Industrial Engineering, Mechanical Engineering

St Ambrose University

The Engineering and Physics Department at St. Ambrose University offers rigorous but rewarding education for students interested in pursuing their Bachelor of Science in Industrial Engineering (BSIE) or a Bachelor of Science in Mechanical Engineering (BSME). Through hands-on experience in real-world situations, engineering at Ambrose will not only prepare you for a life of engineering but make you a sought after asset in the work force. Because engineers often are called on to solve problems and create adaptive solutions, St. Ambrose's liberal arts foundation, which encourages critical thinking and pursuit of a broad base of knowledge, is strong preparation for a career in engineering.

Ambrose Advantages

We're a Close Knit Community. What sets our Engineering Department apart from others is the level of personal attention students experience, and the feeling of community that creates. With an average class size of about 20, you'll have individualized attention and a sense of community with your faculty and peers.

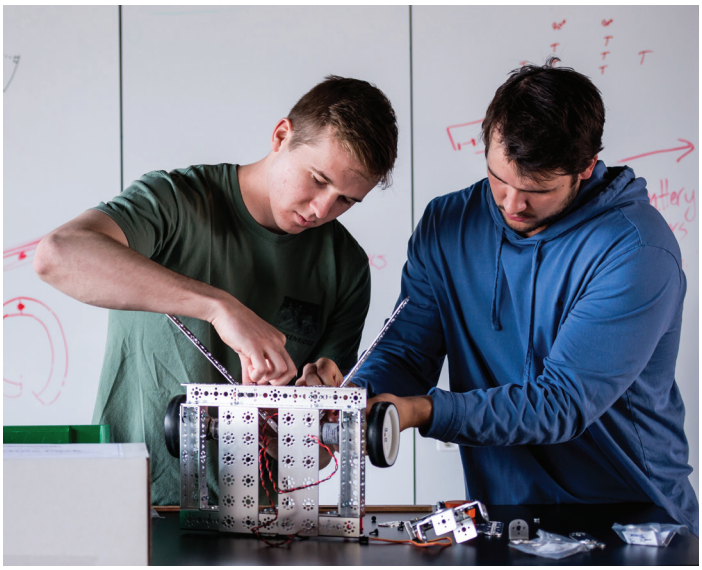
Faculty Connections. Our diverse faculty bring a valuable mix of real world experience and leading-edge research, with backgrounds in biomedical engineering, environmental engineering, industrial engineering, nuclear engineering, mechanical engineering and physics. Many of our engineering faculty members have advanced specialty training. Half of our engineering faculty members are women and all faculty members hold *PhDs*.

You'll get to know your professors and enjoy strong connections and personal attention throughout your studies.

Working to bridge the gender gap in the engineering field, St. Ambrose faculty promote and elevate the profession through special programs specifically designed for women, including a Society of Women Engineers chapter and mentoring programs with women in local industry.

Accreditation. Both the St. Ambrose industrial engineering program and the mechanical engineering program are accredited by ABET (ABET.org). The program requirements, quality of instruction, and control of the curriculum meet or exceed nationally established requirements.

Service Through Engineering. The industrial and mechanical engineering programs are service-oriented and students can work on projects to help people with disabilities. Under the Empowerment Through Technology (ETT) program, students in the industrial and mechanical engineering design lab complete projects for local, national and international clients. For example, one engineering student created a customized communication board for a 15-year-old girl with cerebral palsy in Brazil.



Career Opportunities

With a 100 percent employment rate (for those who pursue it) our engineering students are highly sought after by employers even before they graduate. Through an extensive network of engineering alumni and companies across the country, students gain on-the-job experience in a mandatory internship at leading manufacturers such as Deere & Company, the Rock Island Arsenal, Caterpillar and more.

Career Outlook

> Engineering offers endless opportunities in the workforce and is expected to grow rapidly in the coming years. As a highly respected field engineering graduates will earn far higher salaries

on average, than the typical new college graduate, according to *The Wall Street Journal*.

