



INVENTIVE  
IMAGINATIVE  
IMPELLED  
INTELLIGENT  
INQUIRING

# engineering. IT'S YOU!

Developed to offer students an exemplary curriculum and ample opportunities for **real-life learning experiences**, the Purdue Calumet engineering program is an excellent value, providing a quality education with small classes and a faculty who emphasize student success. With campus proximity within 25 miles of Chicago and the city's numerous employers, job placement is excellent.

Explore what Purdue Calumet has to offer you, and discover how our engineering graduates are **changing the world and benefiting society** while enjoying exceptional career opportunities.



In today's world, engineers are at the forefront of change. Whether at work, at home, at an entertainment venue, or on the road, we are in constant contact with what engineers do. Simply stated, **engineers make a world of difference.**

**Engineers determine why and how things work.**

They do so by creating, designing, and analyzing. They develop products, procedures, cutting edge applications, and solutions to technical problems that impact everyone. Engineers are creators, innovators, communicators, and problem solvers. Within our fast-paced society, engineering career opportunities continue to grow.

engineering.  
**IT'S EXCITING!**



*"The mentorship provided to me by my professors and advisors (at Purdue Calumet) has allowed me to succeed academically and my extensive involvement in engineering societies has allowed me to develop socially and professionally."*

— DANIELA DUKLESKA, ELECTRICAL ENGINEERING



# purdue calumet IT'S EXCELLENT!

Ranked by US News & World Report **among the top 50 Best Undergraduate Engineering Programs** in the country at a non-doctoral school, Purdue Calumet offers engineering students at all levels the practical experience through applied learning that employers value. With small class sizes and personal attention, Purdue Calumet engineering students can count on a quality education geared toward their success.

The faculty, with PhD degrees from MIT, Notre Dame, Purdue University, Carnegie Mellon, and other respected institutions, are dedicated to teaching, are active in research, and are well recognized in professional societies. Many are **award winners on campus, nationally, and internationally.**

Accredited by ABET\*, the Purdue Calumet engineering program produces graduates who often receive **multiple job offers for high paying positions.** Today, successful alumni are found leading the way at Intel, AT&T, US Steel, ArcelorMittal, other Fortune 500 companies, and government agencies such as NASA and the Department of Defense.

*\*The Bachelor of Science in Computer Engineering, Electrical Engineering, and Mechanical Engineering degrees are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). The new The Bachelor of Science in Civil Engineering will be submitted for accreditation when eligible.*



*"The majority of my design and analysis (as an aerospace engineer at the Marshall Space Flight Center ) could not be accomplished without the knowledge gained in my undergraduate and graduate studies at Purdue Calumet."*

— BRYAN ROBLES

# unequaled opportunity. IT'S YOURS!

Purdue Calumet is unique in its way of preparing students to enter the job market. Through **national and international competitions, experiential learning, internships, on-campus recruiting events, research and industrial projects, senior engineering design, and professional society memberships**, students meet and interact with potential employers, intent on hiring Purdue Calumet credentialed engineering graduates. Students at all levels and across majors work and learn together, gaining **exceptional interdisciplinary experience**.



## Competitions

- Great Moonbuggy Race – Organized by NASA
- Mini Baja and Formula One – Organized by the Society of Automobile Engineers

## Experiential Learning

A graduation requirement, experiential learning includes internships, cooperative education, applied research with faculty, study abroad, and senior engineering design.

## Internships

In close proximity to some of the world's largest steel producers and other industries, Purdue Calumet students have excellent world-wide internship opportunities.

## On-Campus Recruiting

Companies from around the country provide information sessions where they meet and greet students and arrange interviews.

## Student Chapters of Professional Societies

- American Society of Mechanical Engineers (ASME)
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
- Civil Engineering Club
- Institute of Electrical and Electronics Engineers (IEEE)
- National Society of Black Engineers (NSBE)
- Society of Automobile Engineers (SAE)
- Society of Hispanic Professional Engineers (SHPE)
- Society for Women Engineers (SWE)

## Scholarships

A variety of merit scholarships, such as the ArcelorMittal, Best and Brightest, Chancellor, Presnak, and more are available.

