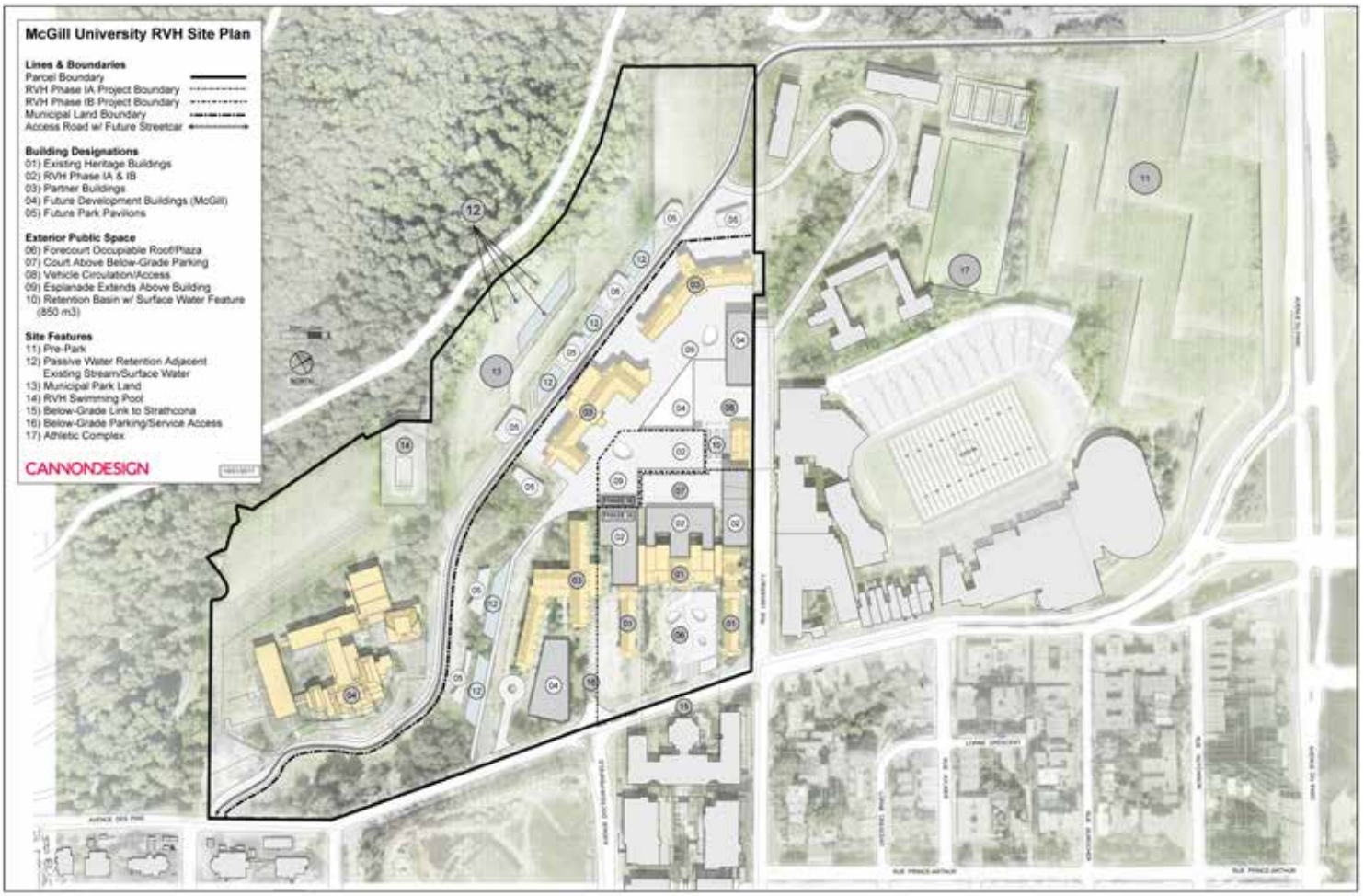
McGill University
Royal Victoria Hospital Redevelopment Master Plan

Strategic, academic and master planning of the former Royal Victoria Hospital site, a 35 acre existing historic health campus on the boundary of McGill University, Mount Royal and the burgeoning Plateau District. This development plan sets the stage for the future development of McGill's focus on sustainability and research excellence, taking a site noted for its public health innovation, healing Montreal, to global sustainability, healing the planet.

