RE-ENVISIONING

PURDUE'S ENGINEERING CAMPUS

Space Master Plan [2017 – 2027]

PURDUE UNIVERSITY | College of Engineering

PINNACLE OF EXCELLENCE AT SCALE

With the guiding principles below and our proud heritage in mind, we are envisioning the next decade of space to enable our future: places for the programs and people of Purdue Engineering.

FROM GRISSOM : 1906

TO GATEWAY COMPLEX : 2022

PURPOSE-DRIVEN

Flexible for the way we teach, learn, and discover

STUDENT-CENTERED

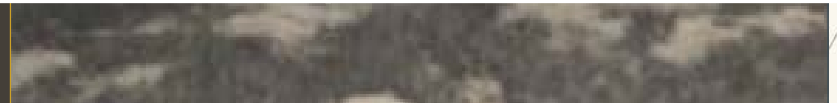
Helping students transition to the working world

COLLABORATIVE

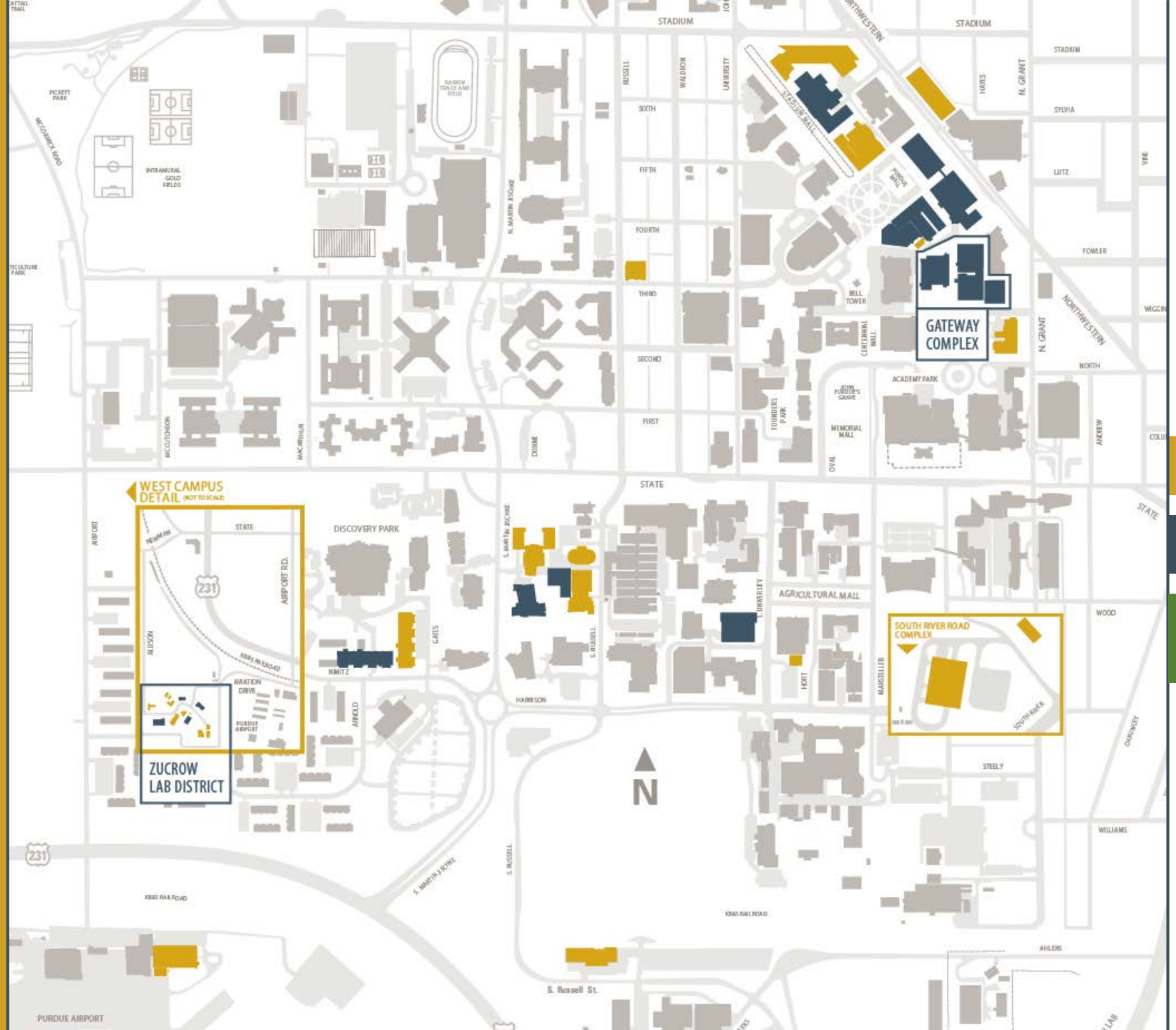
Encouraging connections and intellectual collisions

