

HP.ID

Human Purposed Integrated Design

Our approach to meeting design challenges is a resolute commitment to Human Purposed Integrated Design, or **HP.ID**.

HP - Human Purposed is a deep commitment to humanity as the origin of inspiration, innovation, and prosperity.

ID - Integrated Design is the delivery of insights enabled by clear communication among a diverse team of active collaborators with refined expertise.

bnım

Our work recognizes the opportunity for elevating human experiences within the intersections of interdisciplinary environments and high-performance building design.

The following projects are examples of the journey of BNIM in helping our clients realize **transformative**, **collaborative**, **interdisciplinary** environments for research, learning, workplace, and other environments which elevate the mission of their respective organizations. At BNIM we refer to our process as **Human Purposed Integrated Design** (HP.ID) and we embrace the opportunity to elevate human and organizational potential and building performance through design.

In each project, we strive to do more with less in helping our clients more fully realize their goals and aspirations. This means helping researchers and investigators achieve more important findings and discoveries while working in an environment that is better for them, more responsible to natural systems, and fiscally responsible with first-cost and operational costs.

HP.ID elevates the way we realize each project to achieve outcomes of efficiency, comfort, and durability. Achieving results for occupants requires challenging conventions and traditional practices of program, design, and construction.

Our process is collaborative and iterative. We collaborate with our clients to create solutions that achieve their goals for increased performance without additional expense. We have found that by crafting better envelopes, harvesting daylighting more effectively, accurately understanding electrical loads, and being smarter about ventilation we are able to allocate the budget to make buildings that are better connected to their environs and less dependent upon mechanical and electrical systems. In doing so, we shift dollars from things that use energy to things that save energy, while creating more comfortable and productive results.

Each project in these pages is unique and each necessitated a slightly different process and achieved different outcomes, just as our next project will also be unique. However, there is one consistent notion, we will continue to evolve our HP.ID process to help our clients achieve measurable results in their mission and facilities.

Since 1970, BNIM has designed millions of square feet of innovative spaces for public entities, including school districts, higher education institutions, and civic and federal agencies. In the past three decades, BNIM has emerged as a national expert in the design of technologically sophisticated applied learning environments that accommodate the needs of next-generation students and faculty.

To date, the firm has executed -

108

46

higher education projects on

campuses in the U.S.

including Princeton, Washington University, UC Berkeley, UCLA, UC CalPoly, Georgia Tech, Metropolitan Community College - Omaha, Johnson County Community College, Palomar Community College District, and Tarrant County Community College District. A select few projects are featured on the following pages.



AIB COLLEGE OF BUSINESS

Campus Master Plan

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Child Development Center Presidents Suite The Pointe Renovation

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO

Kennedy Library Renovation Programming + Feasibility Study

CALIFORNIA STATE UNIVERSITY, SAN MARCOS

Academic Building Feasibility Study

CAMBRIAN COLLEGE

Cambrian College Energy Center of Excellence

CHATHAM UNIVERSITY

Eden Hall Campus Master Plan

DRAKE UNIVERSITY

Meredith Hall Feasibility Study Harkin Institute

GEORGIA INSTITUTE OF TECHNOLOGY

Price Gilbert Library and Crosland Tower Renewal

GRINNELL COLLEGE

Nollen House Renovation + Addition Academic Center Renovation 1127 Park Street Renovation + Addition Study Grinnell House Renovation + Addition Study Preschool Psychology Lab Facility Study

IOWA STATE UNIVERSITY

Gerdin Business Building Expansion Troxel Hall Auditorium Pearson Hall Classroom Improvements

JOHNSON COUNTY COMMUNITY COLLEGE

Career and Technical Education Building
Fine Arts + Design Studios

KANSAS CITY ART INSTITUTE

Campus Master Plan + Plan Verification Campus Coffee House ARTSpace (adaptive reuse) Jannes Library + Learning Center New Academic Building Feasibility Study

KANSAS STATE UNIVERSITY

Justin Hall Renovation + Addition Study
Seaton Hall Renovation + Expansion (with Ennead)
FASTER Feasibility Study + Programming
McCain Auditorium Study + Concept Design

LITTLE BIG HORN COLLEGE

Health + Wellness Center

METROPOLITAN COMMUNITY COLLEGE

Center for Advanced and Emerging Technology

MIDDLEBURY COLLEGE

Middlebury College Bicentennial Hall

MIRACOSTA COMMUNITY COLLEGE DISTRICT

Master Services Agreement

MISSOURI STATE UNIVERSITY

Walnut Street Housing
(with Hanbury Evans Wright Vlattas)

Exterior Renovation of Blair-Shannon House
Exterior Renovation of Freudenberger House
Exterior Renovation of Hammons House

Exterior Renovation of Hutchens House Kentwood Hall Study

Exterior Renovation of Garst Dining Center Exterior Renovation of Looney Hall (West Plains Campus)

Exterior Renovation of Jordan Valley
Innovation Center

Ozarks Education Center, Bull Shoals Field Station

MONTANA STATE UNIVERSITY

Montana State University EPICenter
+ NIST Report
Gaines Hall Renovation

OBERLIN COLLEGE

Green Arts District Master Plan
Master Plan Programming + Planning

PALOMAR COMMUNITY COLLEGE

Maintenance and Operations Facility

PRINCETON UNIVERSITY

Lewis Center for the Arts (with Steven Holl Architects)

RESEARCH COLLEGE OF NURSING

Classroom Renovations

ROCKHURST UNIVERSITY

Campus Master Plan Parking Structure

RICE UNIVERSITY

Anderson Hall Improvements

SOUTH DAKOTA STATE UNIVERSITY

Visual Arts Building (with Koch Hazard Architects)

TARRANT COUNTY COLLEGE DISTRICT

Center of Excellence for Energy Technology

THE UNIVERSITY OF BRITISH COLUMBIA

C.K. Choi Institute of Asian Research (Sustainable Design Consultant)

UNIVERSITY OF CALIFORNIA - BERKELEY

Moffitt Library Renovation

UNIVERSITY OF CALIFORNIA - LOS ANGELES

Medical Education Building + Biomedical Library (with Lake | Flato Architects) Engineering VI Phase I (WIN-GEM) (with MRY

Engineering VI Phase II (with MRY)

UNIVERSITY OF CHICAGO

Stevanovich Institute on the Formation of Knowledge (with UrbanWorks Architecture)

UNIVERSITY OF GEORGIA

Odum School of Ecology

UNIVERSITY OF HOUSTON

Campus Expansion Site Study Michael J. Cemo Hall

UNIVERSITY OF IOWA

Visual Arts Building (with Steven Holl Architects)
Newton Road and Melrose Avenue Parking
Facilities Architectural Enhancements
Stanley Museum of Art
Psychological + Brain Sciences Center
Stuit Hall Renovation
Art Building West Flood Recovery
Art Building Flood Replacement Project (with
Steven Holl Architects)
Seamans Center for the Engineering Arts +
Sciences
University of Iowa Informatics Initiative (UI3
College of Nursing Building

UNIVERSITY OF KANSAS

Marvin Hall Addition + Renovation Study School of Engineering M2SEC Research Building NIST Grant

UNIVERSITY OF KANSAS MEDICAL CENTER

Parking Garage #5

UNIVERSITY OF MISSOURI

Christopher S. Bond Life Sciences Center
Virginia Avenue Parking Garage
Maryland Avenue Parking Design-Build Guidelines
Reynolds Alumni Center
Journalism School Renovations
Parking Garage No. 7
Patient-Centered Care Learning Center
School of Music Building

UNIVERSITY OF MISSOURI - KANSAS CITY

The Henry W. Bloch Executive Hall for Entrepreneurship + Innovation Cherry Street Parking Garage Hospital Hill Parking Garage Hospital Hill Health Sciences Education + Research







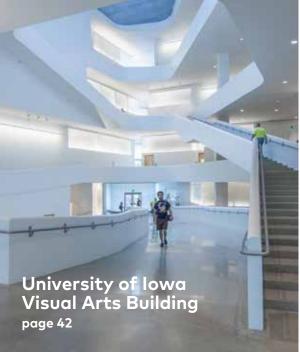
















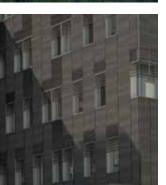




















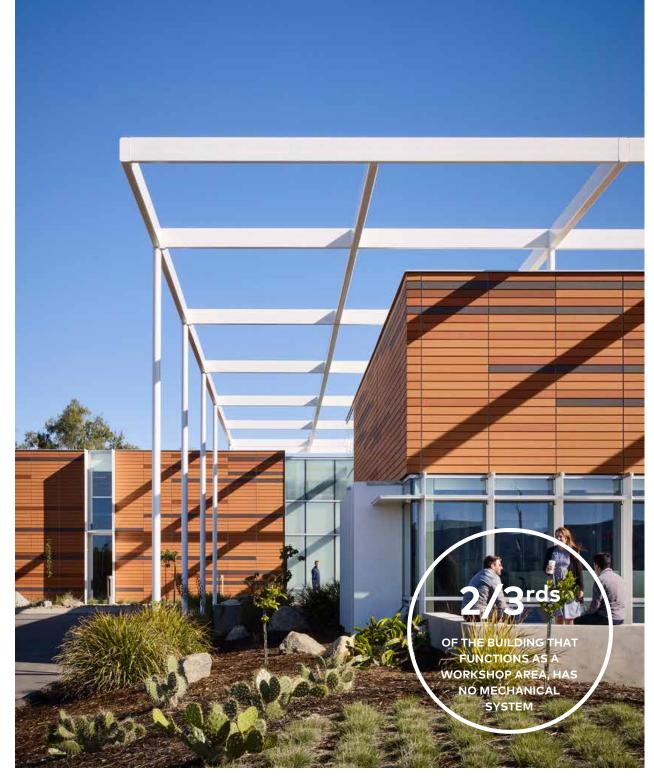
The Palomar College Operations and Maintenance Complex will serve buildings and grounds at Palomar College and other satellite campuses. It will house the district's facilities personnel for buildings, grounds, and maintenance as well as providing conference space, staff offices, and shop spaces. The project consists of a large shop building and small office building that are linked through a series of outdoor paths and spaces on an irregularly shaped site. While campus operations facilities are often relegated to secondary locations, the project is located on what was an existing surface lot at a highly visible campus gateway. The design team has used site topography and the strategic placement of the building to screen vehicular uses and to create a series of memorable indoor and outdoor spaces that are visible from pedestrian and vehicular entries to the campus. The team worked with Palomar staff to map the many vehicular and maintenance circulation patterns in order to optimize the performance of the facility while reducing the overall vehicular footprint.

