Pursue your passion
Forge your path
Discover a higher standard in education
Practicing what we profess
Our faculty are as accomplished in the field as they are in the classroom. And with an open-door policy and regular office hours, they’re dedicated to guiding and mentoring you.

Smaller classes mean you get individual attention. With average class sizes under 50 students, you’ll get to know your professors.

Building personal connections
Smaller classes mean you get individual attention. With average class sizes under 50 students, you’ll get to know your professors.

Cutting-edge, career-ready curriculum
A state-of-the-art curriculum grounded in experiential learning, plus strong industry partnerships, mean our classes teach the skills employers want. Our faculty are always looking ahead, designing new classes that keep us at the forefront of innovation.

Committed to your success from day one
We offer you the resources of a big university with the caring and personal attention of a small college. We believe the cornerstone of your education should be hands-on experience, which is why you’ll take what you learn in the classroom and apply it to the real world from day one.

Experience speaks volumes to employers
When you graduate from NIU, you’ll be a functional, experienced engineer ready to contribute to your industry from the day you’re hired—which is why many of our students have jobs lined up well in advance of graduation.

Step into a new world
You solve problems. Build. Innovate. You take things apart to see how they work and think about how to make them better—it’s why you’re drawn to engineering. And maybe you can already see a better way forward with cleaner energy, more efficient travel or new technologies that will change the world. We can help you get there.
Keep hands-on state of the art

Turn what you learn in class into reality in more than 35 cutting-edge labs. Get hands-on experience building everything from microprocessors to industrial robots, using the same generation of technology as leading industries across our region. Facilities include a clean room, wind tunnel, soundproof acoustics testing chamber, prototyping lab and more.

Our Advanced Research of Materials and Manufacturing Laboratory is at the forefront of 3D printing and additive manufacturing research—it’s part of the New, Emerging and Advanced Technologies Manufacturing Solutions Center.

Learn more about the work being done in our labs at go.niu.edu/ceet-labs.
Get set up for academic success

Advice to advance your future
Your academic adviser will help you navigate registration and keep you on track to graduate on time. They can also connect you with resources to help with your studies.

Building a better baseline
In your Introduction to Engineering course, you’ll learn about careers, the engineering design process, ethics and more. Start to see where you want to make a difference.

Free (and transformative) tutoring
We have our own free, walk-in tutor lab right in the Engineering Building. Tutoring is available for engineering courses and certain math, physics, chemistry and computer science classes.

Real help in real time
Our 5-Minute Solutions online video tutorials explain classroom concepts in five minutes or less to help you with homework or brush up before a quiz—it’s like having a tutor in your pocket.

Skill-specific prep courses
We offer special courses to help you improve key skills like math or spatial visualization before tackling challenging courses.

Connecting through grouped coursework
We set up Themed Learning Communities, groups of two to four courses with a common theme that are taken by the same group of about 25 students. They help you explore how courses in math or physics apply to engineering.

Honors program exclusive access
If you qualify for the engineering and technology honors program, you’ll get access to smaller classes, specialized coursework and advantages when applying for jobs or graduate school.

TOP RANKED
U.S. News & World Report ranked our College of Engineering and Engineering Technology in the Top 50 Best Undergraduate Programs among engineering schools where doctoral degrees are not offered.
Make your mark, make a difference

In 2016, Oluseun Taiwo, a junior majoring in technology, collaborated with Sarah, a young violinist born without a right hand. She had a serviceable, but bulky prosthetic, and needed something more elegant to elevate her playing. Helping Sarah grew from a project to a passion for Oluseun. Working closely with NIU Professor Federico Sciammarella, an internationally recognized expert in 3D printing, Oluseun created, tested and adapted over a dozen versions of the prosthetic, finally developing one that’s lighter, fits better and improves Sarah’s tone—as well as dramatically increases her confidence.

“I’ve found what I want to do with the rest of my life... I want to design and build objects that make life better for others.”

OLUSEUN TAIWO

The experience also helped him land an assistantship in the Materials Science Division at Argonne National Laboratory.