EFFICIENT

Better use of space, energy, technology, and lighting



ENGINEERING ON CAMPUS



EXISTING BUILDINGS and COMPLETED PROJECTS

CURRENT and PLANNED PROJECTS: 2017-2027

CONNECTIONS ACROSS CAMPUS PROVIDED BY AUTONOMOUS BUSES IN THE FUTURE

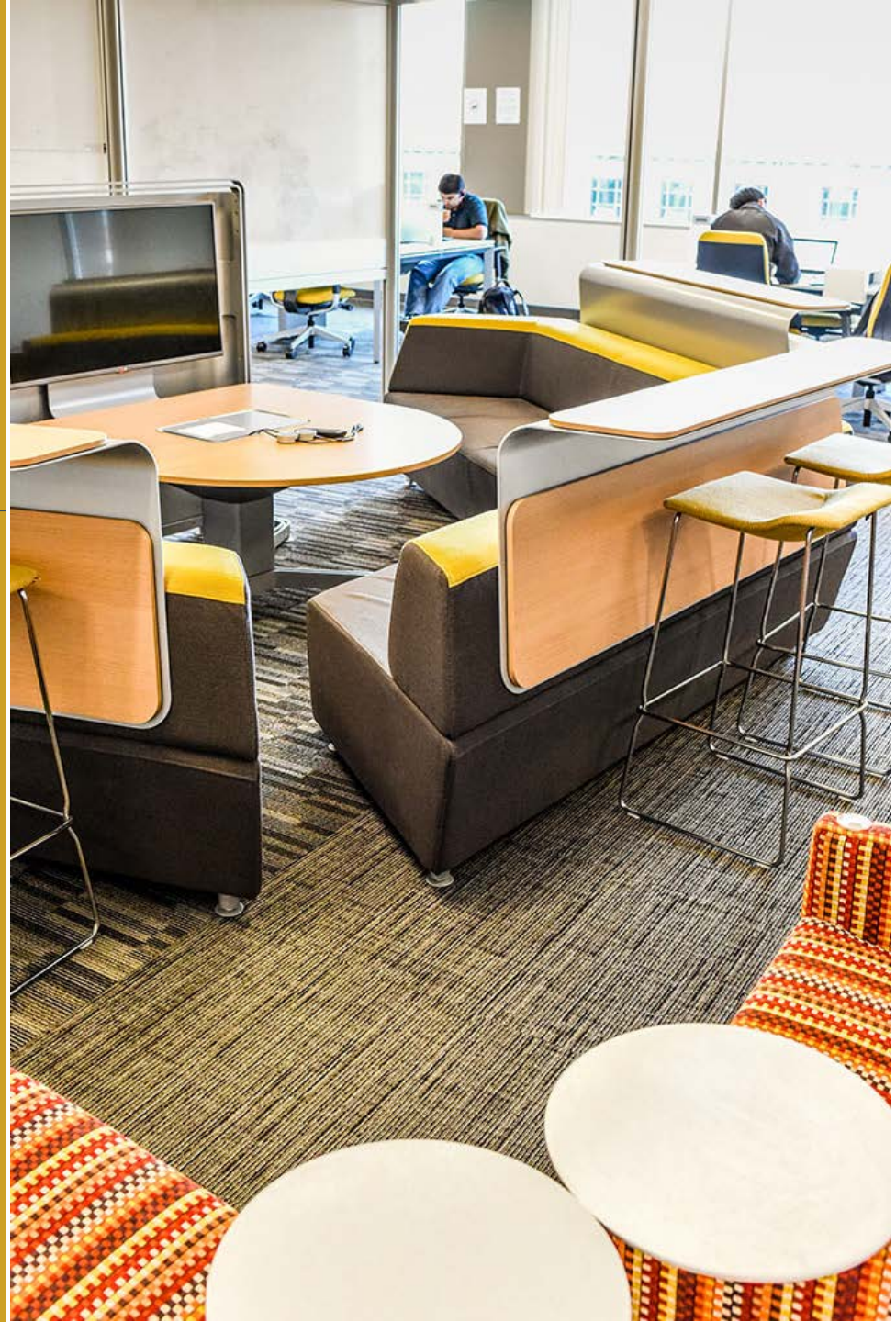
BEGINNING OUR JOURNEY

SENG-LIANG WANG HALL

Opened 2014

Innovative Public-Private Partnership

- Home to restaurants, credit union, offices, labs, and research spaces
- Floors 1-3: Electrical & Computer Engineering labs and offices
- Floor 2: Purdue Engineering Online
- Floor 3: Engineering Education research
- Floor 4: College of Engineering “swing” space
- Gold-level environmental certification



GRISSOM HALL [BEFORE]

Opened 1906
Wing Addition 1920

An Obsolete Interior . . .

- Bricked-up windows
- Dropped ceilings
- Dark hallways
- Closed-off labs
- Limited collaboration space