28,000 SF Completion in 2018 Designed to achieve Net Zero







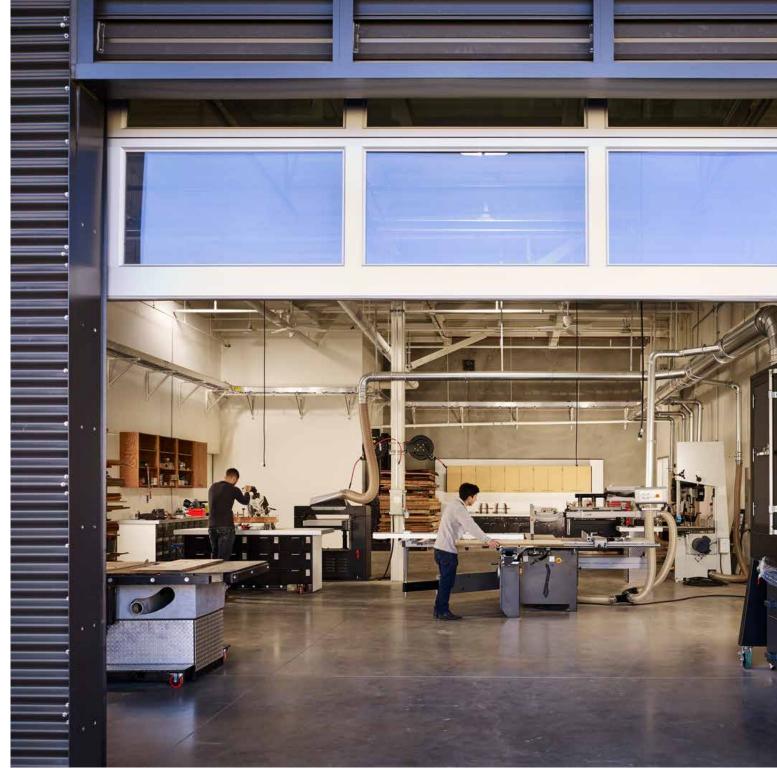


Sustainable Strategies and Features

- 100% Daylight for all Office Spaces
- 100% Natural Ventilation for all Shop and Offices
- Primarily Native Californian Landscape
- 86% Cooling Load Reduction
- 29% Heating Load Reduction
- 105% Renewable Energy Provided by Solar Panel Array
- 20.95 Current Designed EUI
- 67% Passive Ventilation (Shops and Storage) v. 33% Active Ventilation (Offices)
- 50/50 Balanced Site Hardscape/Softscape



- 1 Overhead sectional doors with operable louvres Precooled
- 2 Solartube and ceiling fans
- 3 Operable window
- 4 Aluminum thermal chimney
- 5 Operable window Precooled
- 6 Aluminum roof monitor
- 7 Photovoltaic system
- 8 Dual harvesting sunshade system
- 9 Bioretention basin











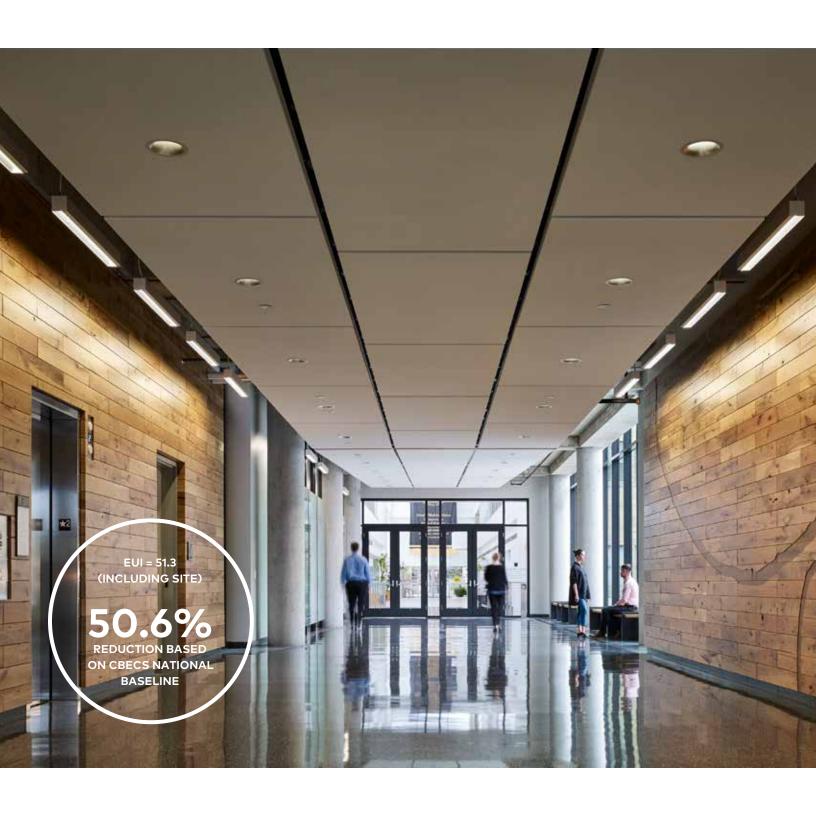


The University of Missouri School of Medicine (SOM) was tasked with expanding its enrollment in response to a call from the Association of American Medical Colleges (AAMC) for all medical schools to increase enrollment by 30%. The SOM has partnered with CoxHealth and Mercy health systems out of Springfield, MO to create a clinical campus in Columbia, which will help meet a critical need for more physicians. This public-private partnership will bring transformational change by ultimately providing more than 300 additional physicians for the state, adding more than \$390 million annually to Missouri's economy and creating 3,500 new jobs.

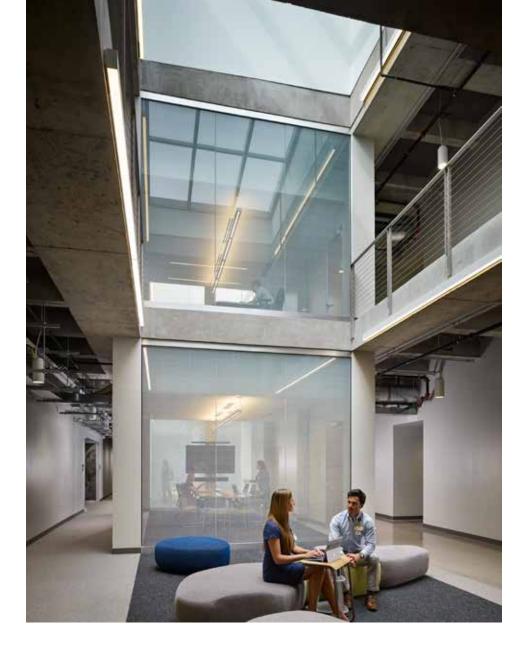
BNIM's team designed an alternative that called for new construction on top of the existing MSA, and also a small-footprint addition to the MSA's immediate west side, which will significantly enhance the primary entrance to the SOM and create a street-side entrance for all of MU Health Sciences. This solution maximized the SOM's budget and resulted in a more effective, high-performing design.

The SOM's focus on patient-based care defined the ultimate design, which includes improved daylight quality, access to views of campus, more generous amenities for students, and an enhanced focus on providing a facility that promotes collaboration among students, faculty, and staff. By improving its technology, increasing lab sizes and providing additional space for first- and second-year medical students, the new SOM will become a recruiting tool.

98,888 SF Completion in 2017



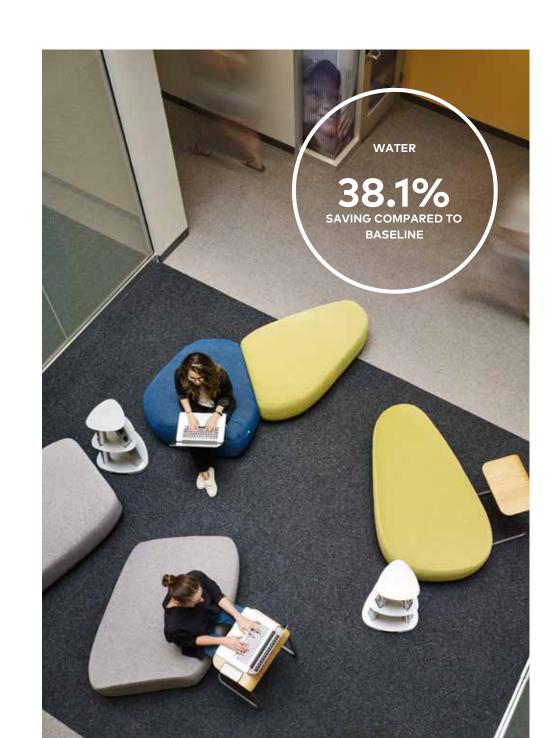




SUSTAINABLE STRATEGIES

- Fixed horizontal and vertical louvers on the building's exterior reduce solar heat gain and glare.
- Designed glazing percentages based on combination of solar orientation and optimizing views.
- Reduced ventilation rate of anatomy lab when unoccupied





Seamans Center for the Engineering Arts and Sciences - South Annex Addition UNIVERSITY OF IOWA, IOWA CITY

