GBBN

TOGETHER, WE

ENHANCE EXPERIENCE & EMPOWER PEOPLE

THE CULTURE OF HIGHER EDUCATION

EDUCATION SHAPES LIVES. SPACE SHAPES BEHAVIOR.

CONTENTS

Using space to address the whole student—mind, body, and spirit—is the difference between just a building and intentional architecture. Thoughtful design positively impacts student and research outcomes and advances your institution's strategic initiatives.

We use a variety of lenses to find the right solution to your institution's biggest challenges. Our firmwide practices of sustainability & resilience, digital fabrication, and primary research expertise help ensure our clients invest their design dollars wisely, and in ways that will have the greatest impact and return on investment.

Design, like education, is constantly evolving, but we begin every project by using a time-tested tool. Our ears.

LISTEN

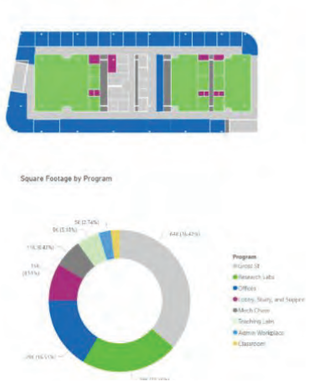
Humans were given two ears and one mouth. We believe these tools should be used proportionally. By listening to your leadership, stakeholders, and users we're able to distill (often disparate) desires into shared goals. Close listening informs the comprehensive approach we take on projects at all scales, from studies to renovations to new buildings.

PROGRAMMING & STUDIES

By listening we help answer critical questions as you embark on a new project. Can your desired program fit on your desired site? How can the necessary pieces fit together efficiently while aligning with an institution's mission, vision, and goals? What does your masterplan say about density on different parts of your campus? What will attract current and prospective students?

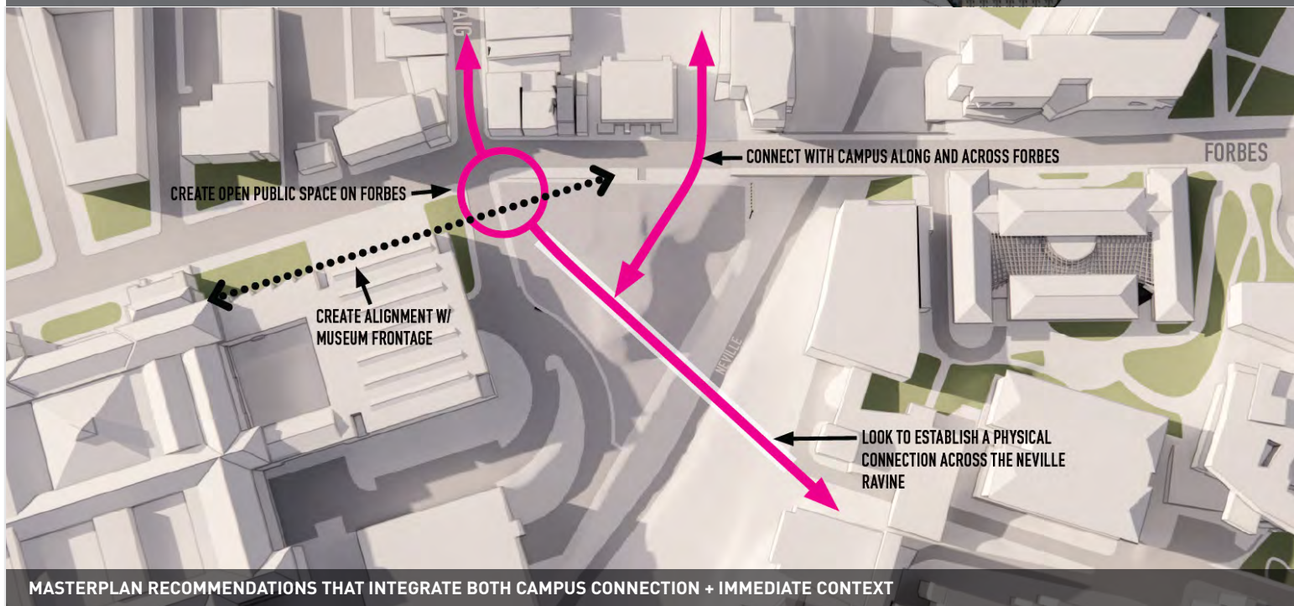
How will it feel when a student walks in the door? How will the organization or arrangement of space inspire a student to make a breakthrough/make a friend/make a memory/and make positive associations that last a lifetime?

