

MATERIALS SCIENCE & ENGINEERING

Discover
**MATERIALS
ENGINEERING**

GRAINGER ENGINEERING



Apply to Materials Engineering!

Industry and policymakers look to materials engineers to pioneer long-lasting batteries to power electric vehicles, design polymers and electronic materials that can be more efficiently recycled and discover new biomaterials that enable life-saving medical treatments.

The Department of Materials Science & Engineering at the University of Illinois Urbana-Champaign is a global leader in materials education and innovation. Ranked #2 among all universities in the country and #1 among public universities by U.S. News and World Report, we are solving today's most complex challenges in health care, renewable energy, sustainability, computing and communications.

Our graduates become leaders in materials development and production efforts, including composite experts at Boeing, participants in the United Nations Women Global Innovation Coalition for Change, and founders of startup companies for customized prosthetics, sustainable shoes, self-healing paints, wearable flexible electronics, and sodium-based rechargeable batteries. They're also leaders at companies like 3M, Ford, Dow, IBM, Corning, SpaceX, Texas Instruments and at universities and national laboratories worldwide.

Your Materials Engineering at Illinois story is just the beginning. Your collegiate years at UIUC will be life-changing — full of opportunities and experiences that will shape you into an extraordinary engineer. You'll collaborate with people from all walks of life and draw inspiration to create the change you want to see in the world. And Materials Engineering faculty and staff will be with you every step of the way, supporting and guiding you so that you can discover your purpose and passion.

Nancy Sottos

Department Head and Professor, Materials Science and Engineering



#2

undergraduate materials engineering program by U.S. News & World Report

32

of the most sought-after materials engineering faculty

Meet our faculty:
go.matse.illinois.edu/faculty

9:1

student-to-faculty ratio

32%

of undergraduates actively participate in research

96%

of graduates secured their first choice position upon graduation

\$389K

of scholarships money awarded to 2022-23 undergraduates

\$72,601

average full-time starting salary



To learn more about our Materials Engineering undergraduate program and new combined degree in **Materials Engineering and Data Science**, visit go.matse.illinois.edu/admissions

What is Materials Engineering?

Materials engineering is the study of the materials around us: how materials are put together, how they can be used, and how they can be improved to meet and exceed societal needs.

As materials engineers, we study the fundamental behaviors of materials to synthesize and characterize metals, ceramics, electronic materials, polymers, and emerging materials, such as biomaterials, 3D printed materials and smart materials. Drawing heavily on math, chemistry, mechanics, physics, electronics and data, we make materials recyclable, manufacturing energy-efficient, computers faster, medical therapies more effective, and so much more.

Popular industry sectors include automotive, aerospace, biomedical, chemical, energy, manufacturing, nanotechnology and telecommunications.

“My professors are inspiring and supportive, and their genuine passion for Materials Engineering and their students is apparent both in and out of the classroom.”

► *Kayla Huang*

Materials
Engineering
Undergraduate



“ My professors have been a positive force in my undergraduate career. Their motivation to teach is felt in the lecture hall and office hours. ”



► ***Shivam Tailor***

**Materials
Engineering
Undergraduate**

Why Materials Engineering at Illinois?

As a materials engineer, you'll build a fundamental understanding of materials through advanced, tailored courses in chemistry, computer science and physics; contribute to hands-on undergraduate research opportunities with access to innovative research spaces; and participate in a tight-knit community of student organizations such as Materials Advantage, Keramos, Society of Women Engineers, National Society of Black Engineers and Hispanic Professional Engineers. There's no better place to immerse yourself in a vibrant campus culture and obtain a world-class education while enjoying a cost-of-living standard that is a fraction of similar programs.

If you want to make things smaller, faster, stronger and more sustainable, and do so while collaborating with engineers from across disciplines, then Materials Engineering at Illinois is for you.