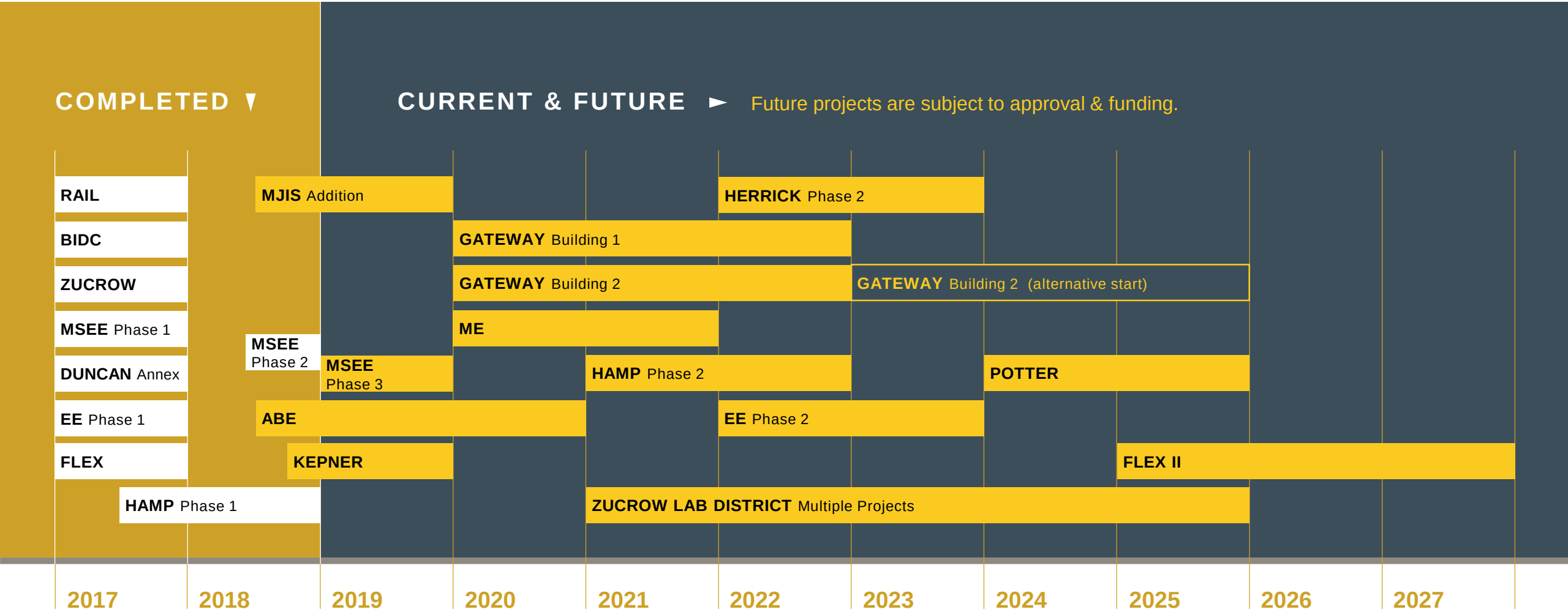
GRISSOM HALL [AFTER]

Rededicated 2015

Totally Reinvented for Today's Work

- A new home for Industrial Engineering
- Collaborative environment
- 3 floors of transformed space
- 2x the capacity
- $36K annual energy savings

SPACE MASTER PLAN | TENTATIVE PROJECT TIMELINE

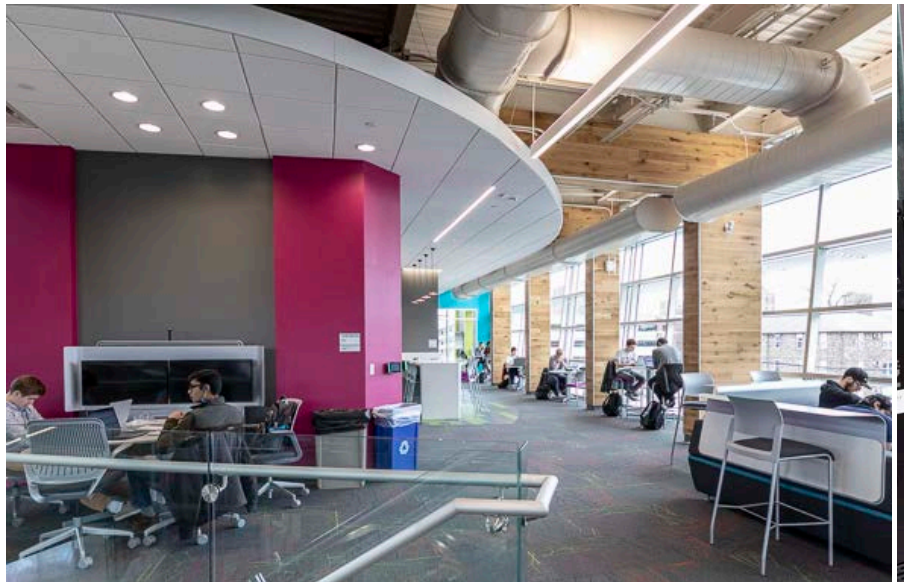


BECHTEL INNOVATION DESIGN CENTER

Opened 2017

A Magnet for Innovation

- Advanced prototyping space for Purdue innovators
- 3 floors dedicated to design, machining, and assembly
- 24/7 facility for students, faculty, and staff across disciplines