We listen closely and think broadly—from how it all fits to how it all feels.



For Carnegie Mellon University's Building Study helped define the site, budget, goals, program, and requirements for a transformational new science building.

A STUDY OF VIEWS IN AND OUT OF THE SITE AS WELL AS THE BUILT CONTEXT OF THE IMMEDIATE AREA.



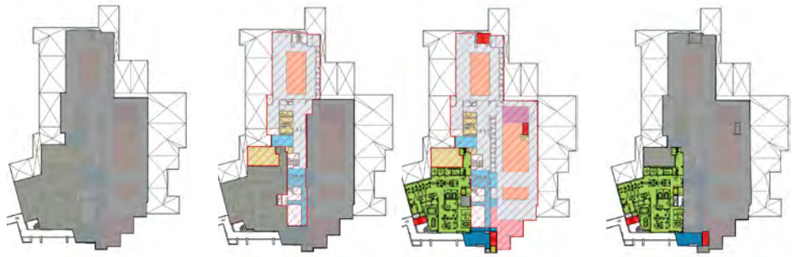
MASTERPLAN RECOMMENDATIONS THAT INTEGRATE BOTH CAMPUS CONNECTION + IMMEDIATE CONTEXT

VISIONING
& GOAL SETTING

At a project's infancy, even an institution's most disparate stakeholders often agree on a singular point: we know we need to do something, but what?

Our proven process of listening and distilling brings clarity and prioritization to projects that may feel overwhelming. We work to align multiple project stakeholders around a common vision and goals. Together, we mine existing masterplans for moments that maximize impact and find hidden opportunities that can deliver the best return on your design investment.

We combine robust programming documentation along with images and narratives that tell the story of a project to help generate buy-in from stakeholders and excitement from potential donors.



Our work on the University of Cincinnati, Langsam Library study helped align stakeholders around a shared vision of making the library a welcoming space for people through accessibility, views, daylight, programming, and tools that enable digital scholarship.

UNIVERSITY OF CINCINNATI, LANGSAM LIBRARY

UNIVERSITY OF CINCINNATI, LANGSAM LIBRARY

ADVOCATE

There’s nothing worse than an elegant solution to the wrong problem. We look at your goals and challenges through different lenses—including space design, sustainability & resilience, research, and fabrication. This approach allows us to surface the right problem and advocate for your best interest to enhance every opportunity.

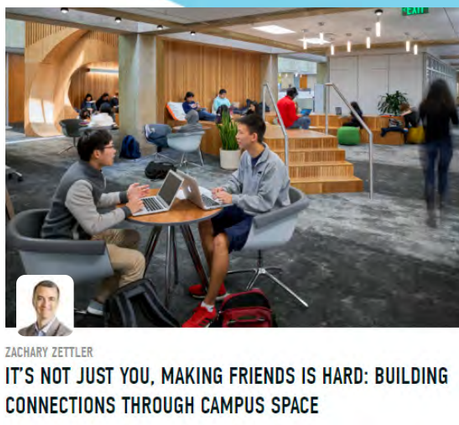
EXPERTISE

Director of Higher Education, Zachary Zettler, brings 20 years of experience to higher education projects that achieve the goals of university leadership and support positive student and research outcomes.

His commitment to higher education extends beyond expert project management; his thought leadership on issues shaping higher education are regularly featured by national media outlets, and he is frequently invited to present insights at regional and national conferences including SCUP and Tradeline.

Principal, Matthew Plecity's architecture and landscape design expertise are layered with his experience as a former university instructor.

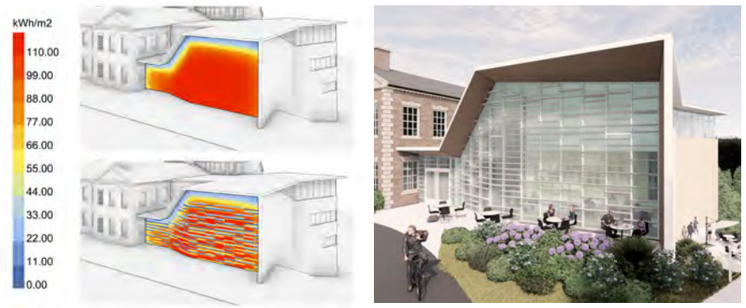
He leverages his understanding of student, site, and context to design campus spaces that connect people to people and maintain strong relationships to their environments. He regularly presents his insights at regional and national conferences including SCUP and Greenbuild.