This efforts includes academic programming and planning to expand McGill's academic campus into this heritage site at the foot of Mount-Royal, development strategies for identifying and partnering other institutions and organizations across Montreal and the creation of innovative teaching & research facilities. The purpose of this strategic master plan is to anchor the planning of future campus developments with industry partnerships and complementary programs, creating a flexible, expandable and constantly relevant innovation district.

DATA

- Montreal, Quebec, CA
- December 2018 (Estimated)
- Academic Programming, Master Planning, Facility Assessments


McGill University RVH Site Plan
Lines & Boundaries
Parcel Boundary
RVH Phase IA Project Boundary
RVH Phase IB Project Boundary
Municipal Land Boundary
Access Road w/ Future Streetcar
Building Designations
01) Existing Heritage Buildings
02) RVH Phase IA & IB
03) Partner Buildings
04) Future Development Buildings (McGill)
05) Future Park Pavilions
Exterior Public Space
06) Forecourt Occupiable Roof/Plaza
07) Court Above Below-Grade Parking
08) Vehicle Circulation/Access
09) Esplanade Extends Above Building
10) Retention Basin w/ Surface Water Feature (850 m3)
Site Features
11) Pre-Park
12) Passive Water Retention Adjacent Existing Stream/Surface Water
13) Municipal Park Land
14) RVH Swimming Pool
15) Below-Grade Link to Strathcona
16) Below-Grade Parking/Service Access
17) Athletic Complex
CANNONDESIGN

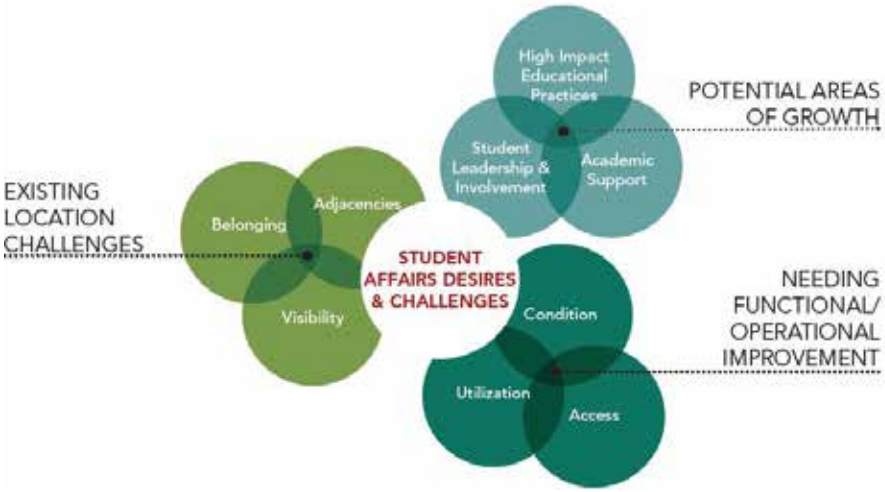
Centralizing Student Affairs on Campus

Washington University in St. Louis
Student Affairs Planning

In its 160-year history, Washington University in St. Louis (Wash U) has never had a centralized Student Affairs entity. In response to strategic initiative, WashU formed the Division of Student Affairs and engaged CannonDesign in a strategic planning effort. The design team worked with WashU to achieve a plan that communicates their goals: unite over 20 departments, address physical space needs, and plan for future growth. CannonDesign engaged user groups from each Student Affairs department to understand their current state and strategic initiatives. This is a cohesive Division driven by the successful student experience as the guiding principle for all. Additionally, this study also created study space for graduate students in the Humanities, a Center for Diversity & Inclusion, and Centers for Student Success and Student Engagement.

DATA

- St. Louis, Missouri
- 2016
- Master Planning



OPTIONS EXPLORED