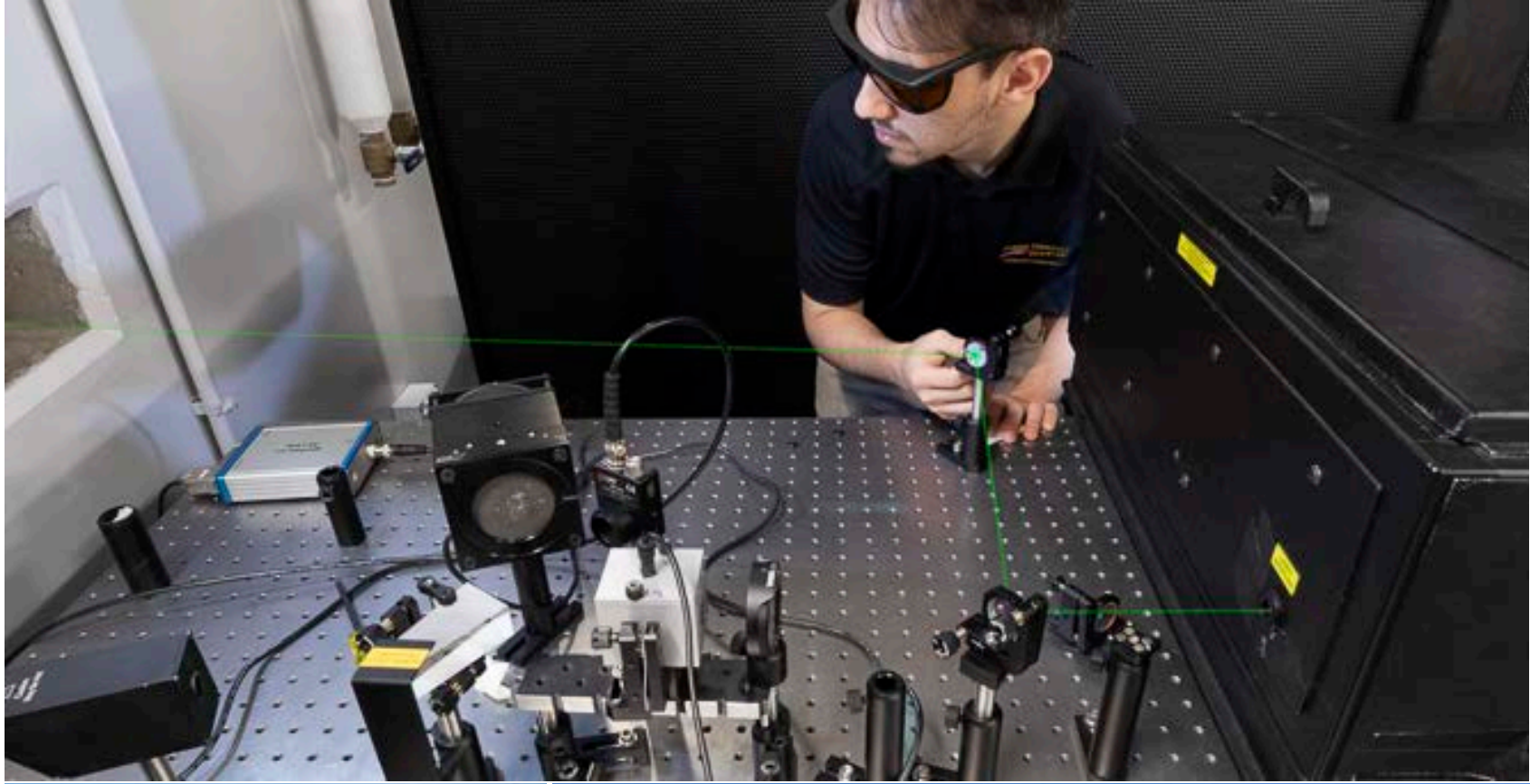


MAURICE J. ZUCROW LABORATORIES

Opened 1948
High-Pressure Combustion Lab Opened 2017

Research for Revolution in Flight

- Only facility of its kind in the world
- 5 test cells and laser lab
- Enables experimental research in real-world operating conditions