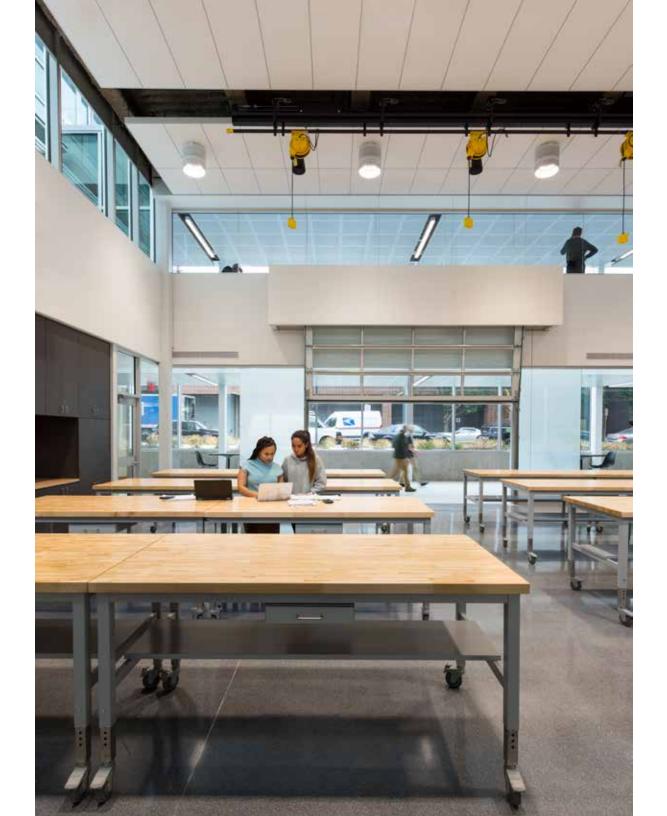


BNIM is currently completing construction documents for the South Annex Addition to the Seamans Center for the Engineering Arts and Sciences. The goals for this project include creating a series of spaces that not only provide for functional use, but to help build a larger community within the entire engineering facility and foster innovation teaching, learning, and discovery.

The project includes new formal and informal research spaces, varied sizes of active learning classrooms, student development and tutoring spaces, and the creation of a new common lobby centered around a technology-rich student project design studio that brings the entire engineering community together. Renovation work in the existing building includes creating an Engineering Learning Commons adjacent to the engineering library space. The Commons will include flexible study and presentation spaces for faculty and students use.

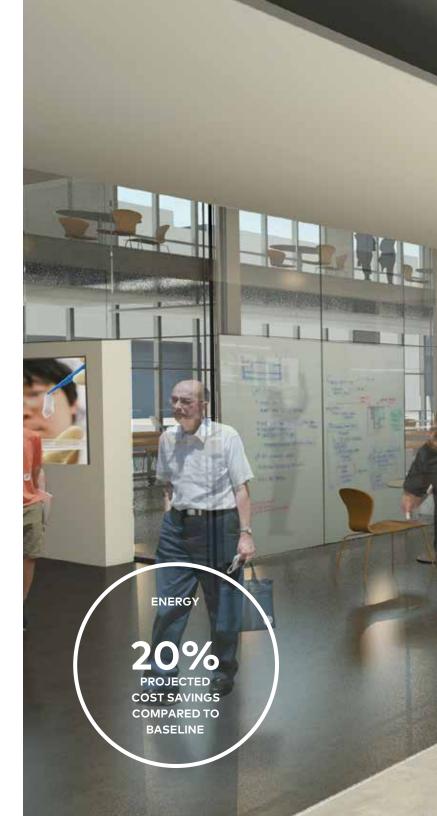
65,739 SF Est. Completion in 2017

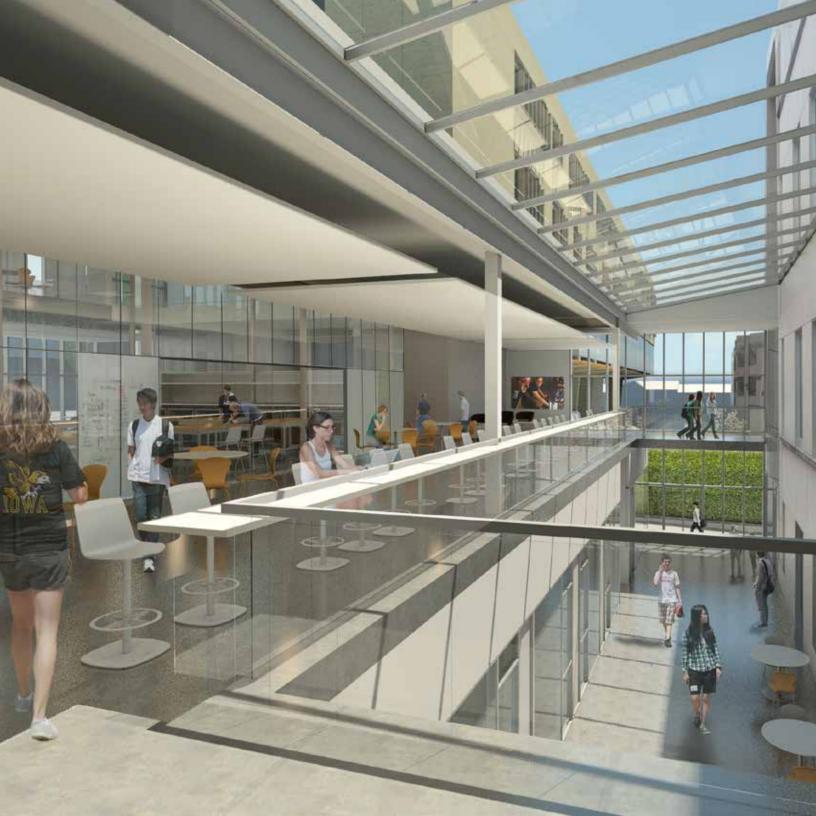


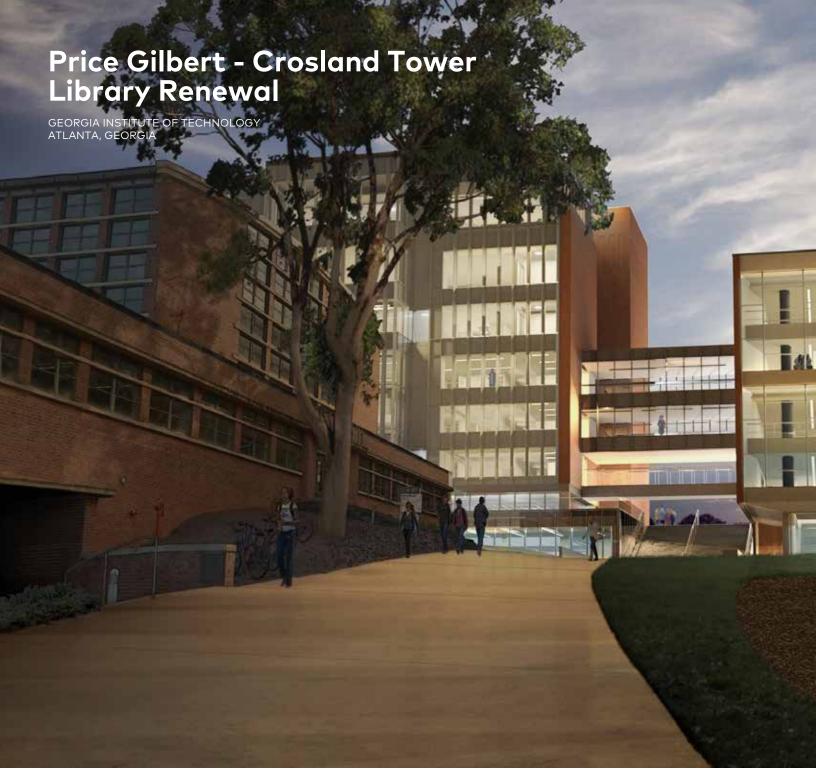


SUSTAINABLE / NOTABLE FEATURES

- 68,094 SF facility
- Building will serve as a living laboratory that creates an attitude of discovery and innovation.
- The majority of the building is elevated above the grade plane to increase open space on the urban site and to create covered bicycle parking.
- The elevation also allows air and light to create a more habitable urban environment on a congested campus site.
- Above and beyond approach to universal design includes a digital kiosk with assistive learning technology and a comprehensive wayfinding strategy.
- The site / building design offers 24/7 accessible access up and down a steeply sloped site, which was previously a significant barrier in a heavily utilized pedestrian path.
- Prior to the project, stormwater would run-off down a steep slope to the storm sewer and near by river. The site now incorporates biocells to slow, cool, and clean storm water.
- Native landscaping and ground covers also create a more sustainable site condition.
- There is enough detention to reduce the postdeveloped 100-year storm to be less than half of the pre-developed rate.









The adaptive reuse of Price Gilbert Memorial Library and Crosland Tower at Georgia Institute of Technology will transform the two campus buildings into the Research Library of the 21st Century. The project is a critical initiative of the university's strategic plan and vision for transforming the campus into a knowledge-based community. The transformation is founded on changes in the way that students and faculty currently use the library, as well as future trends in library utilization on peer campuses across the country. Georgia Tech conceived of a place where knowledge is not simply stored, but generated.