Impactful senior projects

Students showcase their work and compete in our university-wide Undergraduate Research and Artistry Day and in our college’s Senior Design Day. Each semester, graduating seniors apply what they’ve learned to real-world product design, system solutions or process improvements. Many senior design projects address specific requests from local businesses, and are judged by faculty, alumni and corporate partners.

See recent senior design projects at go.niu.edu/senior-design.
Fuel your curiosity

The NIU Supermileage Team began as a senior design project in 2010 and became an instant hit. The following year the team placed first in the nation and third in the world competition, getting 1,265 miles out of just one gallon of gasoline. In its first eight years, the team placed in the top 3 in the SAE Supermileage competition six times.

In 2015, the Shell Eco-marathon competition flew the NIU Supermileage team to Los Angeles to shoot a commercial at Jay Leno’s Garage. That year, the team placed second in the nation and third in the world.

1,717 miles on one gallon of gasoline took top honors in the 2019 international competition.

Tune in, charge up

Get involved in some of the 20-plus student groups exclusively for College of Engineering and Engineering Technology students. These groups help you develop skills critical to career success—leadership, communication, fundraising and teamwork. You can design, build and race vehicles or robots, join a professional organization or honor society, or make a difference in a service club. The Society of Women Engineers is dedicated to promoting STEM education to children, for example, and Engineers Without Borders designs life-changing solutions like solar power grids and water filtration systems for people around the world.

Student groups

Robotics Club
Mars Rover
Institute of Industrial and Systems Engineering (IISE)
Biomedical Engineers Success Team (BEST)
Society of Automotive and Aerospace Engineers (SAE)
Competition Teams
→ Aero-Design Team
→ Formula Racing Team
→ Mini-Baja Team
→ Supermileage Team
Engineers Without Borders
National Society of Black Engineers (NSBE)
Society for Hispanic Professional Engineers (SHPE)
Society of Women Engineers (SWE)
American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)
American Society of Mechanical Engineers (ASME)
American Society of Safety Engineers (ASSE)
Society of Manufacturing Engineers (SME)
Society of Plastics Engineers
Honor Societies (SPE)
Institute of Electrical and Electronics Engineers (IEEE)
Nu Epsilon Tau
Alpha Pi Mu
Eta Kappa Nu
Meet a few employers of NIU Engineering and Technology graduates:

- Argonne National Lab
- Caterpillar
- Collins Aerospace
- Commonwealth Edison
- Facebook
- Fermilab
- Hamilton Sundstrand
- Ideal Industries
- International Truck and Engine
- Illinois Environmental
- Northrop Grumman
- John Deere
- JPMorgan Chase & Co.
- Kohl’s
- Lockheed Martin
- Mitutoyo
- Motorola
- NASA
- Navistar
- Nestlé
- OMRON
- Raynor
- Society of Automotive Engineers
- SPX
- Tesla
- Texas Instruments
- UniCarriers Americas
- U.S. Nuclear Regulatory Commission
- UPS
- U.S. Air Force
- UTC Aerospace
- Wahl Clipper
- Woodward

Make connections that make careers

Our program goes beyond giving you the knowledge and hands-on experience you need. We also connect you to companies that are scouting the exact skills you have. We host two engineering and technology-specific job and internship fairs each year. Fairs typically have around 60-plus employers looking for student talent.

Meet a few employers of NIU Engineering and Technology graduates:

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- Ideal Industries
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- Illinois Environmental
- Northrop Grumman
- John Deere
- JPMorgan Chase & Co.
- Kohl’s
- Lockheed Martin
- Mitutoyo
- Motorola
- NASA
- Navistar
- Nestlé
- OMRON
- Raynor
- Society of Automotive Engineers
- SPX
- Tesla
- Texas Instruments
- UniCarriers Americas
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- UPS
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- Wahl Clipper
- Woodward

Be the talent employers want

Most College of Engineering and Engineering Technology students have job offers before they even graduate. Employers want the hands-on experience our graduates receive through internships, senior design projects and our network of company-sponsored research.
FROM THEORY TO PRACTICE
Our award-winning faculty are actively involved in game-changing research in such diverse fields as wireless communication, signal processing, machine learning, artificial intelligence, automated sensors, microelectronics and alternative energy.

