NEW FRONTIERS
BE PART OF BUILDING THE FUTURE

KU SCHOOL OF ENGINEERING
The University of Kansas

KU Engineering Expansion Project
To accommodate 60 percent growth in student enrollment and 30 new faculty members, the KU School of Engineering is adding 185,000 square feet by Fall 2015. These new technologically advanced spaces will ensure KU is the premier school of engineering in the state and region.
A NEW FRONT DOOR FOR ENGINEERING

More and more students are choosing to earn their engineering and computing degrees at the University of Kansas. KU Engineering’s undergraduate enrollment is expected to grow by 60 percent as established in the school’s Building on Excellence Initiative. To meet increasing demand, the School of Engineering must add 60 percent to the school’s footprint. The KU Engineering Expansion Project offers premier work and study space that will carry the school to greater heights.

**The expansion includes:**
- $105 million investment in facilities
- Four new structures – two on the main campus and two on KU’s West Campus – totalling 185,000 square feet
- Innovative “active-learning” classrooms that promote understanding
- Student success areas for new student recruitment, projects, tutoring and retention, and collaboration
- An enhanced career center
- Teaching and research labs
- A grand entry – a new front door – and integration into the engineering complex

A facet of the expansion takes place on KU’s West Campus and provides space for:
- Capstone design projects
- Student competition projects
- Fabrication and machine shops
- Large-scale structures research

A student project center and the new Hill Engineering Research and Development Center add more than 7,000 square feet for student capstone projects and student groups, such as:
- Jayhawk Motorsports
- Aerospace Heavylift Team
- Chem-E Car Team
- Engineers Without Borders
- KU EcoHawks

**EXPANSION TIMELINE**

<table>
<thead>
<tr>
<th>FALL 2012</th>
<th>SUMMER 2013</th>
<th>FALL 2014</th>
<th>FALL 2015</th>
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<tbody>
<tr>
<td>M2SEC research center opens (46,898 sq. ft.)</td>
<td>Hill Engineering Research &amp; Development Center opens (4,350 sq. ft.)</td>
<td>West Campus Building opens (24,709 sq. ft.)</td>
<td>Main Campus Building opens (109,819 sq. ft.)</td>
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These areas will let students work with faculty to expand their knowledge, explore their creativity and develop their potential.

The West Campus site also will become home to a revolutionary structural testing facility, with a 40-foot strong wall and two 20-ton cranes.

“The designs incorporate features students have said they want and need – student organization offices, more group study space and enhanced computing and library resources.”

— Mason Jones, Chemical Engineering, 2014
BUILDING FOR STUDENT SUCCESS

Every element of new space is designed to cultivate student success:

• **State-of-the-art classrooms** that enhance access to cutting-edge curriculum
• **Teaching and research laboratories** that allow students to apply what they learn and push the boundaries
• **Collaboration and study spaces,** which are critical for students to hone their teamwork and communication skills while building their technical expertise

The main building will become the new front door for the KU School of Engineering and home for:

• Student recruitment, with
  - A celebratory entry
  - Meeting space for prospective students and their families
• Retention efforts, such as tutoring
• Group and individual study space
  - Student organization space
  - Project workrooms & resources
• Engineering Career Center

The structure’s grand entry will showcase engineering at KU. A distinctive atrium will greet prospective students with displays and study areas bathed in natural light.

The expansion also will renovate portions of Spahr Engineering Library, opening the floor plan while also providing small group study rooms, space for student organizations to meet and a workroom to tackle a variety of projects. This multi-use area will become a crossroads for engineering and computing students – a place to connect, cultivate and create – and a small café will fuel students in the middle of something big.

“The expansion not only shows that the engineering school is interested in giving students the best, but also that the school is able to continue growing for years to come.”


KU Engineering students learn leadership and communication techniques through several enrichment programs led by the school – all aimed at ensuring students are successful before and after graduation.
‘ACTIVE-LEARNING’ CLASSROOMS
FOR DEEPER UNDERSTANDING

Additional classroom space in the new Main Campus Building helps ensure students spend more time learning and developing ideas.