230,000 SF Est. Completion in 2018 (Phase 1) LEED Gold targeted





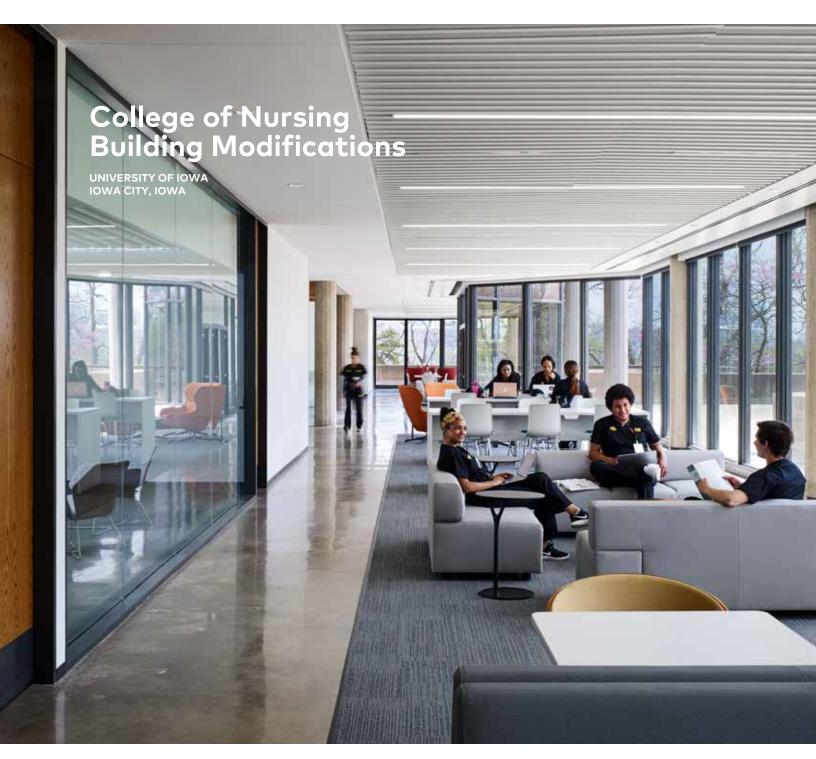














The University of Iowa Nursing building was built in 1971. A brutalist concrete midcentury modern structure, it houses programming for the College of Nursing, including regular on-campus curriculum as well as continuing education. Sited on the West campus and positioned high on a limestone bluff 40 feet above road level, the glass façade around the perimeter of the first level of the three-story building provides unprecedented views east across the Iowa River towards downtown Iowa City and the historical state capitol.

While the original structure made a powerful architectural statement, over time, the spaces inside became inefficient programmatically for the College's needs. A loop corridor on the perimeter of the interior left classroom, lab, and office spaces relegated to the building core, windowless and with little to no access to natural daylight. For the renovation, the design teams focus was on students and the University community. The space was designed to be inviting to new nursing students and visitors from across campus, support active learning and modern health science pedagogical objectives, and encourage interaction and collaboration among budding nursing professionals.

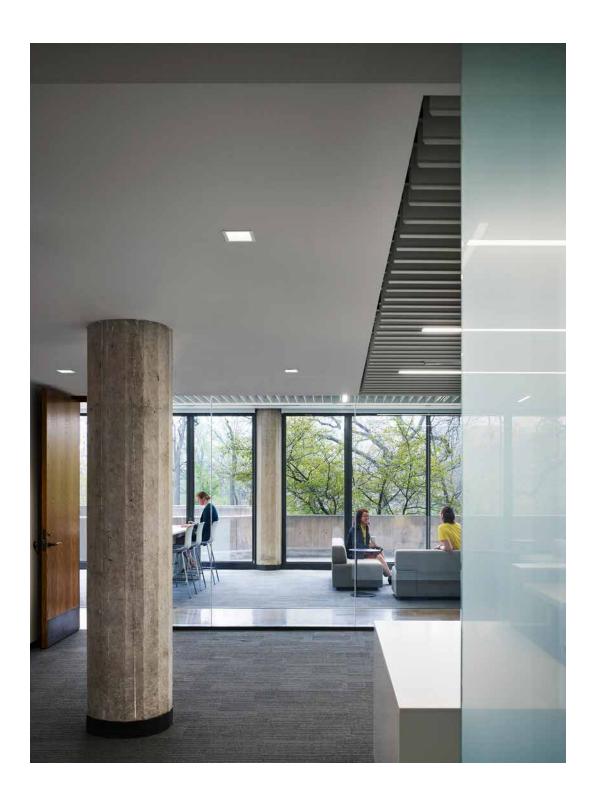
A systematic approach to the reorganization of spaces was based on the building's original five-foot module. Giving light back to the occupants and the spaces most used became the primary objective. The perimeter circulation became student commons areas, and rearranging walls with floor to ceiling glass partitions for lab and classroom spaces allow for natural daylight to penetrate nearly all occupiable spaces. Programming for the new space includes an entry lobby, offices, the dean's suite, general assignment classrooms, student commons, a diversity resource center, a student success center, and administration spaces. Eight of nine classrooms include AV systems to support an active learning format, including remote student integration.

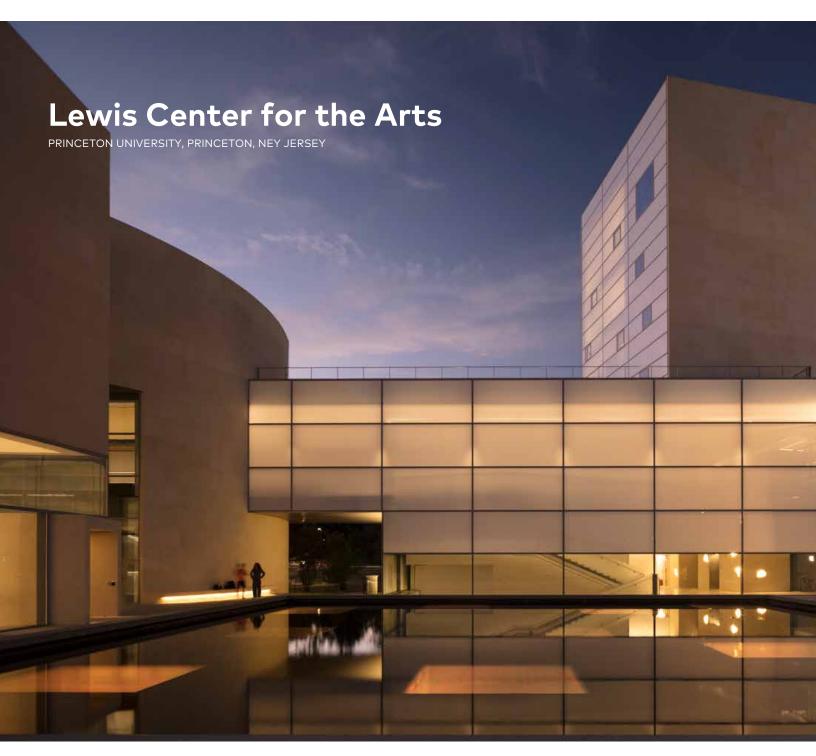
By maximizing the buildings potential and focusing on a long life, loose fit approach to a flexible and forward-looking learning environment, the College of Nursing renovation offers the University a highly efficient space centered on human health and productivity.

85,000 SF Completion 2019









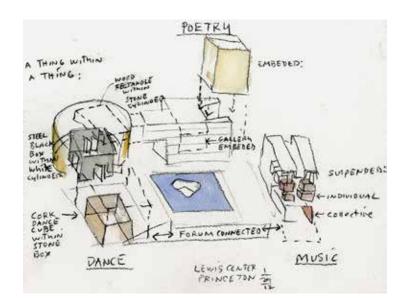


Princeton University's Lewis Center for the Arts is an academic program comprised of Writing, Dance, Theater, Visual Arts, and the Princeton Atelier, a program that brings together artists from different disciplines to collaborate for one dedicated semester. The new Lewis Center for the Arts facility is a physical representation of these creative forces, dedicated to the belief that the arts lift the human spirit.

The 139,000 square foot complex consists of three contemporary buildings designed around a courtyard. The buildings will share a common reception area and will house several public spaces, including an art gallery, a black box theater, a dance studio and a music rehearsal room. The complex will also house faculty and administrative offices and a box office.