CAREER OUTLOOK
The work of biomedical engineers spans many professional careers, and provides opportunities in research and development, quality assurance, as well as system and software design for manufacturing, universities, hospitals, research facilities, educational and medical institutions. Choose from one of two tracks in biomedical engineering, biomechanics and biomaterials or biomedical instrumentation including sensors and signal processing.

With a biomedical engineering degree, you can pursue a career at colleges and universities, communication companies, medical equipment companies, electronic companies, engineering firms, hospitals, research facilities, manufacturing firms, power plants, satellite companies, transportation companies, the U.S. military and utility companies.

If you have a desire to help people in the medical, health and wellness field, then biomedical engineering may be your path. Biomedical engineers create medical devices that save lives and improve the quality of life with innovative devices such as pacemakers, and prosthetics. The career prospects for biomedical engineers is vast and growing at quick pace each year.

Nicole Hoffmann
Student, Biomedical Engineering
Student Nicole Hoffmann works in the biology lab on her research project, which involves taking nanoparticles that she created, and testing them in pancreatic cancer cells to see how quickly they are absorbed. Hoffman said that starting from the age of 5, she knew she wanted to be an astronaut. “I’ve always known. My parents thought it was a phase. But it never left my mind.” Her work with nanoparticles is just a stepping-stone toward that goal. By developing nanoparticles that can be easily absorbed, the research lends itself to further development of treatments to counteract bone and muscle atrophy in zero gravity.

Solve problems.
Innovate.
Make a difference.

B.S. in Biomedical Engineering
A biomedical engineering degree combines engineering principles with medical and biological sciences. You’ll design innovative medical equipment and instruments, devices, computer systems, firmware and software used in the ever-growing health care industry. The work of biomedical engineers spans many professional careers, providing opportunities in research and development, quality assurance and systems, and software design.

Biomedical engineers impact the lives of people every day in their work with doctors, therapists and researchers. The role of these specialized engineers is to develop innovative medical equipment and instruments, computer systems, firmware, and software to detect, treat and cure diseases and medical conditions. This discipline combines interdisciplinary engineering principles and applied capacities with medical and biological sciences, which is in great demand in the rapidly-expanding healthcare industry.

From the start of your biomedical engineering degree journey, your education will include hands-on learning experiences in our 30+ state-of-the-art labs, in addition to classes taught by faculty who are experts in their field.
FROM THEORY TO PRACTICE
Our award-winning faculty are actively involved in
game-changing research in such diverse fields as
wireless communication, signal processing, machine
learning, artificial intelligence, automated sensors,
microelectronics and alternative energy.

CAREER OPPORTUNITIES
Alumni of the NIU electrical engineering program work for
a variety of companies in a variety of roles. Some of the
job titles held by our electrical engineering alumni include:

Engineer
Researcher
Cybernetic Systems Engineer
Water Treatment Engineer
IT Analyst
Microelectronics Specialist
Technology Strategist
Technology Sales Director

Engineer
CEO
Researcher
Electrical Engineer
Web Designer
Project Manager
Cybernetic Systems Engineer
Innovation Director
Engineer
Cybernetic Systems Engineer
Process Control Engineer
Engineer
Design and Construction Technician
Engineer
Software Engineer
Engineer
Hardware Applications

Electrical engineers are in high demand. Our program
gives you the skills to develop, design and operate
systems that generate or use electrical energy
including machinery, electronics, audio systems and
digital communications.

Modern life
buzzes at the speed
of connectivity

Lichuan Liu, Ph.D.
Associate Professor of Electrical Engineering
Professor Liu researches digital signal processing, machine learning and active
noise control. Her research has resulted in an artificial intelligence algorithm
that can detect the meaning behind babies’ cries. “Like a special language,
there are lots of health-related information in various sounds,” she said. She
has also developed technology to reduce the noise in a premature infant’s
NICU incubator to preserve the child’s fragile hearing.

