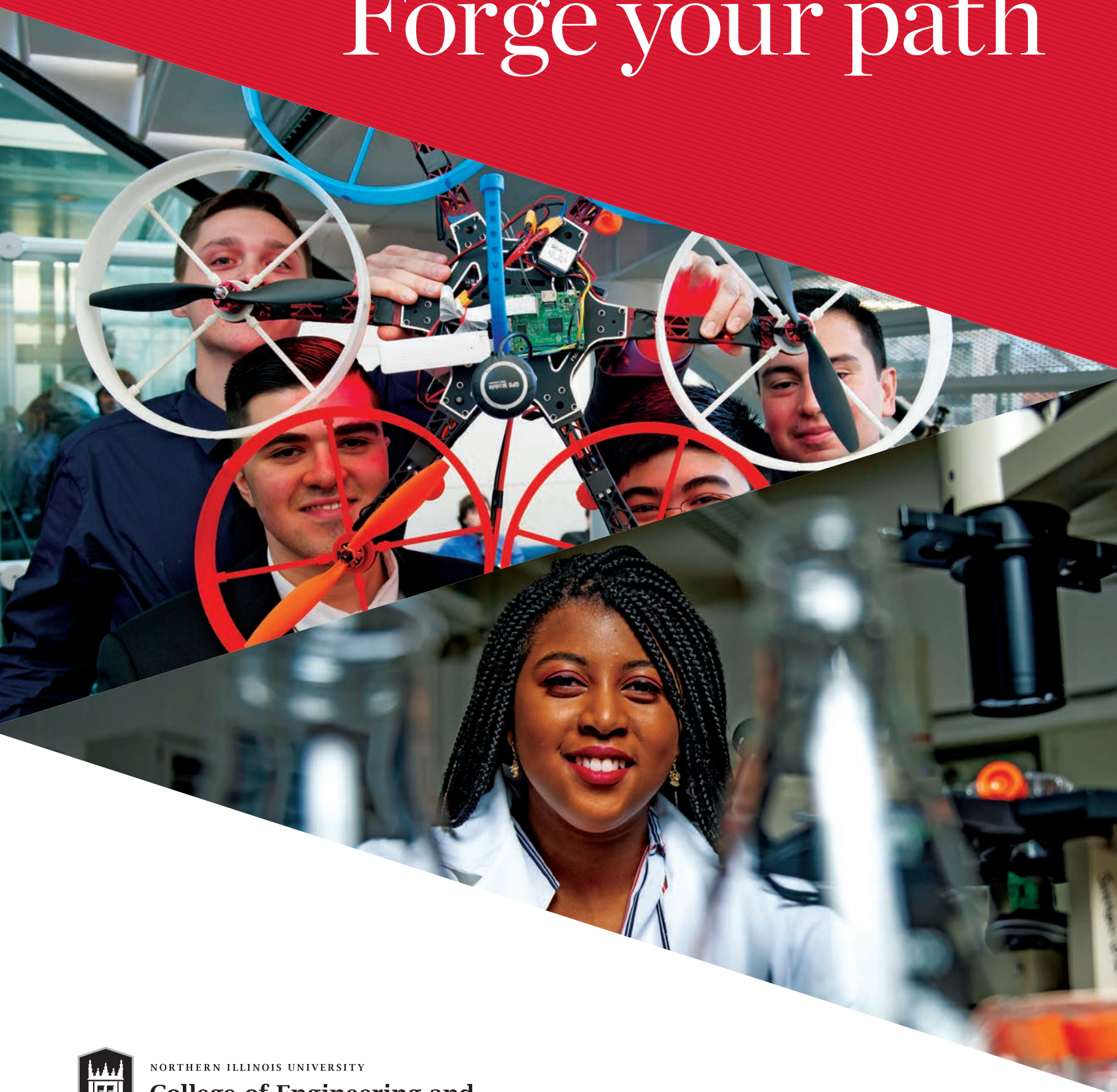


PURSUE YOUR PASSION

# Forge your path



NORTHERN ILLINOIS UNIVERSITY

College of Engineering and  
Engineering Technology



# 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.

## **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.





## 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.

### Building personal connections

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

### Programs customized to your pursuit

Get the support you need in your studies to pursue internships, collegiate athletics or passions in different avenues of engineering.