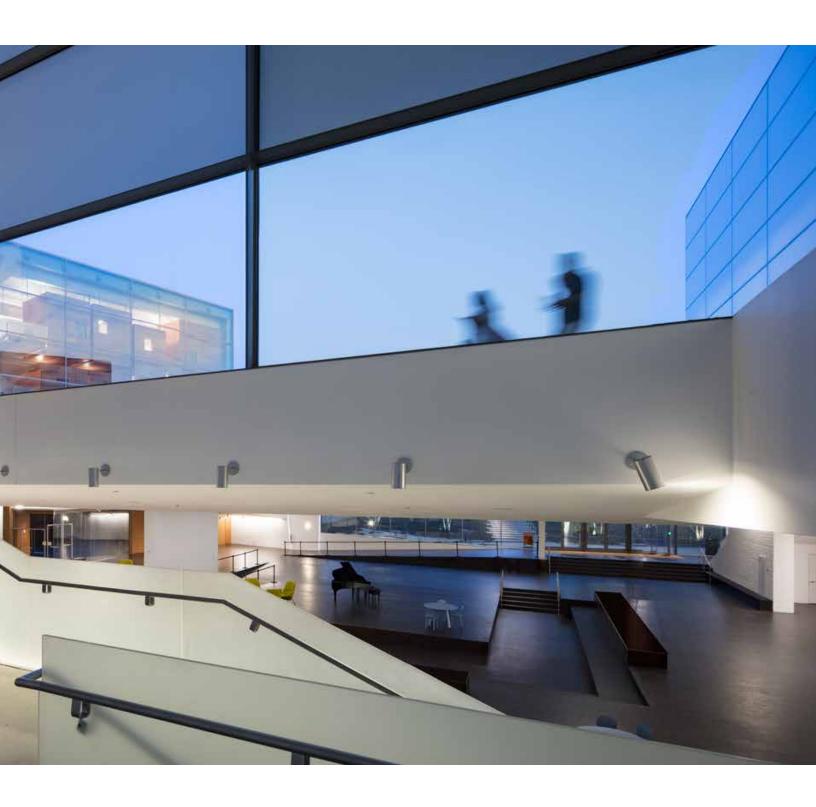
With Steven Holl Architects

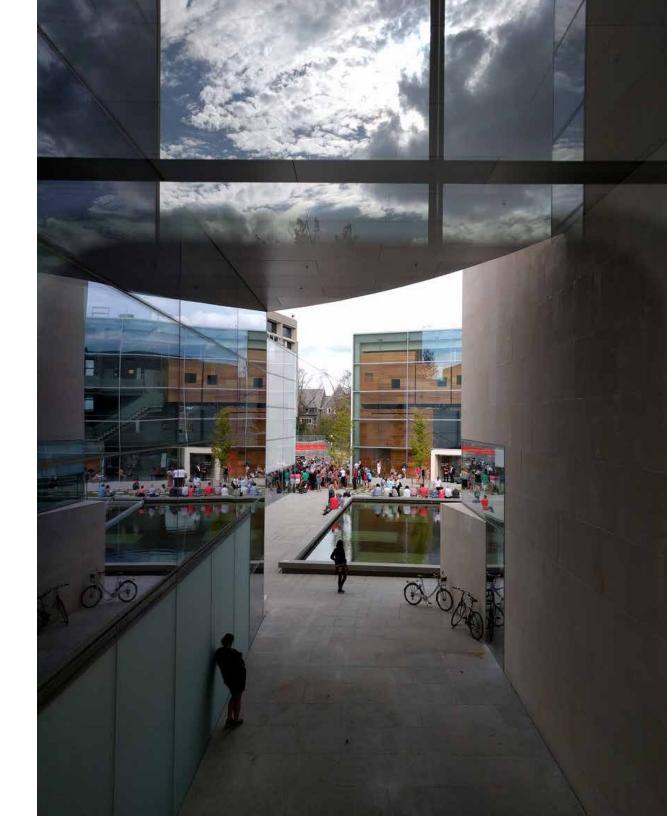
139,000 SF Completion 2017



The project has an energy goal of utilizing 50 percent less energy than required by current energy codes. Princeton's policy is not to pursue LEED, but to go beyond LEED and focus on maximum carbon reduction throughout the design, construction and operation of the facility. To achieve this goal integrated sustainable features are being considered, including geothermal heating and cooling, green roofs, improved exterior envelope performance, displacement ventilation system; mixed mode ventilation system; radiant heating and cooling, and passive design strategies of building orientation, shading, natural light, natural ventilation and thermal mass. In furthering environmental stewardship goals, sustainable material selection and construction management practices also will be key components of the building project.







AWARDS

2017 Best Building - Mid Atlantic Architect's Newspaper

2018 Project Of The Year Award Professional Engineers Society Of Mercer County

2018 New Good Neighbor Award New Jersey Business & Industry Association

2018 Best Regional Project, Culture / Worship Category Engineering News Record

"BNIM's leadership has been critical to the success of this project. We have been greatly impressed by the depth of their staff at all levels, whether related to design or technology, building codes, sustainability, envelope detailing, waterproofing or specifications. Their goal has been to make the finished product the best it can be, consistent with our budget. BNIM is a valued team member, willing to listen closely, to offer their professional advice, to be patient, and to lead."

JANE CURRY, AIA, LEED AP

Sr. Project Manager, Princeton University Office of Design and Construction





In 2008, the original University of Iowa School of Art and Art History building experienced significant flood damage. The 1930s Art Building was no longer a viable venue for arts education. The new University of Iowa Visual Arts Building provides studio space for ceramics, sculpture, metals, photography, printmaking, 3D design, intermedia, animation, and graphic design, as well as graduate student studios, faculty and staff studios and offices, and gallery space.

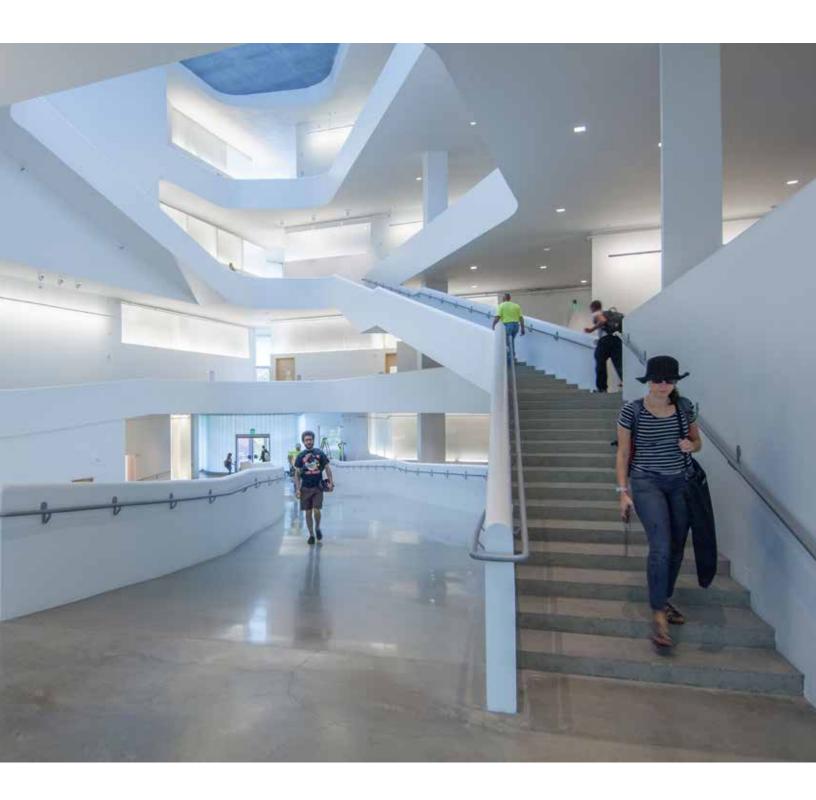
with Steven Holl Architects

126,000 SF Completion in 2016 LEED Gold Registered



Sculptural open stairs are shaped to encourage meeting, interaction and discussion. Some stairs stop at generous landings with tables and chairs, others open onto lounge spaces with built-in seating.





AWARDS

2017 AIANY Design Award Honor Award, Architecture

2016 Interior Design Best of Year Award, Education

2016 Architects Newspaper Building of the Year, Midwest

2017 Chicago Athenaeum American Architecture Prize

2017 The Weidt Group, Commercial New Construction Excellence In Energy Efficient Design

2017 Metal Construction Association Chairman's Award For Overall Excellence

2017 SARA NY, Design Awards Design Award Of Excellence

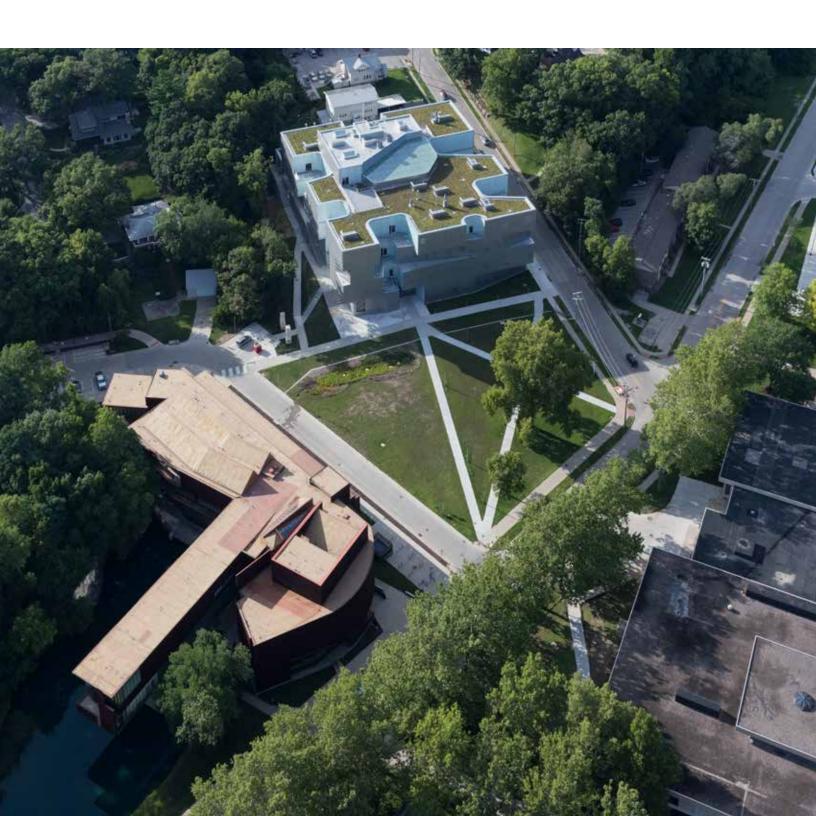
2017 ENR, Midwest Regional Best Higher Education/Research Project

2017 Metal Construction News MCN Building And Roofing Awards, New Metal Walls

2016 Interior Design
Best Of The Year Award Winner - Education

2016 Architect's Newspaper Building Of The Year Award, Midwest





University of Iowa Informatics Initiative (UI³) UNIVERSITY OF IOWA IOWA CITY, IOWA



The University of Iowa introduced a campus-wide initiative designed to foster collaborations and cultivate research opportunities across disciplines. The initiative joins the computational discipline with the humanities, arts, natural, biological, health, and social sciences to identify and resolve current issues. Researchers and faculty who work within these different disciplines needed a place that would allow them to connect and collaborate, to work together, and to work privately.

The University of Iowa Informatics Initiative (UI³) creates a physical and intellectual home for the initiative within existing building shell space at the university. Establishing a culture and identity for this new collaboration was an important goal of the project. While the individuals who are part of the program are dispersed across campus, a common ground is found in the work they do. By offering a rich variety of functional opportunities, the design ensures users are attracted to the space and utilize it regularly, regardless of where their departments are located. The space draws together these individuals, who share a common pursuit, creating opportunities that lead to academic collaborations and innovations.

11,913 SF Completion in 2016 During the programming process, BNIM and the University of lowa determined that people – and the connections between them – were the most important element that a space can offer. The design was shaped by organizing a spectrum of spaces to support various modes of work, optimize interactions, interweave relationships, and promote visual connections while respecting appropriate levels of privacy. The diverse disciplines and backgrounds within the initiative necessitated a single unifying element. Design cues were drawn from genetics – a human data element and common thread that binds these disciplines together. Visual connections through and across the entire space inspire curiosity and promote engagement.

Bent linear ribbons, inspired by the graphic linearity of human genome mapping and the ribbon-like structure of DNA, serve as a spatial organizing device. This unifier was interpreted in various scales, from the organization of spaces united by contiguous bands, to surface treatment such as glazing frit patterns. The frit pattern, which provides privacy and writable space at key areas, was based on the pattern of the human genome and developed using digital algorithms. Within the pattern itself the coded message can be found, revealing the name of the initiative. This series of consistent gestures at various levels and scales establishes and reinforces a sense of place and identity unique to the program.