## Research

Research and industrial projects conducted by Purdue Calumet engineering faculty have produced many funded research opportunities for undergraduate and graduate students. Our students have engaged with faculty in research relative to air quality, bio-medical, computer networking, computational fluid dynamics, electronic cooling, electric vehicles, energy efficiency, finite element analysis, homeland security, imaging analysis, metallurgy, nanotechnology, renewable energy, RFID, robotics, simulation and visualization, solid waste, speech and signal processing, stress analysis, virtual reality, water resources, water quality, and others. Our faculty collaborate with national laboratories, other universities, and industries ensuring students are exposed to cutting edge research and exciting industrial projects.



*"Purdue Calumet has been the perfect fit for me throughout my undergraduate career. I've always had unparalleled access to engineering professors who have first rate knowledge of their field. This constant support has given me the skills that I require in order to succeed in engineering." — BILL DURGIN*

# The engineering program

*"I believe my internship as well as a degree in Mechanical Engineering has guided me into multiple job offers after graduation."*

— JOSHUA MARLOW



Engineering is a broad field and Purdue Calumet ensures students develop the type of analytical skills and technological expertise that can be adapted to a variety of applications. Students may select from five undergraduate engineering degrees, **earn bachelor's and master's degrees in five years** through the University's 4 + 1 program, or enroll in a traditional master's program.

Whether armed with an undergraduate or a graduate degree, an **internationally respected Purdue engineering degree** puts students on the road to life-long success.

## **Bachelor of Science in Civil Engineering**

*Three options: Environmental, Transportation, Structures*

Civil engineering encompasses fields such as structural, environmental, transportation, and geotechnical engineering; water resources; and construction management. Civil engineers often tackle tough environmental problems and are responsible for designing roads, buildings, airports, tunnels, dams, bridges, and water supply and sewage systems.

## **Bachelor of Science in Computer Engineering**

*Two options: Hardware, Software*

A rapidly growing field with virtually unlimited opportunities, computer engineering is integral to today's society. Computer engineers are involved in diverse projects such as the design of microprocessors and computers, development of servers and switches to support the Internet, creation of software and computer graphics, generation of robotics, design of biomedical devices, and much more.



### **Bachelor of Science in Electrical Engineering**

If it is powered by or produces electricity, electrical engineers are involved. They may work in medical technology; with cell phones; on handheld games; for electric utilities and wind farms; with radio, television and other entertainment systems; design robotic systems; work in the aviation industry; and on the development of electric and hybrid vehicles.

### **Bachelor of Science in Mechanical Engineering**

One of the broadest engineering disciplines, mechanical engineers touch virtually every product or service in modern life. Examples include automobiles; design and application of robotics; heating, ventilation and air conditioning systems; conventional and alternative energy systems; biomedical devices; and manufacturing and industrial systems.

### **Bachelor of Science in Engineering – Interdisciplinary Engineering**

Interdisciplinary engineering accommodates a degree objective with broad flexibility, few designated technical courses and the opportunity for interdisciplinary studies. It provides excellent preparation for medical, law and other professional schools.

### **Minor in Mechatronics**

Mechatronics is the combination of mechanical and electrical systems for applications such as robotics. This minor is available to electrical and mechanical engineers.

### **Master of Science in Engineering**

Obtained after a receiving a traditional four-year degree, or through Purdue Calumet's accelerated 4+1 program, a Master's in Engineering helps students advance in their desired career path or prepare for further graduate studies.

Because of the unique urban setting of the campus, Purdue Calumet enjoys partnerships with area industries. As a result, students benefit from such experiential opportunities as **internships and other hands-on training, leading to jobs upon graduation**. Many team-based senior design projects also come from these industries, as do generous scholarship offers.

Purdue Calumet engineering students are encouraged to explore the world of engineering right from the start. With faculty involved in numerous on-going research or industrial projects, **undergraduate and graduate students have opportunities to work as research assistants**. While working under the supervision of faculty and industry advisors, and with access to university research centers, institutes and laboratories, and local companies, **students often play key roles**.



real world.  
**IT'S here!**



To arrange a visit, or talk to a representative,  
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or contact:

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**1-800 HI-PURDUE** (ext 2472)  
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*An equal access, equal opportunity, affirmative action  
employer that is committed to a diverse workplace*

**PURDUE**  
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DEPARTMENTS OF  
ENGINEERING