ELECTRICAL ENGINEERING EMPHASES
B.S. in Electrical Engineering
Learn to create systems and devices that generate and
operate on electrical energy for work in the aerospace,
health care, computer manufacturing, automotive sector
or countless other industries.

Minors
Electrical Engineering
Biomedical Engineering

Accelerated B.S./M.S. Sequence
You’ll pursue your bachelor’s and master’s degrees
at the same time, and can finish both degrees in as
few as five years.
Technologists manage, operate and maintain complex systems. Learn fundamental skills like welding and advanced mold making while gaining an understanding of theory within disciplines like electrical engineering, manufacturing, energy and industrial management. Gain a mix of practical and theoretical knowledge that makes you employable in nearly every industry. Classes are hands-on, with a focus on learning through doing.

FROM THEORY TO PRACTICE
Nearly every course in our Technology curriculum includes opportunities for hands-on lab work. We have nine laboratories dedicated to areas like automation, state-of-the-art lighting and control, welding, fluid power, plastics and numerical machining.

PERSONALIZED EXPERIENCE
Our program in industrial management and technology offers you the unique ability to tailor your education by selecting your concentration—electronics, design, production or environmental health and safety.

ENGINEERING TECHNOLOGY EMPHASIS

Engineering Technology
Learn concepts in electronics, computers, software, microprocessors and electrical process control.

Manufacturing Engineering Technology
Learn about current manufacturing concepts, processes and equipment.

Industrial Management and Technology
Learn design skills, plus production and electronics technology and environmental safety and health.

Energy and Environmental Technology
Learn about solar, wind, thermal and hydroelectric power, basic and advanced topics in building efficiency; green manufacturing; and reduced energy use.

Applied Manufacturing Technology (online)
This degree is limited to transfer students who already have an Associate of Applied Science (A.A.S.) degree with a major in a recognized technical area. It is an online degree.

The transformation of complexity by applying engineering

Abul K. M. Azad, Ph.D.
Associate Dean and Engineering Technology Professor

Professor Abul K. M. Azad is interested in the “Internet of Things”—how we can leverage the Internet to bring harmony to remote laboratories and enable more effective collaboration. He has taken an active role in standardizing initiatives for the Internet of Things as well as mobile robotics. It’s part of the reason why he’s an editorial board member at the International Journal of Online Engineering and the U.S. Department of Defense relies on his expertise to review proposals.
Industrial and Systems engineers make everything cleaner, better and more efficient. When you use a top-rated product or service that’s well designed, high quality and offers a solid value, you are experiencing the results of industrial and systems engineering. Skills you master as an industrial and systems engineer like efficiency, cost-effectiveness, safety and customer satisfaction translate to virtually every industry. Industrial and systems engineers help manufacturers improve quality and lower costs, streamline hospitals to improve patient care and help retailers design efficient floor plans.

**FROM THEORY TO PRACTICE**

Companies throughout the region call on our Department of Industrial and Systems Engineering for help solving their business challenges. Our faculty have worked in industrial systems and maintain strong ties, so the skills they teach are tailored to address contemporary needs. Your senior design project will likely help a real company optimize its operation.

**CAREER OPPORTUNITIES**

This is a hands-on, real-world field of study, which is why so many local companies rely on our students to help their business. More than three-quarters of students have at least one internship before graduation, and more than half of students have two or more. Many internships lead to job offers before graduation.

**INDUSTRIAL AND SYSTEMS ENGINEERING EMPHASSES**

- Engineering Management: Add business classes to your engineering curriculum to prepare you for a leadership role.
- Health Systems Engineering: Learn to improve productivity and efficiency in the health care industry.
- Manufacturing Systems: Help companies select the right manufacturing process, design efficient manufacturing systems and implement quality control.
- Minors: Sustainable Engineering
- Certificates of Undergraduate Study: Lean Six Sigma, Logistics
- Accelerated B.S./M.S. Sequence: You’ll pursue your bachelor’s and master’s degrees at the same time, and can finish both degrees in as few as five years.