### 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.

# 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](http://go.niu.edu/ceet-labs).







## Labs and facilities

Advanced Research  
of Materials and  
Manufacturing Lab

Automation Lab

Baxter Reliability Lab

Biomedical Engineering and  
Sensor Lab

Building Energy Efficiency  
Ergonomics and Management  
(BEEEM) Laboratory

CAD/CAM Lab

Digital Communications Lab

Digital and Communication  
Systems Lab

Digital Signal Processing Lab

Electrical Engineering  
Design Lab

Electrical Engineering  
Undergraduate Lab

Electrodynamics Lab

Ergonomics Lab

Fluid Applications Lab

Fluid Dynamics Lab

General Electronics Lab

Heat and Mass Transfer Lab

Integrated Circuit Design Lab

Internet of Things Lab

Lean Manufacturing Lab

Logistics Lab

Machining Technology Lab

Materials Analysis Lab

Metrology Lab

Microelectronics Research  
and Development Lab

Microwaves and  
Electromagnetics Lab

Numerical Machining Lab

Omron Robotics and  
Mechatronics Lab

Plastics Lab

Power Systems Lab

Rapid Prototyping Lab

Robotics and Intelligent  
Systems Lab

Welding Lab

Vibrations Lab

# 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.



# Engage in real research

Our faculty and undergraduates are actively engineering solutions to problems around the world through research sponsored by private industry and public agencies, including Fermi National Accelerator Laboratory, the National Science Foundation, the State of Illinois and more.

Research opportunities for undergraduates abound, from participating in a faculty-led research project to working an internship to student organization projects like building an eco-friendly snowmobile or designing a water filtration system for a village in Mexico.







## 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](http://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.

Eco-marathon

#ShellEcoMarathon







## 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 (NBSE)

---

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



# 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.



## 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:

Argonne National Lab

JPMorgan Chase & Co.

SPX

Caterpillar

Kohl's

Tesla

Collins Aerospace

Lockheed Martin

Texas Instruments

Commonwealth Edison

Mitutoyo

UniCarriers Americas

Facebook

Motorola

U.S. Nuclear Regulatory  
Commission

Fermilab

NASA

UPS

Hamilton Sundstrand

Navistar

U.S. Air Force

Ideal Industries

Nestlé

UTC Aerospace

International Truck and Engine

OMRON

Wahl Clipper

Illinois Environmental

Raynor

Woodward

Northrop Grumman

Society of Automotive  
Engineers

John Deere



# Solve problems. Innovate. Make a difference.

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.



## 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 provided 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.

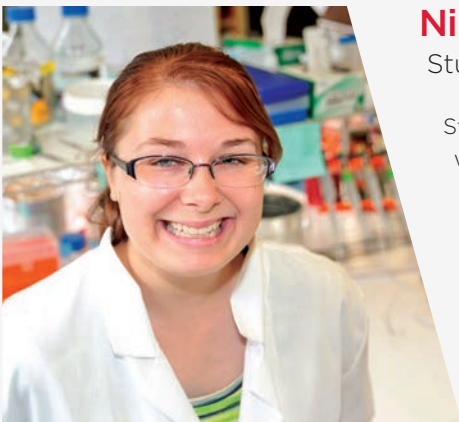
## BIOMEDICAL ENGINEERING EMPHASIS

### 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 35+ state-of-the-art labs, in addition to classes taught by faculty who are experts in their field.



### 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.



# Modern life buzzes at the speed of connectivity

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.



## 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	CEO
Researcher	Electrical Engineer
Web Designer	Project Manager
Cybernetic Systems Engineer	Innovation Director
Water Treatment Engineer	Process Control Engineer
IT Analyst	Design and Construction Technician
Microelectronics Specialist	Software Engineer
Technology Strategist	Hardware Applications
Technology Sales Director	

## ELECTRICAL ENGINEERING EMPHASES

### B.S. in Electrical Engineering

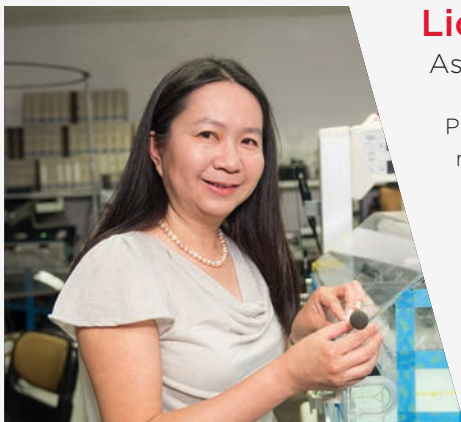
Learn to create systems and devices that generate and operate on electrical energy for work in the aerospace, health care, computer manufacturing, automotive sector or countless other industries.

