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.

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

FROM GRISSOM: 1906 TO GATEWAY COMPLEX: 2022
EXISTING BUILDINGS and COMPLETED PROJECTS

CURRENT and PLANNED PROJECTS: 2017-2027

CONNECTIONS ACROSS CAMPUS PROVIDED BY AUTONOMOUS BUSES IN THE FUTURE
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
GRISOM 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

COMPLETED

- RAIL
- BIDC
- ZUCROW
- MSEE Phase 1
- DUNCAN Annex
- EE Phase 1
- FLEX
- HAMP Phase 1

CURRENT & FUTURE

Future projects are subject to approval & funding.

- MJIS Addition
- GATEWAY Building 1
- GATEWAY Building 2
- ME
- MSEE Phase 2
- MSEE Phase 3
- ABE
- KEPNER
- HAMP Phase 2
- HAMP Phase 3
- HAMP
- EE Phase 2
- ZUCROW LAB DISTRICT Multiple Projects
- HERRICK Phase 2
- GATEWAY Building 2 (alternative start)
- POTTER
- FLEX II

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
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
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
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
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.