



Why Materials Science & Engineering?

If you stop and think about it...

"As an MSE major, it's incredibly exciting to be on the cutting edge of discovering new materials that will solve real-world problems."
—Larissa W.,
Class of 2017

...everything is made of some kind of material, right? Whether natural (like stone), or man-made (like carbon fiber composites), materials comprise everything we see and use – computer chips, golf clubs, bridges, airplanes, medical devices. The list is endless.

While most fields in science and engineering are concerned in some way with materials (like aerospace engineering and rockets), Materials Science & Engineering (MSE) is the only field that focuses directly on the materials themselves. As Materials Scientists, we strive to understand why different materials have the properties they do so we can ultimately alter them to make them lighter, stronger, smarter...in other words, just plain better!

Materials Scientists and Engineers are making a real difference in today's technological evolution and are thus increasingly in demand across a variety of industries...which is why Materials Science & Engineering is definitely a major worth stopping and thinking about.

Above: MSE researchers display a durable ice-repellant coating that could help keep everything from airplanes to ships, power lines and windshields ice-free.

Our MSE program offers:

- **6:1 student-to-faculty ratio**
- **Small class sizes and collaborative group work**
- **Engaging lab courses**
- **Entrepreneurial design experience**
- **Diverse courses with broad spectrum of interactive activities**
- **Undergraduate research opportunities**
- **Weekly lunches with MSE alums working in industry**
- **Study abroad programs**

#4

-ranked MSE undergraduate program in the nation according to US News & World Report (2016)

6:1

student-to-faculty ratio

25

committed, world-class faculty members

43%

of MSE students in Fall 2016 were women, 16% higher than the College of Engineering as a whole (27%)

\$91k

Median annual wage for materials engineers, according to U.S. Bureau of Labor Statistics, 2015



For MSE grads, the sky's the limit!

Every engineering endeavor requires a materials expert. Upon graduation, our students are prepared and in demand for a number of different careers. Graduates most often go on to work for a variety of Fortune 500 companies, from Apple to SpaceX. Many go on to graduate studies at prestigious universities, while still others choose the entrepreneurial route and start their own businesses. Below is a list of the wide spectrum of industries in which recent MSE graduates are currently employed:

Aerospace

Automotive

Biomedical/Healthcare

Chemicals

Consulting

Electronics/Computing

Energy

Manufacturing

Oil & Gas

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