ELEVATE
CORPORATE PARTNERSHIPS
INDUSTRIAL ENGINEERING: THE PERSISTENT PURSUIT OF EXCELLENCE

Industrial engineers (IEs) are constantly striving for efficiency & efficacy - thus continuous improvement. Let us work with you to best serve your needs through multi-faceted engagement.

By allowing us to tackle your challenges, you will benefit from additional engineering resources while meeting top talent. Your engagement will increase your recruiting success by exposing students to the exciting opportunities at your company. Purdue has made it easier to work with world-renowned faculty by revising our contracting & IP models. This includes new corporate-friendly IP guidelines for student projects.

When you want well-trained technical talent, look no further than our Professional Masters program students. Besides mentoring & training to hone professional skills, this program culminates in a capstone project with Masters-level solutions.

Perhaps an expert-taught executive program tailored to your need would introduce you & your leadership team to leading edge technologies, identify emerging trends, & empower transformational, data-driven decision making.

Our school builds on the combined strength of corporate partners, outstanding faculty, & accomplished alumni working hand-in-hand to train tomorrow’s leaders. We look forward to partnering with you.
BECOME A PART OF THE JOURNEY

Industrial Engineers are **DESIGNERS, ANALYZERS & MANAGERS** of complex human integrated systems.

We are **OPTIMIZERS**; striking a balance of low cost, high productivity, & maximum profit.

We are **INTEGRATORS** of information, people, material resources, & equipment.

**RECRUITING TALENT**
- Internships & Co-Ops
- Exclusive Company Days
- Career Fairs & Info Sessions

**SHAPING EDUCATION**
- Mentoring Students
- Executive Education
- Professional Masters Program

**SOLVING PROBLEMS**
- Capstone Projects
- Faculty Collaboration
- Executive-in-Residence
A FUTURE BUILT ON
FUNDAMENTALS

DIGITAL MANUFACTURING
Internet of Things (IoT)
Factory of the Future
Cyber-Physical Systems
Digital Twins

HUMAN-MACHINE INTEGRATION
Collaborative Robotics
Virtual & Augmented Reality
Adaptable Interface Design
Game-Based Learning

PRODUCTION SYSTEMS
Inventory Control
Lean Manufacturing
Facilities Design & Material Flow

HUMAN FACTORS
Work Design & Measurement
Cognitive Task Analysis
Team & Group Dynamics

RISK MANAGEMENT
Predictive Algorithms
Market Design
Multi-Objective Decision Analysis
Risk Perception & Response

SYSTEMS MANAGEMENT
Engineering Economics & Finance
Project Management
Organizational Design
OPERATIONS RESEARCH
- Optimization Modeling
- Stochastic Modeling & Queueing Analyses
- Simulation Modeling

MANUFACTURING
- Product Design
- Manufacturing Processes & Materials
- Quality & Reliability Analysis

INFORMATION SYSTEMS
- Cyber Infrastructure
- Machine Learning & AI
- Enterprise Resource Planning

NOVEL MATERIALS
- Nano- / Bio-Materials
- Additive Manufacturing
- Smart Wearable & Implantable Devices
- Flexible / Programmable Materials

DATA-DRIVEN DECISION MAKING
- Computational Probability
- Multi-Agent & Autonomous Systems
- Distributed Algorithms
- Quantum & Other Novel Computing Paradigms

RESILIENT SUPPLY CHAINS
- Complex Emergent Systems
- Self-Healing Networks
- Smart Grids
- Sharing Economy
Purdue Industrial Engineering capstone projects are inspired and supported by our partnerships. Each project involves a two-way relationship that promises significant returns for your philanthropic investment and participation.

### What It Takes:

- **$5K Donation**
- **1 Point of Contact**
- **2-4 Hours per Week**
- **1 Technical Project**

### What You Support:

- **10 Weeks**
- **3-4 Students**
- **1 Poster Presentation**
- **3+1 Status Reports & Written Final**
- **400 Average Student Hours**
- **1 On-Site Presentation**
- **Multiple On-Site Visits for Data Analysis**
PROJECT EXAMPLES: bit.ly/IEPastProjects

SUBMIT PROJECTS

Submissions require:
- Company Information
- Champion’s Contact
- Project Title
- Brief Summary

bit.ly/PurdueIECorpProjects

IP PROTECTION

Intellectual property rights are available to sponsors. NDAs are commonly issued between students, course facilitators and the sponsoring organization.