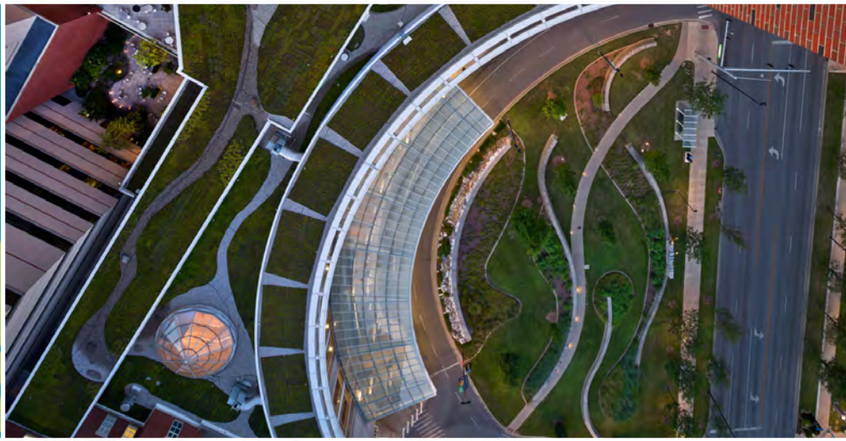
SUSTAINABILITY & RESILIENCE

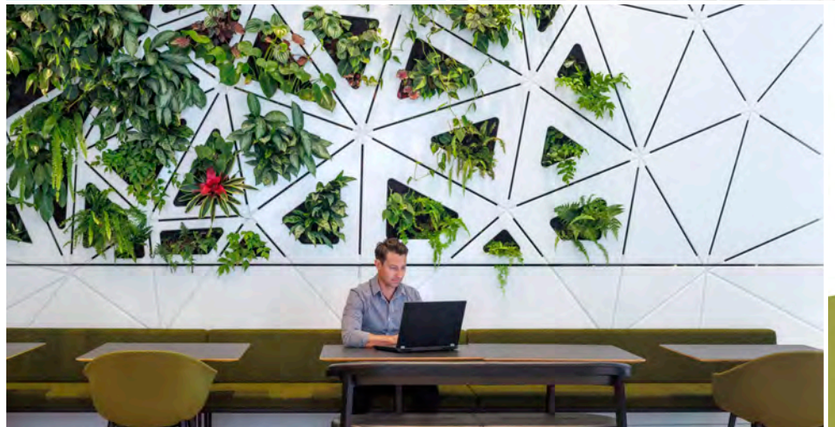
Driven by the belief that we can create a world of abundance by designing out waste, GBBN's **Director of Sustainability & Resilience, Tiffany Broyles Yost,** provides strategic leadership for sustainable design across the firm's portfolio of projects.

She works with design teams to identify and capitalize on the best approaches for economically smart, efficiently-operated, long-lived, high-performance buildings.



To help Chatham University meet their sustainability goals for their Buhl Science Center we developed a solar shading strategy driven from data gathered by studying solar radiation on that facade.





RESEARCH

A former professor at West Virginia University, **GBBN's Director of Research, Shan Jiang**, leads our firm-wide research efforts, helping design teams conduct research while drawing on established research to inform their design work.

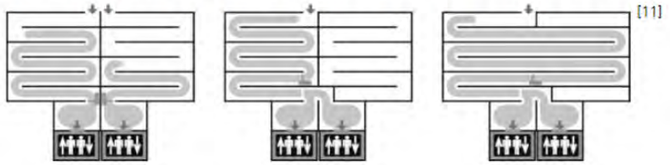
An established researcher and thought leader, Shan has conducted and published a substantial body of research on the relationship between people and their environment.

TUC Student Dining Design - Research Sprint

Shan Jiang [Sept.28, Oct.11-13, 2022; 4 hours] and Samantha Bischof

Quick Facts about Fast-Food Chains (Drive-Thru Data) [5]

- Breakfast (5:00am-10:29am) 9%; Lunch (10:30am-1:30am) 49%; Late afternoon (1:31pm-4:00pm) 12%; and Dinner (4:01pm-7:00pm) 29%
- Average total time 6 minutes 12 seconds; average wait time: 1 minute 45 seconds



[11]

Research shows students, especially first years, avoid the center seats of dining spaces. This informed the design strategy for the University of Cincinnati, Market Pointe Dining renovation which features a center servery to help with flow and queuing.

The Approachable Green: Integrating Living Walls in Biophilic Interior Spaces, Part 2

December 15, 2022

by Shan Jiang, Ph.D.