A central core of collaboration rooms spans east-west in the space, woven together with a series of bent wood ribbons. Secondary ribbons rendered in white capture and organize smaller scale collaboration and focused workspaces adjacent to those contained by the central spine. These spaces take advantage of their proximity with connectivity to the central spine as well as views to the exterior.









AWARDS

2017 IIDA Mid-America Design Awards Gold Award, Higher Education, Research

"Working with BNIM was great. They were very collaborative and worked with us to help us better define our needs and vision, and then they came up with a wonderful design. We wanted to create a space that would help us bring the Informatics community together — from all corners of the University, from art to medicine — to foster collaborations, scholarship, and training."

GREGORY CARMICHAEL

Director

University of Iowa Informatics Initiative





Over the last decade, the College of Architecture, Planning, and Design (APDesign) at Kansas State University has risen in stature and recognition among the nation's design programs. Today, the program's home in the historic Seaton Hall complex no longer supports the college's current and future needs. Each semester, APDesign students, faculty, and visitors together explore the potential of design to impact human experience, health, and happiness – the new and renovated facility is born of these same pedagogical objectives.

The new addition stitches together the two renovated historic buildings of Seaton East (1908) and Mechanics Hall (1874), and is punctuated by "The Jewel," a transparent, three-story social container and entry courtyard that assumes the new face of APDesign. Located in the heart of the campus network, the facility is a hub of interdisciplinary interaction, engaging KSU in a unified expression of innovation, excellence, and sustainability.

With Ennead Architects and Confluence

191,247 SF Completed in Fall 2017 LEED Gold Targeted











The Psychological and Brain Sciences Building holds an important place on the campus of the University of Iowa, serving as a new gateway to the East Campus. The facility is designed to serve as the new front door for the Department of Psychological and Brain Sciences, providing administrative functions, research laboratories, graduate student offices, collaboration space and faculty offices. In addition, the building will provide general purpose classroom facilities including active learning classrooms, breakout rooms and learning commons space for studying, gathering and socializing.

85,000 SF Estimated Completion Spring 2018









Washington University in St. Louis (WUSTL) has undertaken a major endeavor to transform the East Campus area to accommodate future growth and create a new gateway to the surrounding city. The projects have been divided into three phases, each building upon the foundation laid by the previous phase.

In Phase 1, BNIM partnered with Sasaki and Andropgon on the East Campus Framework Plan. The team developed the fundamental strategies of open space concepts and program, identified pedestrian pathways and connections, and established pedagogical and sustainability goals for buildings and landscape, among other strategies. The campus contains significant opportunities for this development but was somewhat restricted by St. Louis County's mandate to provide a specific amount of parking. To create a vibrant campus with thriving landscape and responsible development that respected the prestigious campus history, the plan explores creating a new underground parking structure. This would allow for future growth and meet WUSTL's programmatic needs.

During the second phase, BNIM collaborated with Michael Vergason on the master plan, which delved deeper into the framework, identifying specific strategies and potential projects. BNIM and Michael Vergason worked together to refine building placement and scale of five new structures — which are currently underway — plus the addition to the Kemper Museum, including the parking structure.

In the third and final phase, six projects and landscape work are currently being executed. BNIM's primary role in this phase is to serve as architect of the new underground parking structure, along with KieranTimberlake. In addition, BNIM participates on the advisory committee with Moore Ruble Yudell, KieranTimberlake, and Michael Vergason.

Renderings in collaboration with KieranTimberlake. Select renderings provided by Studio AMD.



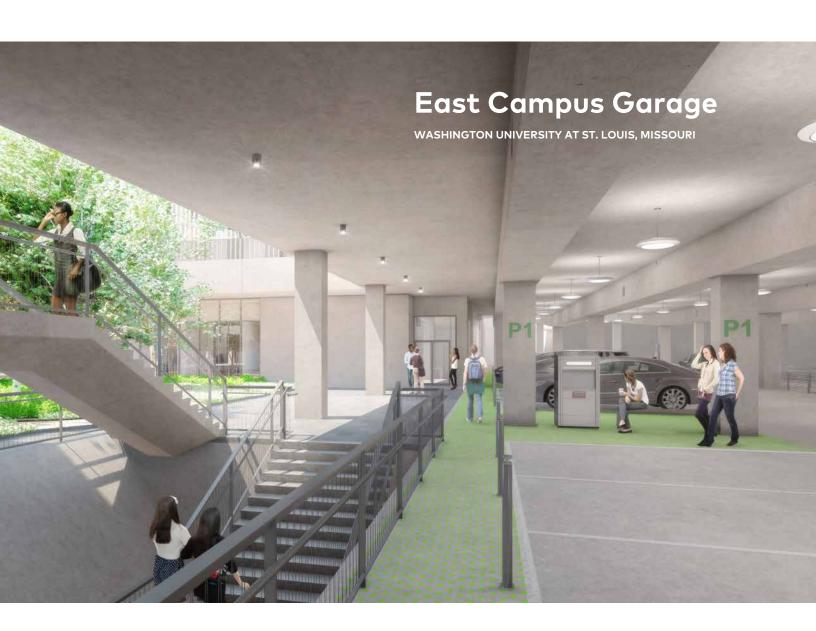


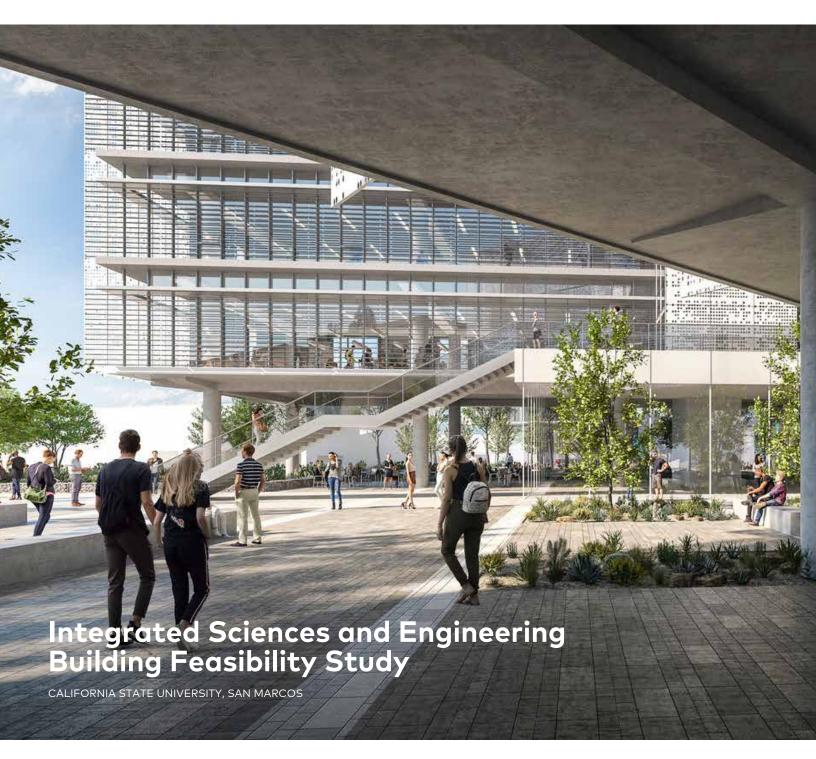
Following the East Campus
Framework Plan (with Sasaki and
Andropogon) and the East Campus
Master Plan (with Michael Vergason), BNIM continued its collaborative relationship at Washington
University in St. Louis, this time
with KieranTimberlake on a new
underground parking garage.

The new garage is the connective tissue for all of the buildings on campus. It also plays a prominent role in the visitor experience. The overall goal of removing cars from the landscape and creating comfort, safety, and beauty for pedestrians was paired with the goal of creating a welcoming presence for visitors to the campus when entering campus through the new parking facility. As such, it has been carefully crafted to uphold WUSTL's prestigious reputation, designed with the intention of making visitors and other users feel welcome and comfortable when coming to campus.

Knowing that the need for parking will eventually decrease over time, the team designed the garage to be transformed into academic or other campus space in the future. The design incorporates higher floor-to-floor dimensions, heavier floor loads for anticipated occupancies, accommodation for connections to daylight and landscape above, and other strategies that will enhance the transformation of parking space into people spaces.









Located on a 304-acre hillside overlooking the city of San Marcos, the California State University San Marcos (CSUSM) has far exceeded growth projections with current enrollment of over 17,000 students. In particular, the College of Science and Mathematics (CSM) has experienced growth exceeding expectations. Prompted by existing space constraints and deficits, a need to provide space for a new engineering department, and accommodate future college growth, the University engaged BNIM to develop a feasibility study for a new 110,000 GSF academic building.

BNIM, in collaboration with RFD, developed a program and Zero Net Energy concept design for the College of Science and Mathematics, comprised of the physics, computer science, software engineering, and electrical engineering departments. Primarily composed of teaching and research laboratories, classrooms, student spaces, and faculty and staff office spaces, the Integrated Sciences and Engineering Building will be the first phase in the design and construction of a series of projects that will support the growth of CSM.

Collectively, the design team set out to imagine the future of CSM, and the impact this could have on the greater CSUSM community. A series of workshops, interviews, and interactive presentations were held to gain feedback which directly informed recommendations for the project. The future College of Science and Mathematics Academic Building will be designed to raise the profile, exposure, and visibility of CSU San Marcos; strengthen partnerships with local industries; support innovative learning and research on campus; and allow for a collaborative, interdisciplinary, & professional culture.