**Madalynn Derro**

Student, Industrial and Systems Engineering

Madalynn Derro is pursuing her B.S. in Industrial and Systems Engineering to be one of the helpers. “I chose this major because of how much I love math and organizing everything around me. Industrial engineers typically deal with optimization of more complex processes or organizations. They really aim to eliminate wastes of time and money and mainly help manage others.” Her interest in helping others has led to opportunities supporting local children’s hospitals through the Alpha Phi sorority, and she even helps new students as an NIU orientation coordinator. “I believe that our community helps anyone, any chance they have, and I believe alumni can take that love of NIU with them everywhere.”
Mechanical engineering takes you into fields limited only by your imagination. Explore robotics, computer-aided design, energy conversion, solid and fluid mechanics, and materials science. Learn about manufacturing, machines and thermodynamics. Our distinguished faculty will guide you as you take on exciting projects and find the subject area that most interests you.

Consider. Tinker. Improve. Repeat.

FROM THEORY TO PRACTICE
As a mechanical engineering student at NIU, you’ll find many opportunities to apply what you learn. Our OMRON-sponsored mechatronics lab is equipped with the latest technology, giving you practical experience with the same type of equipment used in the field. In recent years, mechanical engineering students have developed and led projects for NASA Space Race and Mars Rover competitions, and our students are often leaders in the college’s five Society of Automotive Engineers teams. There are many opportunities to participate in faculty-led research, often leading to internships and employment with respected companies like Honeywell and OMRON.

RESEARCH VARIETY
Energy and sustainability, biomechanics, advanced manufacturing, assistive robotics and swarm technology are some of the top research topics in the Department of Mechanical Engineering.

MECHANICAL ENGINEERING EMPHASIS

Advanced Computing and Simulation
Learn to create interactive 3D realities using visual and auditory stimuli. Using computer simulation games and other advanced resources, you’ll work to understand the construction and role of mathematical models in creating virtual realities.

Sustainable Energy
Gain an understanding of energy conservation and environmental sustainability. Depending on your interests, you can take classes in alternative and renewable energy, propulsion, refrigeration or air conditioning.

Minors
Mechanical Engineering

Accelerated B.S./M.S. Sequence
You’ll pursue your bachelor’s and master’s degrees at the same time, and can finish both degrees in as few as five years.

Brianno Coller, Ph.D.
Professor of Mechanical Engineering

Professor Coller is revolutionizing engineering education, developing video games to help his students master core mechanical engineering concepts. Coller’s fun, challenging games put engineering principles into practice and teach you to think in ways no textbook ever could. In 2015, he was named the Illinois Professor of the Year. And in the 2014 NBC Sports documentary, “Science and Engineering of the 2014 Olympic Winter Games,” he explained the engineering behind the snowboard half-pipe.
Imagine helping to create the highly efficient vehicles of the future. Imagine building robots that can conduct highly technical and intricate tasks. Imagine developing artificial intelligence that makes our world a little safer...

There are no limits to what mechatronics engineers can accomplish with the wide range of skills and ways to apply the principals to the challenges our world presents.

**FROM THEORY TO PRACTICE**

Hands-on experience is one of the highlights of your education at NIU’s CEET. Of the more than 40 labs in the CEET, mechatronics has a design lab, a class-100 clean room, an application oriented Robotics and Mechatronics lab, a CAD/CAM lab, a dedicated electrical engineering lab, and an Intelligent Networks and Systems lab.

Join one of our award-winning student clubs and organizations that are actively involved in engineering design and development, take part in national competitions, and bring home national awards. Some of these organizations include student design clubs such as Robotics Club, Mars Rovers, Supermileage and Baja.

**MECHATRONICS ENGINEERING EMPHASES**

Combining mechanical, computer, electronics and control engineering, mechatronics engineering is a fast-paced emerging field of drones, artificial intelligence, robotics, vehicles, and more. Mechatronic engineers develop smart machines and the mechanical systems, sensing and actuation, control systems, hardware and software that run them. As a mechatronic engineer, you’ll put your skills to work in large global enterprises developing challenging defense technology, and revolutionizing consumer products. You may also work in smaller innovative high tech companies or find research opportunities in fields such as bioengineering, microelectromechanical systems, nanotechnology, and robotics.