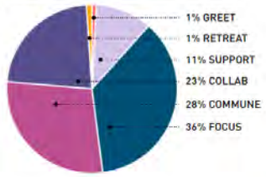
UCF & UC ALUMNI ASSOC ACTIVITY-BASED ECOSYSTEM

MACRO PROGRAM SUMMARY

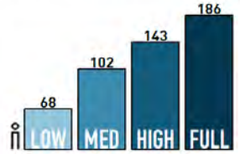
PROGRAM

MACRO PROGRAMMING		
GREET		250 SF
SUPPORT		3,200 SF
FOCUS		11,194 SF
COMMUNE		12,538 SF
COLLABORATE		6,729 SF
RETREAT		308 SF
PROGRAM TOTAL		34,219 SF

SPATIAL UTILIZATION BY MODE



OFFICE OCCUPANCY RANGE



ANTICIPATED DAILY STAFF ATTENDANCE

January 26, 2023

University of Cincinnati Foundation &

International Journal of *Environmental Research and Public Health*

Protocol

Promoting Health and Behavior Change through Evidence-Based Landscape Interventions in Rural Communities: A Pilot Protocol

Shan Jiang [1,*], Udday Datta [2] and Christine Jones [3]

TECHNOLOGY & FABRICATION

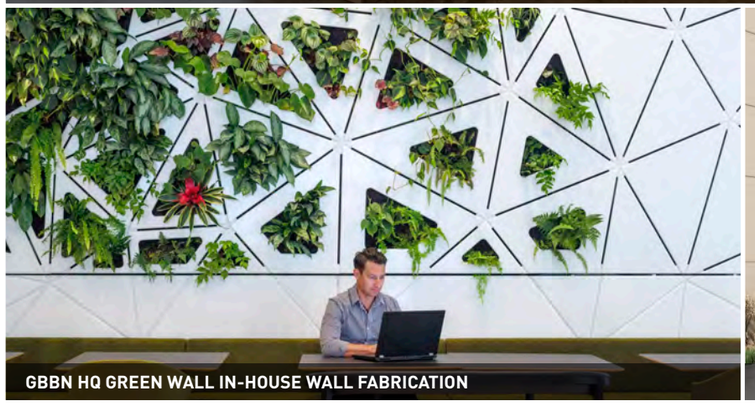
Committed to the principle that the most elegant design solution is one that solves multiple problems in a single stroke, **GBBN's Director of Computational Design & Fabrication, Troy Malmstrom**, works firm-wide with designers, manufacturers, fabricators, and builders to express design thinking through making.

His understanding of building components, materials, and fabrication techniques results in one-of-a-kind design elements that consider clients' budget and goals.

The University of Cincinnati, Digital Futures Complex features a custom wall fabrication (left) designed by UC students (right) and CNC milled, provided a distinctive custom feature within the project budget

THE FOUNDRY IN-HOUSE FACADE MOCK UP

UK HEALTHCARE AR PROJECT TOUR



GBBN HQ GREEN WALL IN-HOUSE WALL FABRICATION

CASE WESTERN RESERVE UNIVERSITY, OLIN HALL

UC MARKET POINTE DINING HALL

UC MARKET POINTE DINING HALL WALL MOCK UP

EXECUTE

Higher education has a role in shaping students' lives and how they see themselves. We use design to help you improve retention rates, graduation rates, alumni support, student satisfaction, and student well-being. We do this through careful crafting of the connective space outside of classrooms, primarily for undergraduates, in academic libraries and student life facilities.

ACADEMIC LIBRARIES

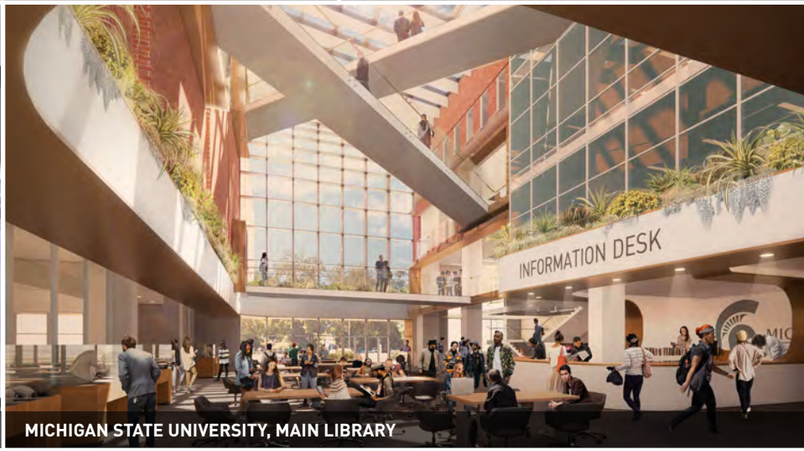
Libraries connect people to people and students to valuable resources like librarians, makerspaces, databases, and archives.