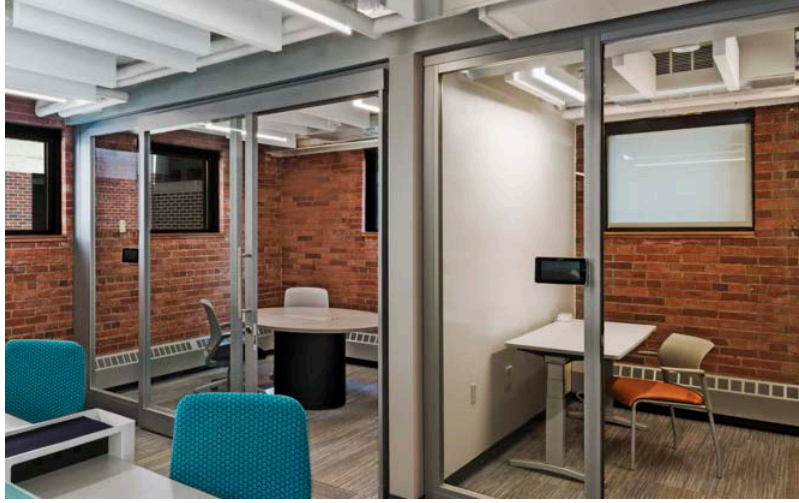


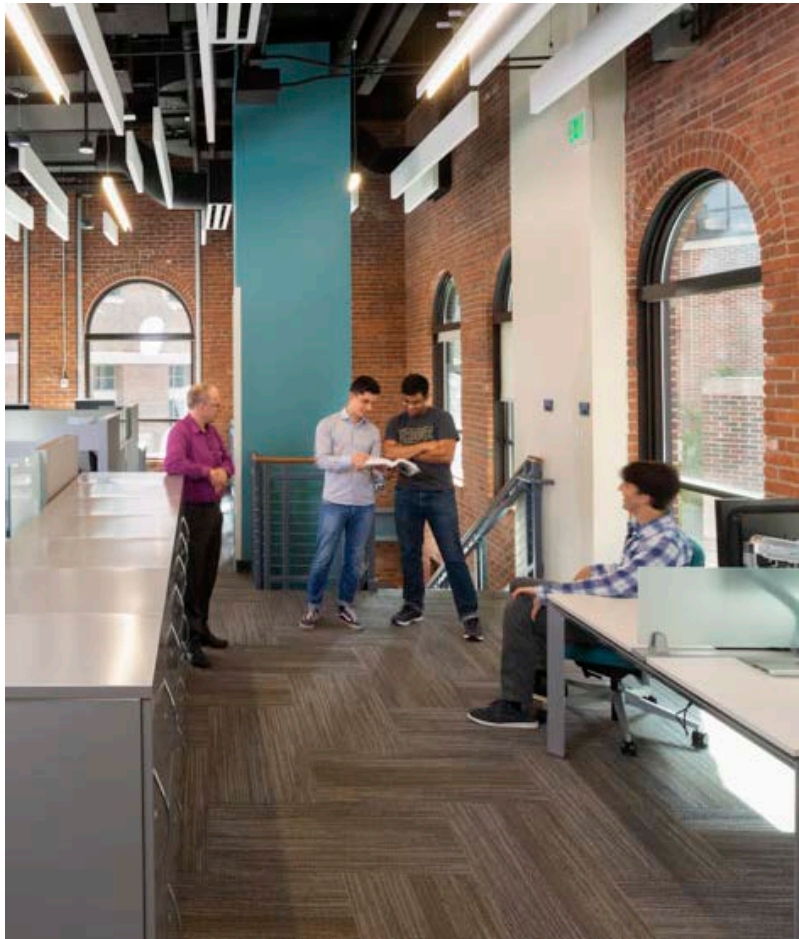
AMERICAN RAILWAY BUILDING

Opened 1926
Renovated 2017

Repurposed for Today's World

- Originally built to test railway draft gears
- Now a dedicated workspace for 40+ ME graduate students
- Combines quiet study and open collaboration areas