**CAREER OUTLOOK**

The opportunities are abundant given the broad scope of mechatronics engineering; graduates are in great demand in industries such as robotics, cyber-physical systems, manufacturing, consumer products, defense, medical and health, aerospace, automotive, materials processing, networking and rehabilitation.

**Di’Quan Ishmon**

Student, Mechatronics Engineering

Di’Quan was a naturally curious child, so an engineering career made perfect sense. He always liked taking things apart and putting them back together.

He chose NIU because hands-on experience in the labs starts freshman year and because he was impressed by the faculty’s research. He chose the fast-growing mechatronics field because it combines electrical and mechanical engineering. He will obtain a combined bachelor’s and master’s degree in NIU’s accelerated 5-year program. The Impact Scholarship he received from NIU will help make that dream a reality. “I want to help the world, and engineering is the foundation of everything surrounding us,” he said.
In scholarships every year based on merit, talent, service, involvement and financial need. Priority application deadline is Nov. 15 for the following school year. Early application is recommended. Your first step in being considered for all NIU scholarships is to fill out a form in AcademicWorks, our campus-wide scholarship application system.

In the 2015–2016 academic year, 84 percent of NIU students received some form of financial aid. Students receive aid based on need as determined by the Free Application for Federal Student Aid (FAFSA). You should complete your FAFSA as soon as possible beginning Oct. 1.

No out of state extras
U.S. students from outside of Illinois pay the same tuition rate as instate students.

Huskie Installment Plan
The Huskie Installment Plan allows you to spread your tuition payments over the semester rather than paying a lump sum.

Truth in tuition
Once you enroll at NIU as a degree-seeking undergraduate, your tuition rate is locked in for the next four years—no surprise tuition hikes like other universities.
Discover DeKalb
Northern Illinois University
At Northern Illinois University, you can build an educational experience that is all your own. With a wide variety of academic programs, more than 300 student organizations and many opportunities for hands-on learning, we offer you the resources only a large university can. Yet, much like a small college, you’ll receive personal attention and guidance from faculty, advisers and staff to help you along the way.

That’s why NIU ranked third among public colleges and universities in Illinois and ninth overall on the College Choice list of the 25 Best Colleges in Illinois. We’re dedicated to helping you achieve success, because your future is our focus.

Welcome to college life in DeKalb
Charming DeKalb offers the affordability and community atmosphere of a small town, but has many of the amenities of a larger city including shopping, dining, movie theaters and more. Campus is only 65 miles west of Chicago, so you get to enjoy many of the benefits of city life while having a quaint college town to come home to. And with Huskie Bus service and a daily stop on the Greyhound, it’s easy and inexpensive to get to Chicago or O’Hare Airport. Plus, Chicago and nearby Rockford offer scores of job, research and internship opportunities.

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Welcome!

On behalf of the faculty and staff, welcome! Whether you are a freshman or transfer student, we are excited to support your academic and personal success. The experience our students gain is comprehensive and reflects all aspects of engineering design and industry practice, including how professionals communicate ideas, how intellectual property impacts day to day engineering operations and how ethics impacts influences engineering decisions. My door is always open and I welcome your thoughts and ideas.

Donald R. Peterson, Ph.D.
Dean and Professor of Mechanical Engineering

Check us out

Join us for a personalized tour
Want to see firsthand what the NIU College of Engineering and Engineering Technology has to offer? Come visit. Take a private tour of our Engineering Building, see our state-of-the-art labs, get your questions answered by faculty and staff, and meet current students. Call 815-753-9961 or email ceet@niu.edu.

Visit during our open houses
NIU hosts open houses throughout the year. At our open houses, you can tour our labs, campus, residence halls and classroom buildings. Find our next open house at niu.edu/admissions.

Contact
niu.edu/ceet

College of Engineering and Engineering Technology
Northern Illinois University
590 Garden Road, DeKalb, IL 60115