We use our experience and design expertise to help you develop the right opportunities and strategies to improve campus library experiences in ways that will foster collaboration and discovery.


UNIVERSITY OF CINCINNATI, LANGSAM LIBRARY


MIAMI UNIVERSITY, KING LIBRARY


CARNEGIE MELLON UNIVERSITY, HUNT LIBRARY



MICHIGAN STATE UNIVERSITY, MAIN LIBRARY

UNIVERSITY OF PITTSBURGH, HILLMAN LIBRARY

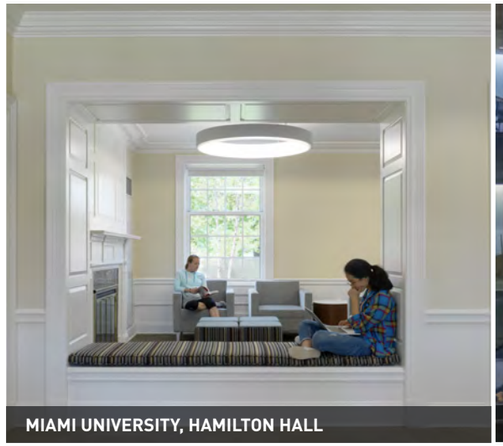

CARNEGIE MELLON UNIVERSITY, SORRELS LIBRARY

RESIDENCE HALLS

More than a place to sleep, residence halls are a first step on a student's journey to independence. We optimize spaces in residence halls to help students find connections, build networks, make friends and positive memories, and feel a sense of belonging.

MIAMI UNIVERSITY, EAST QUAD RESIDENCE HALLS

MIAMI UNIVERSITY, CLAWSON HALL



MIAMI UNIVERSITY, HAMILTON HALL

UNIVERSITY OF CINCINNATI, MARIAN SPENCER HALL

UNIVERSITY OF TOLEDO, OTTAWA HOUSE RESIDENCE HALLS

UNIVERSITY OF CINCINNATI, MARIAN SPENCER HALL

DINING FACILITIES

As hubs for student activity, dining facilities play a key role in keeping students (and their dining dollars) on campus. Thoughtful, elegant, and responsible design of these spaces help improve student attraction and retention rates, support student satisfaction and well-being, and encourage alumni support.