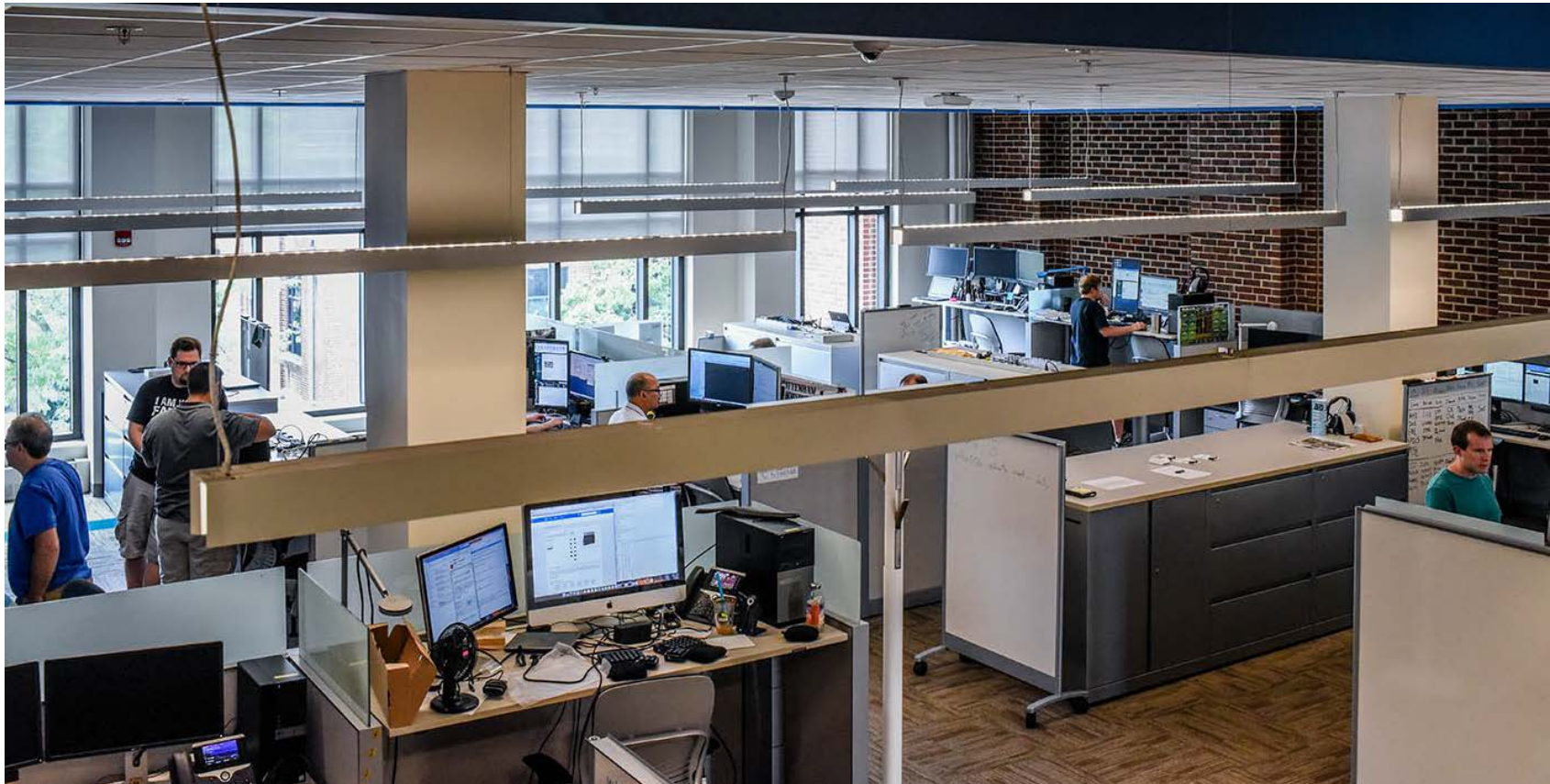


DUNCAN ANNEX

Opened 1940
Renovated 2017

Accessible, Collaborative Environment for Multiple Groups

- First floor transformed into updated classroom, modernized classroom, and graduate student suite
- Second floor unused space transformed into fully utilized modern workspace
- Addition of windows, elevator, and open working spaces
- Brings Engineering Computer Network team together in one place



MATERIALS & ELECTRICAL ENGINEERING BUILDING

Phase 1

Opened 1987
Renovated 2017

Keeping Students on Course

- New ECE Advising Suite for record 1,530 students
- Private offices for personal conversations

ELECTRICAL ENGINEERING BUILDING Phase 1

Opened 1924
Addition 1932
Renovated 2017

Modernizing a Nearly Century-old Building

- New flexible instructional labs
- Redesigned space for senior design projects
- Renovated connector with Duncan Annex
- Addition of accessible ramps
- New courtyard garden

MATERIALS & ELECTRICAL ENGINEERING BUILDING

Phase 2

Renovated 2018

More Inviting Space for Students, Faculty, and Staff

- Updated atrium includes a Starbucks, center of collaboration, soft seating, and laptop bar
- ECE Business Office provides central access for business needs

FLEX LAB

Opened 2018

Discovery Across Disciplines

- Home to diverse portfolio of research and researchers
- High-bay spaces for large or experimental equipment
- Wet, computational, optics, and laser labs

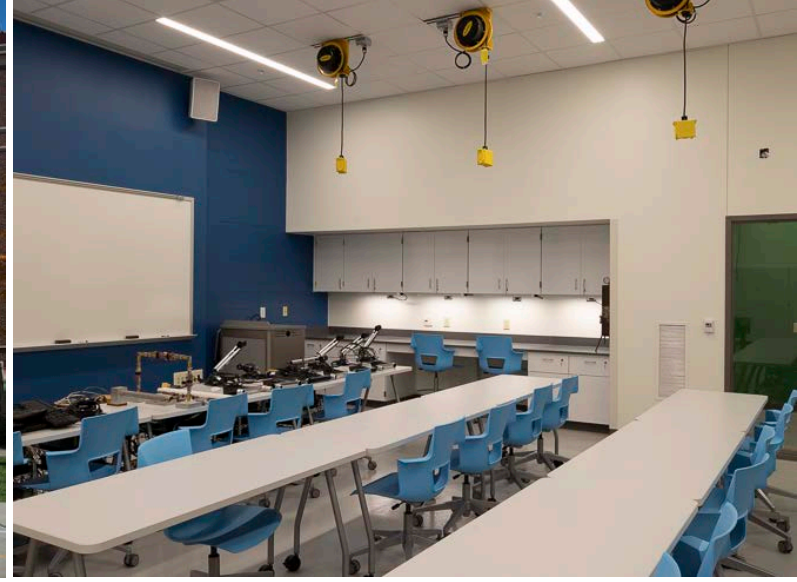
DELON & ELIZABETH HAMPTON HALL OF CIVIL ENGINEERING

Phase 1

Opened 1950
Additions 1961 & 1986
Renovated 2018

Flexible Use Anticipates Future Needs

- 3 flexible teaching labs for architectural, geomatics, and structural engineering
- Modernized construction materials labs for concrete and asphalt research
- New student lounge to promote collaboration
- Improved building circulation and accessibility