The new classroom designs foster active-learning teaching techniques:
• Provide a higher quality classroom experience
• Reach different learning styles
• Promote student interaction and communication skills
• Accommodate a variety of classroom sizes

Unlike a traditional tiered lecture hall, these “active” or “flipped” classrooms have flat floors, white boards, tables for groups of students to interact collaboratively and a variety of novel audio-visual devices to ensure students can view and share ideas and information from every point in the room, regardless of class size.

• One 160-seat classroom
• One 120-seat classroom
• One 90-seat classroom
• Three 60-seat classrooms

“In every class and project, students are working in pairs or small groups to solve problems, so the new active-learning classrooms will pull this atmosphere into the classroom environment.”

— Amanda Parks, Electrical Engineering, 2015
BRINGING DISCOVERY TO THE FOREFRONT

Both the Main Campus Building and the West Campus Building provide needed space for faculty and students to conduct research and innovate. New teaching labs will provide state-of-the-art facilities and equipment for:

- Illumination
- Power
- Unit operations/wet chemistry
- Mechanics of materials
- Instrumentation
- Building Thermal Science
- Environmental, and more

The West Campus Building offers dedicated space for student competition and capstone design projects and a structural testing lab with 40-foot strong walls. The Main Campus Building will attract the best professors to KU with more than a dozen new research labs.

Dedicated spaces (sq. ft.):

- Classroom laboratory and project design space (14,197)
- Student success space (20,539)
- Active learning classrooms (15,635)
- Research laboratory space (35,341)

“I am ecstatic about having state-of-the-art space and resources to complete my senior capstone project.”

— Al Papa Silva, Mechanical Engineering, 2016

“We see the Hill Research & Development Center as an opportunity for engineering students to learn by doing with hands-on experience, turning ideas into sustainable products and services now and in future generations. We are so pleased to be able to support the University and School in this important time of growth.”

— Sue and Ron Hill, Mechanical Engineering, 1957
Main Campus Building
Second floor, with Spahr Library

First floor, with Spahr Library

Ground floor

West Campus Building

“Being able to attract new faculty of the caliber of Dr. Reza Barati to teach and conduct leading research in petroleum engineering is very exciting. We’re pleased that our gift will help him get started quickly in his new role at KU.”

— Allyn Risley, Petroleum Engineering, 1972
FUNDING OUR FUTURE

The KU School of Engineering is in the midst of a transformational growth plan for students, faculty, and facilities. We are engaging many partners in our comprehensive expansion, and leveraging investments from the State of Kansas through the University Engineering Initiative Act, NIST, and others. Please join us in taking the school to new heights through FAR ABOVE and beyond!

YOU & KU: THE CORNERSTONE

Our expansion project offers many ways to share your legacy. Alumni, industry partners, and friends will find exciting naming opportunities that honor their outstanding generosity and investment – and help us achieve our goals.

Main Campus Building – $30,000,000
Main Campus Research Center (M2SEC) – $7,000,000
Main Building Grand Entrance – $5,000,000
West Campus Building – $4,000,000
160-seat Classroom – $1,500,000
West Campus Structural Testing Lab – $1,000,000
120-seat Classroom – $1,000,000
KU EcoHawks Facility – Funded (Hill Engineering R&D Center)
90-seat Classroom – $500,000
West Campus Student Project Center – $500,000
Engineering Student Success Center – $500,000
Classroom Labs – $100,000 to $500,000
Engineering Career Center – Funded (Ladd Career Center)
20-ton Cranes – $300,000
60-seat Classrooms – $250,000, each
Faculty Research Suites – $100,000, each
Student Success Areas – $25,000 to $100,000

Other avenues to invest in the future of the school:
• New faculty lab start-up packages
• Named professorships
• Scholarships
• Graduate fellowships
• Lab equipment
• On-going support for student programs and teams
• Student project equipment
• Peer mentoring

CONNECT WITH US

We invite you to be a part of our bright future. Contact a member of our team to see the difference you can make.

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