NORTHERN KENTUCKY, UNIVERSITY NORSE COMMONS

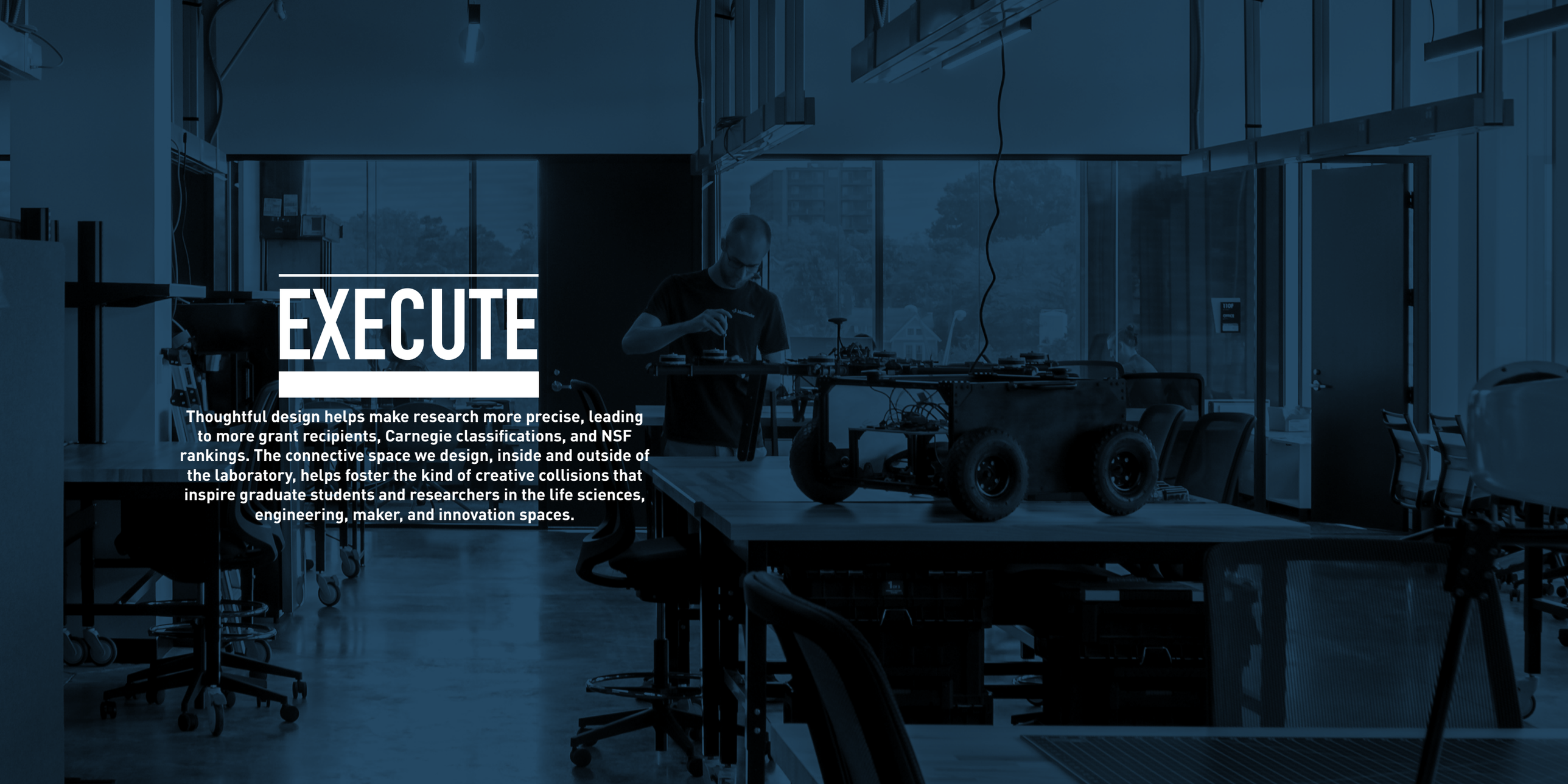
CARNEGIE MELLON UNIVERSITY, THE EXCHANGE DINING FACILITY

UNIVERSITY OF CINCINNATI, ON THE GREEN DINING HALL

UNIVERSITY OF CINCINNATI, MARKET POINTE DINING

CARNEGIE MELLON UNIVERSITY, iNOODLE

NORTHERN KENTUCKY UNIVERSITY, CALLAHAN DINING HALL



EXECUTE

Thoughtful design helps make research more precise, leading to more grant recipients, Carnegie classifications, and NSF rankings. The connective space we design, inside and outside of the laboratory, helps foster the kind of creative collisions that inspire graduate students and researchers in the life sciences, engineering, maker, and innovation spaces.

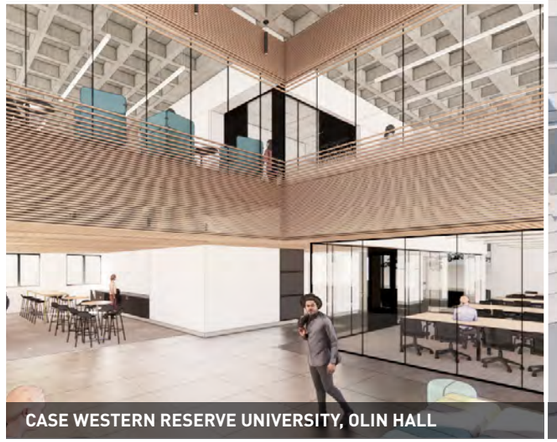
WET LABS
+ DRY LABS

Embracing a new model of how students and researchers investigate and learn opens new design avenues for laboratory spaces. Thinking beyond the bench helps make experimentation more visible, encourages curiosity, and fosters cross-collaboration.