CONTACT

Aaron Ramsey,
Director of Industrial Relations
aaronramsey@purdue.edu
765.496.0943
765.490.2432

HAIL PURDUE - $5,000 or $25,000 5 year pledge

Engage in one senior design capstone project
Connect with IE student organizations or classes
Present to IE design class and meet faculty to discuss project
Attend campus for semester end, capstone poster exhibition
Recruit at IE Career Fair
Host student Information Session

BOILER UP - $15,000 or $75,000 5 year pledge

Engage in total of four senior design capstone projects
Promote brand on IE video signage, social media and IE website
Access the private Purdue IE LinkedIn group
Meet with Purdue IE faculty
Host private recruiting day in school lobby
Maximize presence at recruiting fair with double space

BOILERMAKER SPECIAL - $25,000 or $125,000 5 year pledge

Engage in total of five senior design capstone projects
Receive annual Future IE Graduates student profiles
Promote job opportunities in IE announcements
Host lunch or dinner for IE students to talk about your organization in informal setting
Name a student team award from your organization during the IE awards ceremony
PROFESSIONAL EDUCATION

PROFESSIONAL MASTERS

DEVELOPING LEADERS OF TOMORROW

READY-TO-LAUNCH TALENT

The Professional Masters Program prepares well-trained talent that is ready to contribute to your company on day one.

LET US MEET THE NEED

The Professional Masters Program (PMP) provides a mix of courses from our highly-ranked Industrial Engineering Graduate Program & targeted professional development activities.

With 21 credit hours of coursework, students have flexibility to pursue a plan of study that suits their professional development needs in the core areas of industrial engineering & beyond.

The program features nine credit hours of professional development and practicum through an industry-sponsored capstone project & professional development activities. The program is designed to connect you with leaders of tomorrow with strong technical & professional skills.

APPLICATIONS ACCEPTED

https://bit.ly/PurdueIEPMP
**SPONSOR PMP-MSIE PROGRAM**

**Professional Masters Two-Semester Capstone Project**

**WHAT IT TAKES:**
- $50k Donation
- 1 Project Stakeholder

**WHAT YOU SUPPORT:**
- 28 Weeks
- 2-4 Students
- 1 Professor
- 1+1 Proposal + Status Update
- 1120 Average Student Hours
- 1 Weekly Virtual Meeting
- 3-7 Multiple Site Visits
- 1 Final Term Report to Company

**Support Covers**
- Team Traveling Expenses
- Project Hours
- Faculty Coaching
- PMP Scholarship

**Long-Term Benefits**
- Multi-Phased CI Projects
- Long-Term Talent Pipeline
- Recruiting Benefits

**Two Cycles**
- Late August - Early December
- Mid-January - Early May

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**Project Partners Needed**

**BEN FONG, PhD, PE**
Associate Professor of Practice
nbfong@purdue.edu
CONTINUING EDUCATION

ONLINE MASTERS

HELPING PROFESSIONALS REACH HIGHER

DEVELOP RISING STARS

The Online Masters Program allows your employees to gain credentials for career growth while employed.

LET US MEET THE NEED

The Online Masters in Industrial Engineering is ranked #1 in the nation by U.S. News & World Report.

Students have access to the same courses & professors from our in-person Industrial Engineering Graduate Program.

Designed for non-traditional students, the program provides the maximum flexibility to pursue courses in their topic of interest.

LEARN MORE

http://bit.ly/PurdueOnlineMSIE-MSE

School of Industrial Engineering
INNOVATE COLLABORATIVELY

Sponsoring research engages world-renowned faculty to provide innovative solutions for your business.

Faculty and students work on your project, providing the highest level of collaboration.

Your business becomes known to talented students.

MENTOR STUDENTS

Each of us have been the beneficiary of a guide or mentor from time to time. Share your experience & wisdom with students through the two-way mentorship program while better understanding the perspectives of young talent.

RECRUIT TALENT

Industrial Engineering presents many opportunities to increase your visibility, share corporate culture, & inspire students with your company’s vision.

The school & student organizations sponsor semi-annual career fairs exclusively for IE students & partners.

You will have access to all of our top students, Graduate & Undergraduate.

Job postings are shared with students.
OUR ALUMNI AND STUDENTS BRING GLOBAL PERSPECTIVES TO PURDUE INDUSTRIAL ENGINEERING

Since it's founding in 1955, the Purdue School of Industrial Engineering has played a critical role in the history of the industrial engineering profession. From fostering the development of computer simulation methodology to intelligent manufacturing, we have been continuously revolutionizing Industrial Engineering.

At Purdue, we help the field of Industrial Engineering take Giant Leaps as we “Rethink IE” in cognition and decision making, next-generation products and services, computational IE, complex systems and networks, & much more.

HOME COUNTRIES OF PURDUE IE STUDENTS

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