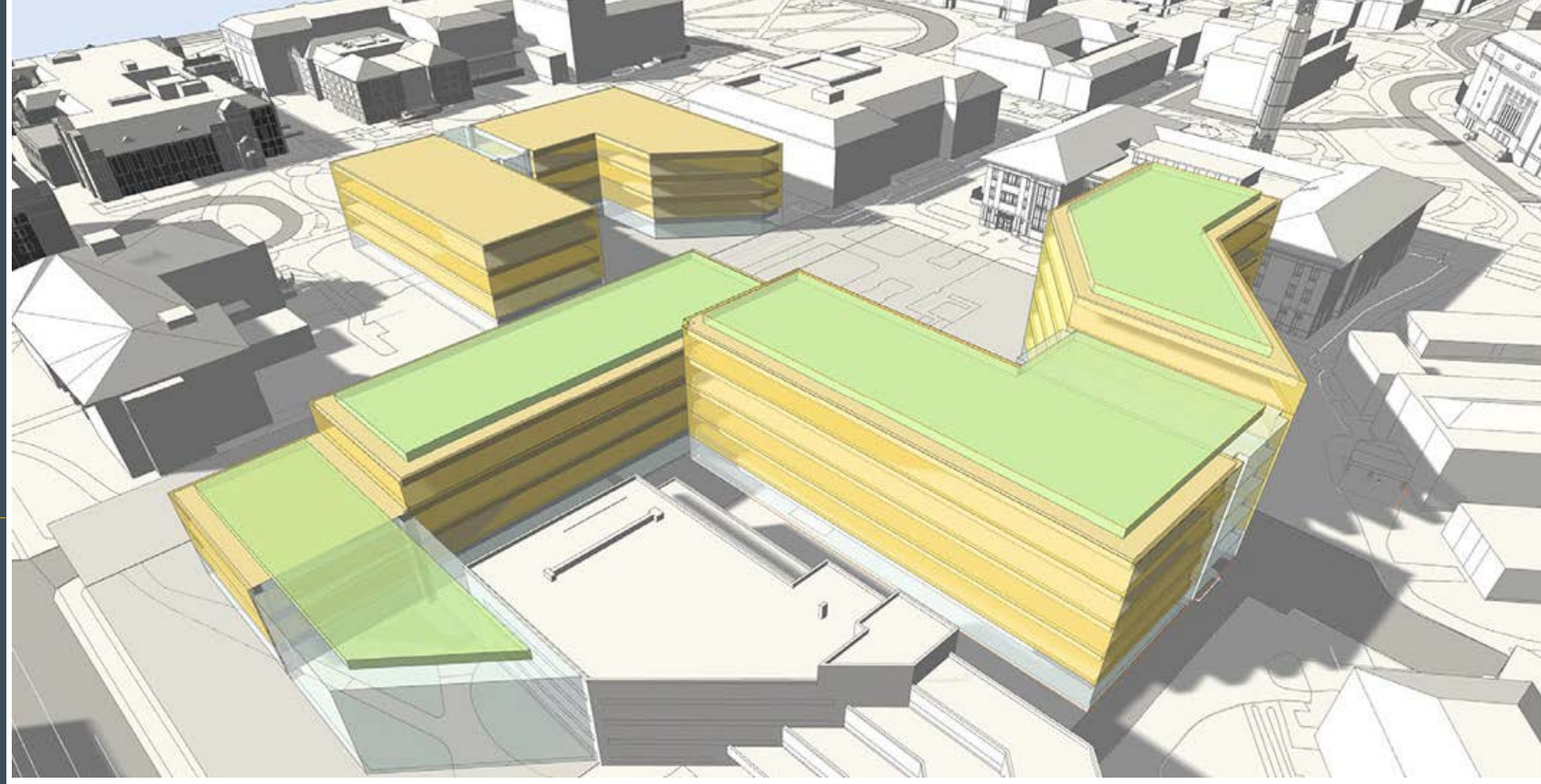

BUILDING FOR TOMORROW

GATEWAY COMPLEX

Anticipated Completion Building 1 : 2022
Anticipated Completion Building 2 : 2022 / 2025

A New Gateway to
Purdue's Engineering Campus

- Demolition of current Nuclear Engineering and Michael Golden Laboratories
- New facilities for College of Engineering and Purdue Polytechnic Institute
- Project-based instructional labs, design studios, and collaborative spaces
- Student Success Center
- Future Gateway Building 3 as possible replacement for Potter Center