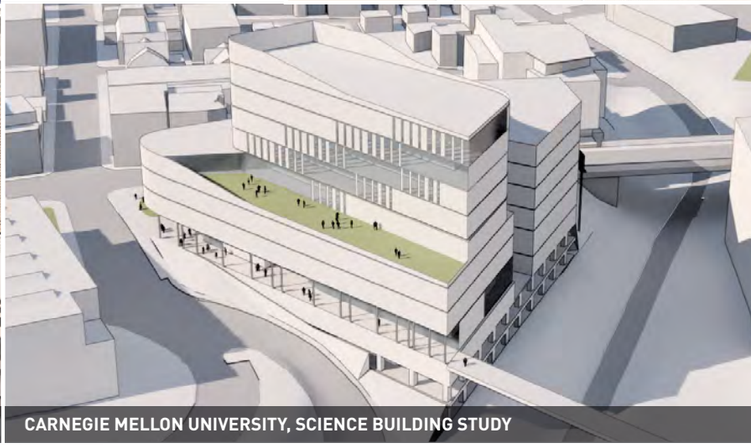
Thoughtfully designed lab space does more than create an environment where researchers want to be, it helps make their research more precise through better technology, equipment, and ventilation.

UNIVERSITY OF PITTSBURGH, MASCARO CENTER FOR SUSTAINABLE INNOVATION

UNIVERSITY OF CINCINNATI, RIEVESCHL HALL LABS

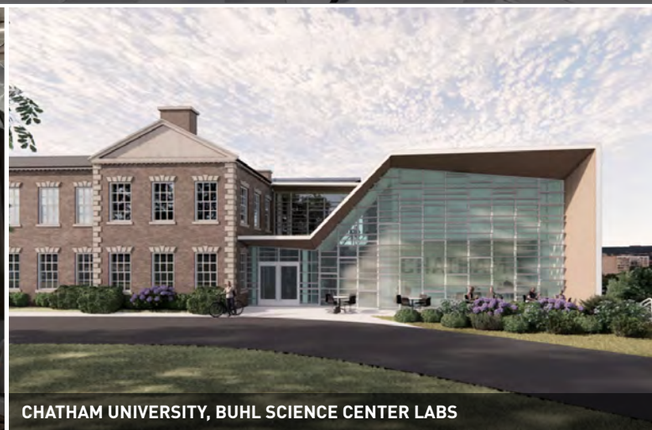


CASE WESTERN RESERVE UNIVERSITY, OLIN HALL



CARNEGIE MELLON UNIVERSITY, SCIENCE BUILDING STUDY

CASE WESTERN RESERVE UNIVERSITY, SUSI ENGINEERING LAB



CHATHAM UNIVERSITY, BUHL SCIENCE CENTER LABS

INNOVATION CENTERS

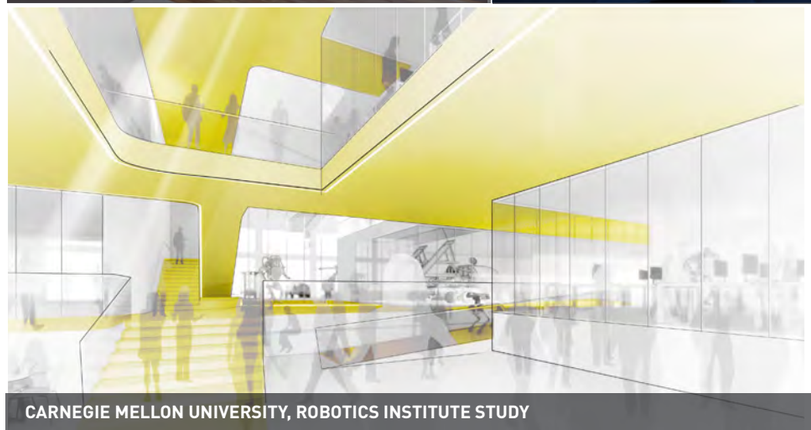
Emerging technologies are opening expansive new realms of investigation, enabling undreamed-of new approaches to research. Universities are leveraging new partnerships, with both corporate and non-profit organizations, that lead to new lanes of thinking.

Innovation spaces (on, off, or near campus) should invite collaboration through shared amenities (like cafes) but also shared resources that bring disparate researchers together to engage in cross-disciplinary discussions.

