The Campaign for Boston University

CHOOSE TO BE GREAT

Boston University College of Engineering

YEAR FOUNDED

1950 as the College of Industrial Technology; named College of Engineering in 1964

DEAN

KENNETH R. LUTCHEN

NUMBER OF STUDENTS

UNDERGRADUATE: 1,500

GRADUATE: 840

SIZE OF FACULTY

TENURED/TENURE-TRACK FACULTY: 120

RESEARCH FACULTY & ASSOCIATES: 26

NUMBER OF LIVING ALUMNI

14,058

DEGREE PROGRAMS

- BS
- MS
- MENG
- PHD
- BS/MAT (STEM EDUCATOR-ENGINEER PROGRAM WITH SCHOOL OF EDUCATION)
- MS/MBA (WITH SCHOOL OF MANAGEMENT)
- MD/PHD (WITH SCHOOL OF MEDICINE)

ACADEMIC PROGRAMS

- BIOMEDICAL
- COMPUTER
- ELECTRICAL
- MATERIALS SCIENCE
- MECHANICAL
- SYSTEMS

The College of Engineering is committed to training engineers who will work to create a better world: Societal Engineers™.

Societal engineers approach engineering with a sense of purpose. They have a range of skills, from effective communication and global awareness to a social consciousness and a passion for innovation. The societal engineer inspires people from many backgrounds to work together to create a safer, greener, better-connected world.

The College created the dynamic concept of the societal engineer, and we've built our undergraduate education around it. Our faculty is full of path-breaking thinkers whose research is already transforming many fields. As a result, ENG has grown rapidly, in terms of both excellence and institutional reputation. Case in point: The College has risen in the *U.S. News & World Report* rankings faster than any other engineering school. ENG is now in the top 40 engineering schools in the country, and research funding per faculty member ranks 23rd in the nation, after only 50 years of existence and only 22 years with a PhD program.

EXAMPLES OF RESEARCH STRENGTHS/KEY PROGRAMS

- BIMOLECULAR ENGINEERING RESEARCH CENTER
- CENTER FOR COMPUTATIONAL NEUROSCIENCE & NEURAL TECHNOLOGY
- CENTER FOR COMPUTATIONAL SCIENCE
- CENTER FOR FUTURE TECHNOLOGIES IN CANCER CARE
- CENTER FOR INFORMATION & SYSTEMS ENGINEERING
- CENTER FOR MEMORY & BRAIN
- CENTER FOR NANOSCIENCE & NANOBIOTECHNOLOGY
- CENTER FOR REMOTE SENSING
- CENTER FOR SPACE PHYSICS
- CENTER OF SYNTHETIC BIOLOGY
- ENGINEERING PRODUCT INNOVATION CENTER
- FRAUNHOFER CENTER FOR MANUFACTURING INNOVATION
- HEARING RESEARCH CENTER
- NEUROMUSCULAR RESEARCH CENTER
- PHOTONICS CENTER
- RAFIK B. HARIRI INSTITUTE FOR COMPUTING AND COMPUTATIONAL SCIENCE & ENGINEERING
- SMART LIGHTING ENGINEERING RESEARCH CENTER

TOTAL RESEARCH AWARDS (2014)

$47 million

DISTINGUISHED ALUMNI & FACULTY

- **Professor Edward Damiano**, developer of the closed-loop bionic pancreas system to revolutionize diabetes treatment
- **Professor Charles DeLisi,** Metcalf Professor of science and engineering and dean of the College from 1990 to 2000, Presidential Citizens Medal recipient for seminal role in initiating the Human Genome Project
- **Matt Heverly** (ENG'05), NASA's lead driver of the Curiosity rover on Mars
- **Dean Kenneth Lutchen**, dean since 2006, past president of the American Institute of Medical and Biological Engineering (AIMBE) and recipient of the AIMBE Pierre Galletti Award
- **Kathleen McLaughlin** (ENG'87), president of the Walmart Foundation
- **Professor Theodore Moustakas**, coinventor of the blue light-emitting diode (LED)
- **Anton Papp** (ENG'90), vice president for corporate development at Teradata
- **George Savage** (ENG'81), chief medical officer and cofounder of Proteus Digital Health
- **Professor Alice White**, chair of the Mechanical Engineering Department, whose long career at Bell Labs culminated in her assignment as chief scientist

POINTS OF PRIDE

- The **Engineering Product Innovation Center (EPIC)** is a pioneering 15,000-square-foot, $12 million facility that helps address a critical need in the U.S.: training prospective engineers in the advanced design and manufacturing processes of the future. EPIC gives students hands-on design, prototyping, and small-scale manufacturing experience.
- The **Binoy K. Singh Imagineering Laboratory** gives students the resources to experiment and take on their own creative engineering projects. Using the lab's tools and machinery, students are encouraged to expand their engineering thinking and pursue their ideas and designs that aren't part of class or lab work.
- Through the **Technology Innovation Scholars Program (TISP)**, select engineering undergraduates visit middle and high schools nationwide to excite students about careers in engineering. TISP has reached more than 9,000 K–12 students.
- **Study abroad programs** are designed specifically for BU engineering students in Madrid, Tel Aviv, Dresden, and Grenoble.
- The **W. Bradford Ingalls Engineering Resource Center** provides students with a state-of-the-art place to meet, conduct research, and work on common projects. Established through a gift from the College's first alumnus, the center combines high technology with innovative design to create a welcoming environment where students can build on the knowledge they gain in the classroom and lab.

CAMPAIGN PRIORITIES

COLLEGE OF ENGINEERING

- Up to $30 million: research centers
- $18 million: capital improvements
- $16.5 million: professorships and faculty awards
- $9 million: graduate fellowships and student funds
- $1 million: lecture series