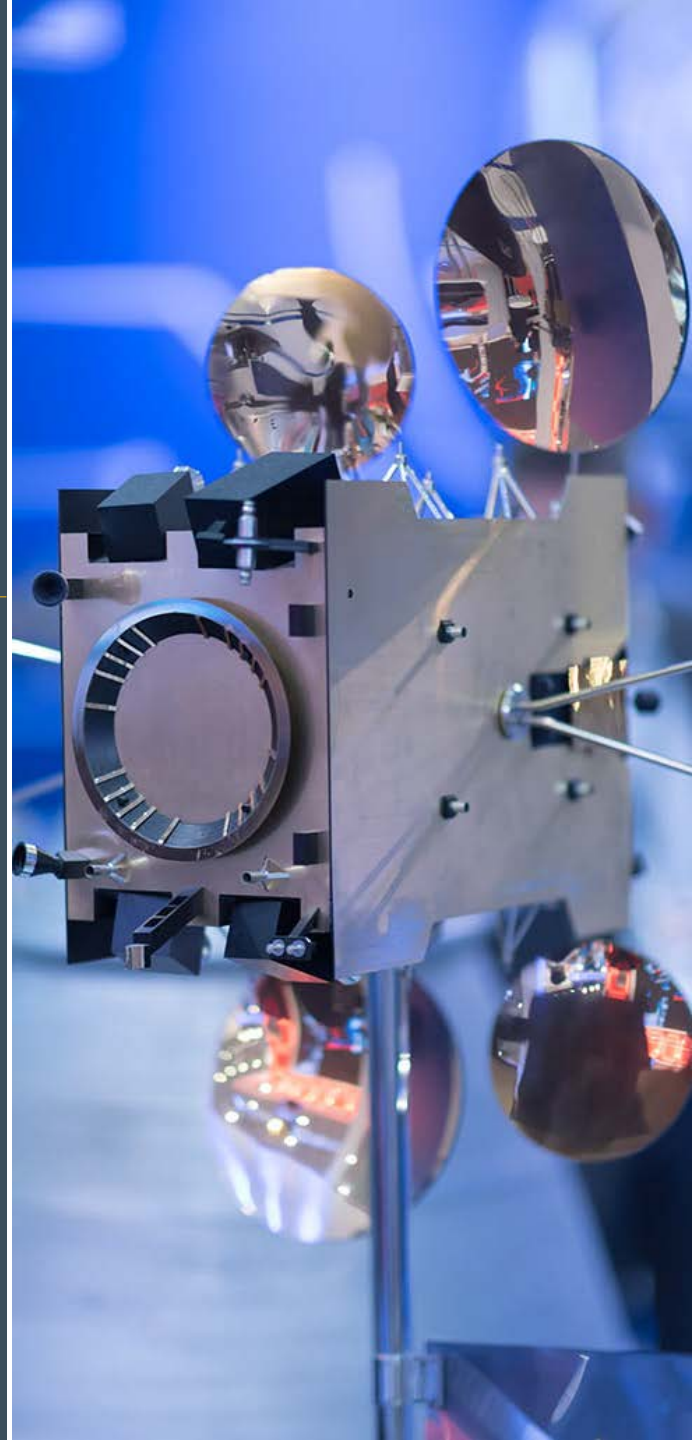


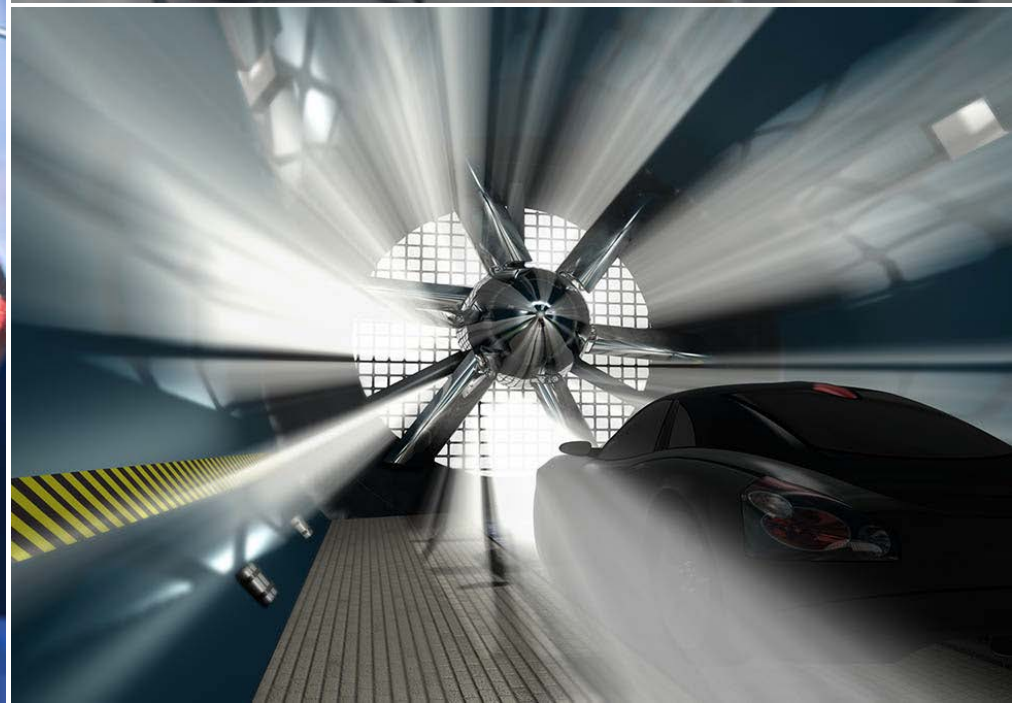
ZUCROW LAB DISTRICT

Multiple Projects 2021 - 2026

Supporting Technology in a New Era

- Drones facility
- High-speed wind tunnel
- Satellite facility
- New research test cells
- Compressed air facility





MARTIN C. JISCHKE HALL OF BIOMEDICAL ENGINEERING INNOVATION WING

Anticipated Completion 2019

Keeping Pace with Changing Healthcare

- New addition to address growing student interest and research
- Interactive laboratory for undergraduates
- Space for neurological device research

MSEE Phase 3

Anticipated Completion 2019

- New Student Design Studio allowing for collaborative design
- ECE Administrative Suite with central access for faculty, staff, and students

MECHANICAL ENGINEERING BUILDING

Anticipated Completion 2021

- Expanded labs, machine/electronics shops, and computation/prototype/build spaces
- Additional classroom, collaboration, computer, tutorial, and office spaces

AGRICULTURAL & BIOLOGICAL ENGINEERING BUILDING

Anticipated Completion 2020

Bringing Faculty Home from 11 Campus Buildings to 165K Square Feet of New & Remodeled Space

RAY W. HERRICK LABORATORIES

Phase 2

Anticipated Completion 2023

Building a New Home for Advanced Acoustics Research

DELON & ELIZABETH HAMPTON HALL OF CIVIL ENGINEERING

Phase 2

Anticipated Completion 2022

- Complete renovation to create a modern workspace
- Updated classrooms, collaboration zones, work cafés, labs, and offices

ELECTRICAL ENGINEERING

Phase 2

Anticipated Completion 2024

- Renovation of ground, first, second, and third floors
- Addition of labs, collaboration space, improved classrooms, and offices

A.A. POTTER ENGINEERING CENTER

Anticipated Completion 2025

Complete Renovation of a Multipurpose Teaching & Research Facility

FLEX LAB II

Anticipated Completion 2027

Planning Ahead to Accommodate Future Research

THANK YOU for sharing in our journey as we build onward and upward.

PURDUE UNIVERSITY | College of Engineering