Donald R. Peterson, PhD, MS, FAIMBE
Dean and
Professor of Mechanical Engineering
The CEET Promise

We teach students to innovate, solve real-world problems, and make a difference. Through expert faculty, state-of-the-art laboratories, and partnerships with industry, students are well prepared for a successful career when they enter our global workforce.
About CEET

• Youngest college on campus (est. 1985)
• Practiced-based college with many partnerships with industry
• Accredited by ABET and ATMAE
• All courses taught by faculty, most of whom hold doctoral degrees
• More than 12,000 alumni and 77% of whom live in IL
CEET by the Numbers

1,456 engineering students
24 average class size
25:1 students to faculty

40 state-of-the-art labs
38 2020 US News & World Report Ranking
   (for programs with no doctorate)
CEET Diversity
Undergraduate and Graduate

- White: 58%
- Black: 19%
- Asian: 8%
- Hispanic: 10%
- Non Res: 13%
- 2 or more: 4%

14% Female
Academic Programs

- Biomedical Engineering – B.S.
- Electrical Engineering – B.S., M.S., Ph.D.
- Industrial & Systems Engineering – B.S., M.S., Ph.D.
- Mechanical Engineering – B.S., M.S., Ph.D.
- Mechatronics Engineering – B.S.
- Engineering Technology – B.S., M.S.

Online Degrees
- Industrial Management – M.S.
- Engineering Management – M.S.
- Applied Manufacturing Technology – B.S.

16 Grad. Certificates across 3 disciplines
- Engineering Technology
- Industrial and Systems Engineering
- Mechanical Engineering
2+2 Articulation Agreements

Black Hawk College, Moline
Carl Sandburg College, Galesburg
City Colleges of Chicago
College of DuPage, Glen Ellyn
College of Lake County, Grayslake
Elgin Community College, Elgin
Harper College, Palatine
Heartland Community College, Normal
Highland Community College, Freeport
Joliet Junior College, Joliet
Illinois Central College, East Peoria
Illinois Valley Community College, Oglesby
Kankakee Community College, Kankakee
Kishwaukee College, Malta
Lake Land College, Mattoon
McHenry County College, Crystal Lake
Moraine Valley Community College, Palos Hills
Oakton Community College, Des Plaines
Prairie State College, Chicago Heights
Rock Valley College, Rockford
Sauk Valley Community College, Dixon
South Suburban College, South Holland

In Progress: Gateway CC, Racine, WI
MATC, Milwaukee, WI
St. Louis CC, St. Louis, MO
NIU and Rock Valley College

B.S. Mechanical Engineering

- **2017 Award of Excellence** for Talent and Place Development by the University Economic Development Association (UEDA)
International Articulation Agreements

- France
- Czech Republic
- Turkey
- China
- Pakistan
- Saudi Arabia
- Qatar (In Progress)
- Bangladesh
- Japan
- Korea
- Columbia
- Brazil

College of Engineering and Engineering Technology
Student Engagement

7

student teams

12

student chapters of professional societies

2

engineering honors societies

Robotics Club
• 1st place in Midwestern Robotics Design Competition (MRDC) for two consecutive years

Supermileage Team
• 1,717 miles on one gallon of gasoline
• 2019 International Competition
  o 2nd overall, won the Endurance Award, and placed 1st for Internal Combustion Engine Prototype
Meet a Few Employers of Our Graduates

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

NIU students have the advantage of being located near hundreds of global companies for access to internships and employment.
Corporate Partnerships
Collaboration with National Labs

Collaboration with Non-Profit Entities
Research and Grants

Educational and Workforce Development Grants
• NSF STEP PROMISE Grant
• Department of Commerce and Department of Labor
• NSF grant on alternative energy and computer games
• US Department of Education on STEM education

Advanced Manufacturing Grants
• DARPA
• NIST

Interdisciplinary Grants with Science Faculty
• NSF
• DOE
  o Fermi National lab
  o Argonne National Lab

Industry Grants
• Engineering in Residence
Industry Fellows Program (IFP)

**New PhD programs**
- Electrical Engineering
- Industrial and Systems Engineering
- Mechanical Engineering

**Key objectives**
- Innovation of new products and processes
- Managing complexities of theories and applications
- Immerse into actual engineering design and processes relevant to industry
- Develop creative solutions for real-world and practical applications

**IFP starts in the 2\textsuperscript{nd} year after completion of the candidacy exam**
- Fellows are sponsored by industry and work at worksite
- Fellows are mentored both faculty and industry mentors
- Fellows apply doctoral-level engineering solutions to contemporary industrial challenges at actual worksites
Looking Ahead

Strategic growth in our new and existing programs

- Ph.D. in *Electrical Engineering*
- Ph.D. in *Industrial Systems Engineering*
- Ph.D. in *Mechanical Engineering*
- B.S. in *Biomedical Engineering*
- B.S. in *Mechatronics Engineering*

B.S. in Civil and Environmental Engineering

- In support of NICCS and IIN

Strengthening partnerships with industry and national labs

Regional, national, and global posturing
Thank You!

Senior Design Demonstration Day

Please join us for our senior design showcase of the College of Engineering and Engineering Technology at Northern Illinois University.

Friday, May 1
Noon-3 p.m.

NIU Convocation Center, 1525 W. Lincoln Highway, DeKalb, Illinois

Over 200 students will showcase their innovative engineering and technology senior projects and designs. Open to the public! Visitors are welcome - Free admission!