UNIVERSITY OF CINCINNATI, DIGITAL FUTURES COMPLEX

UNIVERSITY OF CINCINNATI, 121 INCUBATOR

POINT PARK UNIVERSITY, CENTER FOR MEDIA INNOVATION

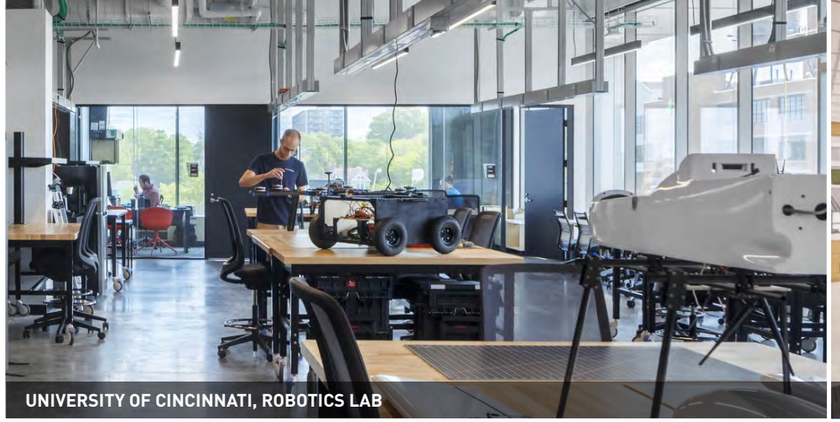


CARNEGIE MELLON UNIVERSITY, ROBOTICS INSTITUTE STUDY

MAKERSPACES + ROBOTICS

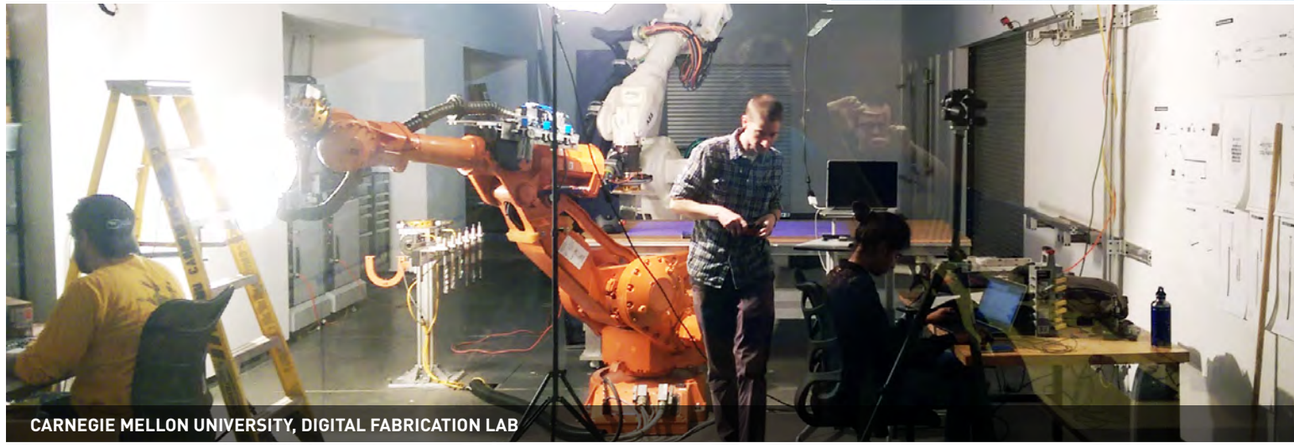
From using 3D printing for artificial heart valves to using titanium powder to rapidly prototype metal plates to repair skull fractures, makerspaces and robotics labs let research engineers do what cannot be done with the human hand alone.

Thoughtfully considered maker and robotics spaces invite cross-collaboration, provide opportunities for displaying research without compromising propriety research, and optimize space for maximum functionality and impact.



UNIVERSITY OF CINCINNATI, ROBOTICS LAB

MIAMI UNIVERSITY, KING LIBRARY MAKERSPACE



CARNEGIE MELLON UNIVERSITY, DIGITAL FABRICATION LAB

CARNEGIE MELLON UNIVERSITY, MILL 19 ADDITIVES LAB

CARNEGIE MELLON UNIVERSITY, HAMERSCHLAG MAKERSPACE

CLASSROOMS + SUPPORT SPACES

Intellectual exchanges that begin early in a student's college career can lead to innovation breakthroughs as they approach graduation. Learning doesn't stop when students leave a classroom, so having lounge and study spaces adjacent to classrooms helps extend conversations and build relationships that can cultivate world-changing ideas.

CARNEGIE MELLON UNIVERSITY, POSNER HALL

UNIV. OF PITTSBURGH, SWANSON SCHOOL OF ENGINEERING

PENN STATE, CENTER FOR COMMUNITY OUTREACH, RESEARCH, & EVALUATION (CORE)

NORTHERN KENTUCKY UNIVERSITY, HEALTH INNOVATION CENTER

CARNEGIE MELLON UNIVERSITY, HEINZ COLLEGE

POSITIVELY IMPACTING PEOPLE IS THE MOST IMPORTANT THING WE DO.

ENHANCE & EMPOWER

GBBN.COM