### 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.



## 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.

A photograph of four students in a workshop. On the left, a white Denso robotic arm is mounted on a metal frame. One student in a light blue shirt is looking at the arm. Another student in a dark blue sweater is looking at a handheld device held by a student in a light blue striped shirt. A fourth student in a white and blue striped shirt is also looking at the device. The background shows industrial equipment and a bright workshop environment.

# The transformation of complexity by applying engineering

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 EMPHASES

### Electrical 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.



## 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.

# See the big picture and sweat the small details

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 EMPHASES

### 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."

# Consider. Tinker. Improve. Repeat.

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.



## 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 EMPHASES

### 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.



# Explore new ideas. Create new technology.

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.

## 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.

## 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.



### 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.



# Make the **smart, accessible** choice

We can help you navigate scholarships and financial aid. In addition to grants and loans, there are a number of scholarship programs, state and university waiver programs, and educational assistance programs for eligible students. Our Scholarship Office exists to help you uncover scholarship opportunities and manage the application process. You can apply for all NIU scholarships with a single form through our AcademicWorks online scholarship application system.

Waivers are similar to scholarships and are awarded by the university and various state agencies. Information on waiver programs is available through the Scholarship Office or Financial Aid Office.

---

### **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.



# Uncover customizable yet affordable education

## Scholarships

NIU awards more than \$13 million 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.

## Financial aid

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.

**\$13M**

In scholarships every year based on merit, talent, service, involvement and financial need.



# Are you **NIU**?

Here are our freshman admission requirements. Apply today.

**990 SAT/19 ACT and 2.75 cumulative GPA**  
(on a 4.0 scale) or top half of your class.

OR

**1140 SAT/23 ACT and 2.5 cumulative GPA**  
(on a 4.0 scale) or top two-thirds of your class or hold a GED certificate.

If you took the SAT prior to March 2016, a 910 SAT is required with 2.75 GPA and a 1070 SAT is required with a 2.5 GPA.

If you hold a GED certificate or do not meet admission requirements, contact the Office of Admissions for admissions review.

If you do not meet admission requirements, contact the Office of Admissions for more information on opportunities for admission at [admissions@niu.edu](mailto:admissions@niu.edu).

## Transfer agreements

The College of Engineering and Engineering Technology has transfer articulation agreements with dozens of regional community colleges to make the process of transferring your community college credits as seamless as possible. For more information or to view transfer guides for your community college, contact the Central Advising Office at **815-753-8024** or visit [niu.edu/admissions/transfer/credits.html](http://niu.edu/admissions/transfer/credits.html).

## Transfer requirements

If you've completed up to 12 semester hours of credit, you can be admitted as a freshman. If you've earned 13–24 semester hours of credit, you must meet freshman admission requirements, and be in good standing at the last college or university you attended. If you've earned more than 24 semester hours of credit at the time of application, have a 2.0 cumulative GPA and are in good standing at the last college or university you attended, then you have what it takes to be a Huskie.



## Huskie for life

Northern Illinois University has a close-knit alumni base of nearly a quarter-million graduates. Upon graduating from the College of Engineering and Engineering Technology, new alumni are presented with a challenge coin by the Engineering and Technology Alumni Society. The coin is a symbol of the strength and commitment it took to graduate, and a reminder of connections made and lasting relationships built at NIU.



# 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.

17,169

Total university enrollment

100+

Undergraduate programs

16:1

Student-to-Faculty ratio

84%

Students receiving financial aid

900+

Students from over 70 countries

3,000

On-campus student jobs

300+

Student organizations

16

NCAA teams

31

Sport clubs

6

Residence halls





# 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](mailto:ceet@niu.edu)**.

-  NIUEngineering
-  NIUCEET
-  NIUCEET

## 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](http://niu.edu/admissions)**.

## Contact

[niu.edu/ceet](http://niu.edu/ceet)

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



NORTHERN ILLINOIS UNIVERSITY

**College of Engineering and  
Engineering Technology**

[niu.edu/ceet](http://niu.edu/ceet)

[ceet@niu.edu](mailto:ceet@niu.edu)

815-753-1442