- The median pay for industrial engineers is $66,000 and the median pay for mechanical engineers is $52,500.

Alumni Success Stories

- Samantha (Lee) Barkley '09, process engineer, ABB (ASEA Brown Boveri) St. Louis. As a Fulbright Scholar working at an HIV/AIDS clinic in Trinidad and Tobago, Samantha completed research on medical record processes and developed ways for medical centers to provide better care.
- Santiago Gonzalez '14 is the Chief Design Engineer for Fraustchi, and runs his own thriving business.
- Jeff Menke '99, Pella Windows senior engineer, recently designed custom windows for the Ambrose Hall renovation at SAU.
- Jeff Stebel '01 is a systems engineer for Dream Chaser Space, which supports NASA and the International Space Station.

A few examples of graduate programs where our engineering alumni have been accepted for advanced studies include:

- Adam Henke went to Southern Illinois University Medical School for his MD degree.
- Ingrid (Scardino) Johnson went to Northern Illinois University for her Master of Science in Engineering Management.
- Justin Keister, '16 is currently pursuing his PhD in Mechanical Engineering, with an emphasis in Biomedical Engineering, at the University of Florida.
- Jenifer Sebile went to Bradley University in Peoria, Illinois, for Master of Science in Industrial Engineering studies.
- Jeff Stebel '01 went to Oregon State University for his MSIE degree.
- Holly Thomas, '15 is currently pursuing her PhD in Biomedical Engineering at the University of Iowa.
- Several alumni have gone on to earn their MBA degree from the University of Iowa or St. Ambrose University.

Where Some of Our Graduates Work

Our graduates have gone on to careers with Accenture, Exxon-Mobile, Ford Motor Company, Genesis Health System, NASA, and many others. Other organizations that have employed St. Ambrose industrial engineering and mechanical engineering alumni include:

- Arconic, industrial engineer
- All-Steel, industrial engineer
- Boeing Charleston, senior industrial engineering manager
- Cobham, environmental health safety engineer
- Corrosion Fluid Products, applications engineer
- Deere & Company, senior industrial engineer
- Fres-co System USA Inc., engineering manager
- HON Company, senior product design engineer
- HON Company, supply chain engineer
- John Deere, industrial engineer
- John Deere, product validation and verification engineer
- John Deere, quality engineer
- Land O'Lakes, senior director of engineering
- Nestle Purina, mechanical engineer
- RTM Associates, mechanical engineer
- Sierra Nevada Corporation Space Systems, senior systems engineer

Your Career: Networking, Internships and Jobs in the Quad Cities

The Quad Cities is a welcoming and fun place to live as a college student. And it is much more than that—it offers a great community to help you prepare for, or even start, your career. This area offers a wide range of engineering internship and employment opportunities at companies such as John Deere, a major global manufacturer based out of the Quad Cities, Genesis Health Systems, and Caterpillar. All of this right on our doorstep!

Companies such as Arconic, one of the world's leading producers of aluminum, rely on advances in engineering. Deere & Company Arconic, HON, Kone, Modern Woodmen of America and many other companies that span the globe have headquarters, branches or administration centers in the Quad City region. These organizations provide great opportunities for networking, internships and jobs.

Get in Touch With Us Today

We invite you to visit St. Ambrose to learn more about the opportunities here. Our quality academic programs provide one of the best private education values in the Midwest. Check it out for yourself: contact our Admissions Office, 563-333-6300 (toll-free 800-383-2627) or admit@sau.edu, or go online to www.sau.edu.

Also, please feel free to contact our Department Chair, Jodi Prosise, PhD, at ProsiseJodiF@sau.edu or 563-333-6485.

St. Ambrose University offers a Bachelor of Science in Industrial Engineering degree, and a Bachelor of Science in Mechanical Engineering degree. For complete curriculum information and course descriptions, consult the Course Catalog at www.sau.edu/catalog.

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