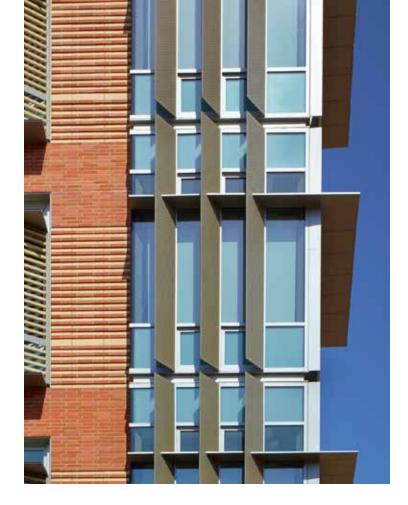


The development of the Western Institute of Nanoelectronics (WIN) and Green Engineering and Metrology (GEM) building (Phase I) on the UCLA campus represents the highest of aspirations for the research community in supporting the advancement of clean and green technologies. The building houses three primary driving Centers of Excellence in the field of nano-systems and clean technology.

The WIN-GEM facility provides space for faculty and their industrial collaborators to perform research and development in energy harvesting, storage, conservation and management. As such the facility is thoughtfully designed for collaborative, multidisciplinary research, and the building itself is thought of as an expression and armature of that research.

With Moore Ruble Yudell

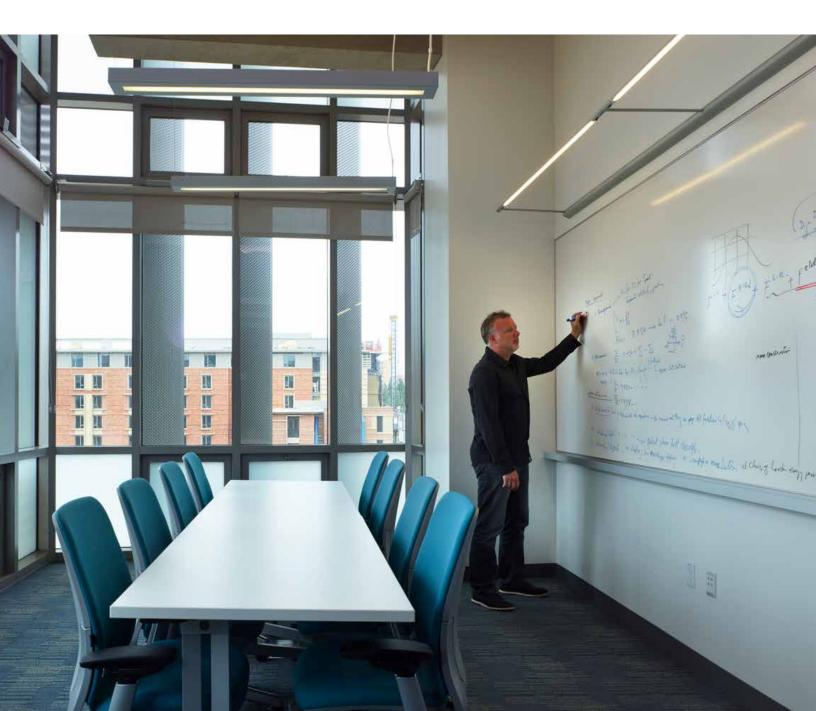
61,625 SF Completion in 2014 LEED Gold certified

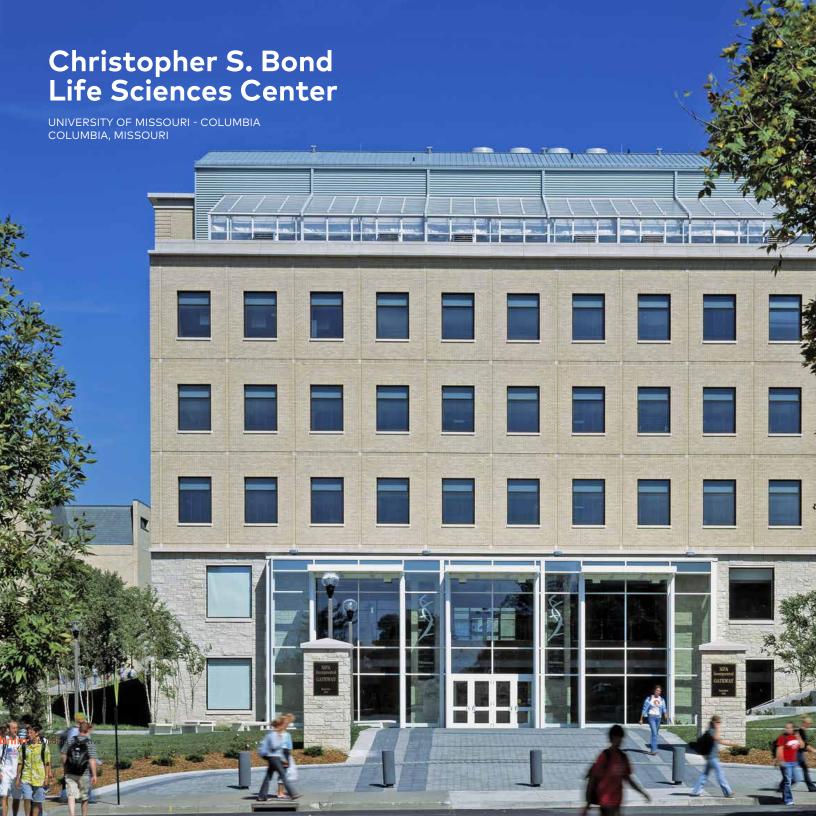


SUSTAINABLE / NOTABLE FEATURES

- 61,625 SF facility
- Active chilled beams in dry labs
- Natural ventilation in post doc office suites mixed-mode VAV
- Demand ventilation in wet labs to reduce air change rates
- Exhaust stream monitoring to reduce fan power
- Fume hood sash management by reduced height to reduce air changes
- Dry lab return air used as supply air in wet research support space alcoves
- Grey water system reclaims waste RO process water for toilet flushing
- Façade shading element for solar heat gain control











The Life Sciences Center at the University of Missouri - Columbia unites faculty and students from several schools and programs into one, collaboratively focused research center. The Colleges of Agriculture, Food and Natural Resources, Arts and Sciences, Veterinary Medicine, Human and Environmental Sciences Engineering, and the School of Medicine engage in joint research into genomic and biomolecular structures. State-of-the-art laboratories, shared meeting areas and public spaces provide unsurpassed opportunities for interdisciplinary biomedical science and agricultural biotechnology research. The project represents one of the tightest bid spreads in MU History, coming in more than \$1 million below final estimates, allowing for the construction of several alternates.

239,714 GSF Completion in 2004



With the idea that a healthy building illustrates the principles that life sciences embody, research, teaching and education converge in naturally daylit laboratory spaces, generous meeting areas, and informal teaming areas located off of the primary circulation spaces. The building features a central daylit atrium, strategically connecting the wings in an east-west direction to create a lively corridor called 'Main Street.' The naturally lit atrium, which centralizes faculty and research offices, a café and one of the reading rooms, encourages and facilitates interaction among users.





"The Building has been set up with lots of what we call collision zones. In Chemistry when things collide you get a reaction. When two people can interact in a hall or corner discuss an idea, that's when you get new ideas and new things happening. Students see how this happens they grow and thrive under this."

DR. G. MICHAEL CHIPPENDALE, PH.D. PROFESSOR EMERITUS DIVISION OF PLANT SCIENCES





AWARDS

2005 HONOR AWARD, EXCELLENCE IN ARCHITECTURE AIA Kansas

2005 MERIT AWARD

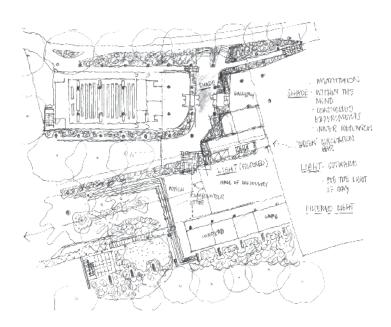
AIA Mid-Missouri





The Fayez S. Sarofim Research Building, home of the Brown Foundation Institute of Molecular Medicine, is a comprehensive research facility on a tight urban site within the Texas Medical Center campus. This facility is designated to support research collaboration in the area of molecular medicine, particularly in genetics and proteomics and bioinformatics. The Sarofim Research Building houses dry and wet laboratories, offices, conferencing areas, a 200-seat assembly facility, and appropriate support spaces. The design creates a dynamic, interactive environment conducive to research and learning on multiple levels. From the relationship with the outdoors, to the architecture of the building, to the interior spaces, the approach considers form and function holistically, promoting the productivity and well-being of users.

229,250 SF Completion in 2005

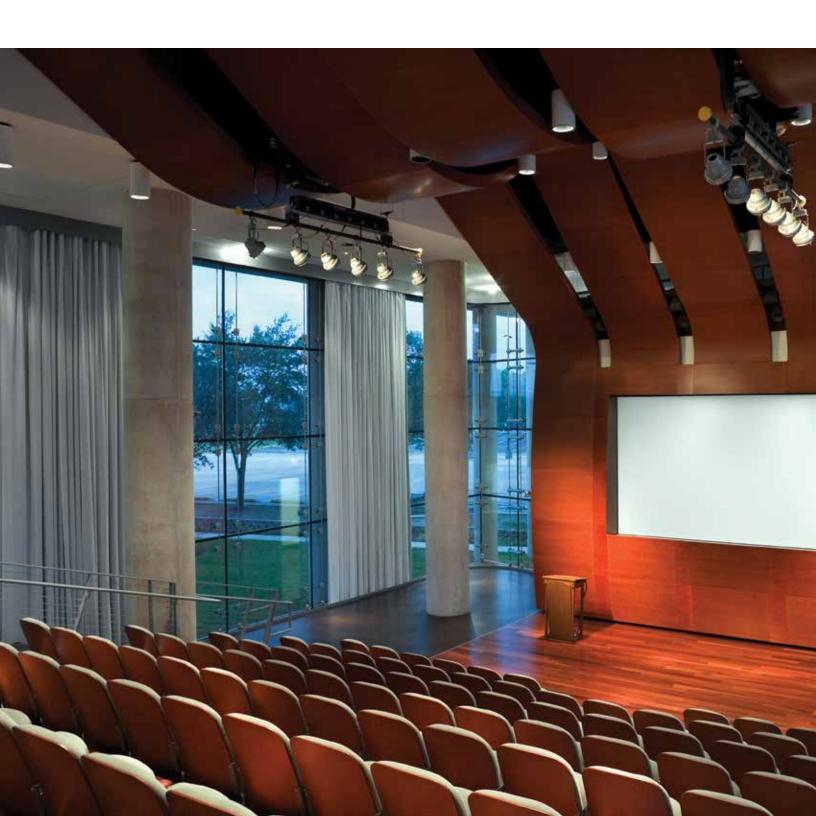




The building incorporates sustainable design strategies at many scales. Building orientation allows optimum penetration and control of natural light in relationship to the differing programmatic elements of flexible laboratory space, support laboratories, office and common areas. The separation of office and lab elements enabled the environmental control system to capture and reuse energy that would normally have been wasted. The reinforced concrete column and slab structure employs high fly ash concrete thus reducing the upstream environmental impact of the building. The building also has a specialized facade design that responds to the Houston climate.

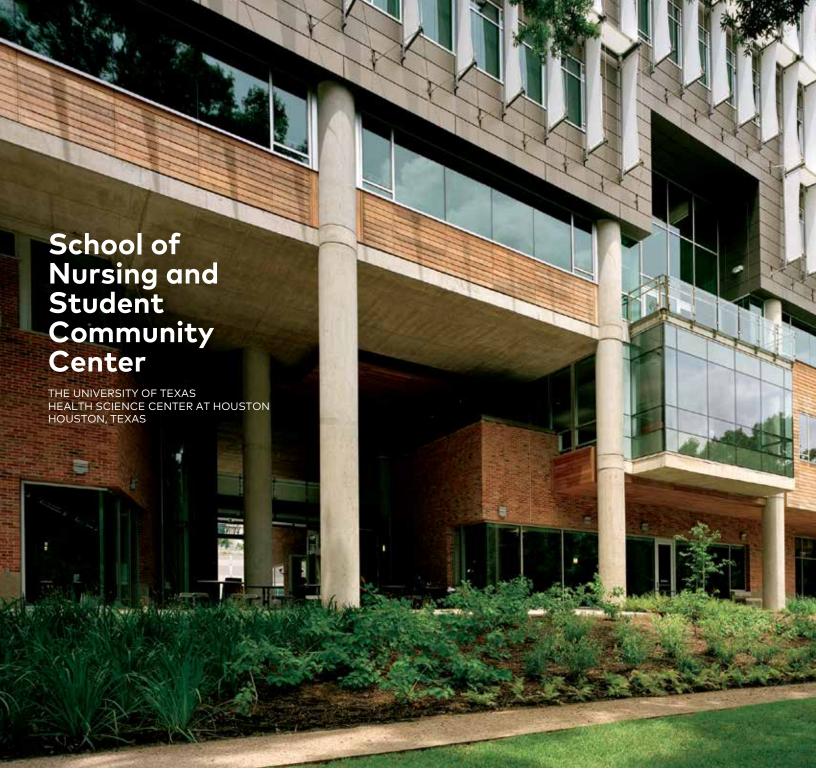














The University of Texas Health Science Center in Houston is one of Houston's premier teaching institutions for health-related professions. As such, it recognized its responsibility to take the lead in the creation of an environment that speaks to living health-centered lives. This facility was designed with a focus on creating a benchmark for pedagogy. Goals of increased air quality, increased natural daylighting, reduction of polluting emissions and run-off, and increased user satisfaction and productivity were achieved using the LEED rating system as a platform. The building includes approximately 20,000 square feet of state-of-the-art classrooms, a 200-seat auditorium, cafe and dining room, bookstore, student lounge, student government offices, research laboratory and faculty offices.

The School of Nursing utilized a holistic design approach that unites façade design, building systems, resource conservation and materials reclamation in creation of a high-performing, integrated educational and academic workplace facility. The strategies have a quantifiable return on investment: the annual purchased utilities cost for the School of Nursing is approximately 60% less than comparable buildings on the campus. In addition, rainwater storage tanks capture approximately 826,140 gallons of rainwater or "grey" water (non-potable water) per year fulfilling the estimated 42,000 gallons needed each month for toilet flushing and irrigation.

With LakelFlato

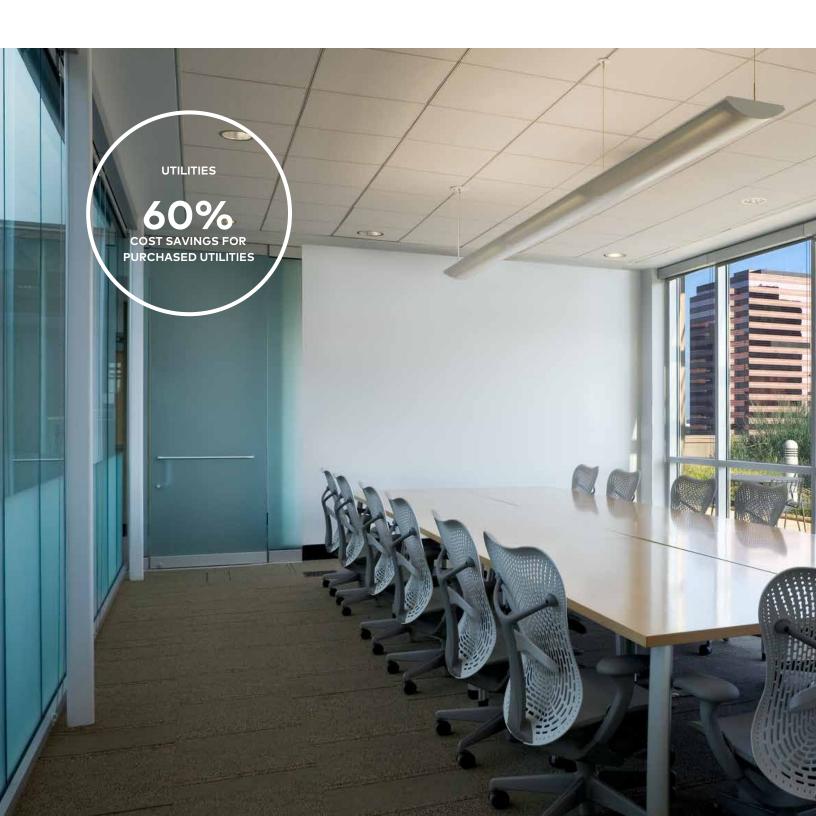
195,000 SF Completion in 2005 LEED Gold certified



Because of the limits of the available site, the building is oriented with its long axis in a north-south direction. A breezeway connection—a two story open air space carved from the lower levels of the building—runs east to west allowing the entrance and the main public spaces to be oriented toward Fay Park. Each façade of the building was designed with unique fenestration and sun screening strategies, all of which were computer modeled by BNIM to maximize building performance.









SELECT AWARDS

2006 TOP TEN GREEN PROJECTS AWARD

AIA Committee on the Environment (COTE)

2006 HONOR AWARD

Texas Society of Architects

2006 REGION IV ENERGY PROJECT OF THE YEAR

Association of Energy Engineers (AEE)

2005 HONOR AWARD, ARCHITECTURE

AIA Houston

2005 HONOR AWARD, SUSTAINABLE ARCHITECTURE

AIA Houston

2005 AWARD FOR INNOVATIVE SCHOOLS, RECOGNIZED VALUE AWARD

DesignShare International

2004 HONOR AWARD

AIA San Antonio

2004 HONOR AWARD, EXCELLENCE IN ARCHITECTURE

AIA Kansas City

2004 HONOR AWARD

AIA Kansas

2004 HONOR AWARD, EXCELLENCE IN SUSTAINABLE DESIGN

AIA COTE Kansas City

2004 MERIT AWARD

AIA Central States Region

bnım

BNIM is an innovative leader in designing high performance environments. BNIM's instrumental development of the USGBC, LEED, and the Living Building concept, combined with projects, methods, and research, shaped the direction of the sustainable movement. Through this involvement, the firm has redefined design excellence to elevate human experience together with aesthetics and building performance. In practice, this multifaceted approach to design excellence has yielded national acclaim, including the AIA National Architecture Firm Award, and consistent design recognition nationally and internationally. BNIM is Building Positive, a notion that describes how our practice leverages its collective capacity for design thinking to solve issues at every scale in a way that is focused on building the positive attributes of community and the built environment. Through an integrated process of collaborative discovery, BNIM creates transformative, living designs that lead to vital and healthy organizations and communities.

INDUSTRY LEADERSHIP



Kansas City, Des Moines, San Diego



Staff



Principals



LEED AP Staff



Industry Fellows



AIA National Presidents



2011 AIA National Architecture Firm Award

TRANSFORMING THE INDUSTRY



Founded the AIA Committee on the Environment



Key Role in the Development of USGBC, LEED, and Living Building



LEED Certified Projects



LEED Platinum Projects



World's First LEED Platinum and Living Building



AIA/COTE Top Ten Building Awards



Awards for Design, Leadership, and Planning

SERVICES

Architecture Interior Design Planning

Landscape Design Sustainable Consulting Existing Buildings Graphic Design Research Workplace Planning



ONE BNIM

Our primary offices and job locations operate as "One BNIM." This strong support system provides focused, personal service centered in each office as well as firm-wide resources, including talent and technology, which are shared through a mesh of interaction.

With the full capacity of our multiple offices and a studio structure to ensure everyone has a voice, we are a united in our drive for design excellence.

CORE VALUES

- We seek a better way.
- We are committed to long term thinking and measurable improvement as a way of life.
- We seek to increase the vitality of people, planet and prosperity equally.
- We are passionate about generous design, it inspires people and changes the world.
- We insist on being excellent in execution, performance and results.
- We care about what our buildings do and how they positively impact lives.
- We operate with a spirit of authenticity and servant leadership.
- We embrace diversity in our culture in perspective, voice and skills.
- We promote integrated thinking and a collaborative dialogue of discovery.
- We embrace the challenge of innovation and the advantage of replication.

