RETHINKING
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

PURDUE UNIVERSITY
School of Industrial Engineering
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
UNDERGRADUATE CAPSTONE

PROJECT EXAMPLES:  
bit.ly/IEPastProjects

SUBMIT PROJECTS

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

bit.ly/PurdueIECorpProjects

PROGRAM SUPPORTERS - $5,000
Advertise positions for interns, co-ops & full-time opportunities
Participate in IE career fairs
Sponsor one undergraduate capstone
Host an exclusive company day
  - Information kiosk
  - Presentations
  - Student lunch or dinner

PROGRAM SUPPORTERS - $15,000+
All above benefits
Additional THREE undergraduate capstones
Option to present to classes, meet faculty

MENTOR STUDENTS

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

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.
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

PROJECT PARTNERS NEEDED

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

PURDUE UNIVERSITY
School of Industrial Engineering
## Sponsor PMP-MSIE Program

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

**WHAT YOU SUPPORT:**
- 28 Weeks
- 2-4 Students
- 1 Professor
- 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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**Diagram:**
- Project Proposal & Kick-Off
- Status Update
- Final Term Report
  - Define Project & Scope of Work
  - Professional Development & Consulting
  - Professional Coaching Sessions for Students

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**Purdue University**
School of Industrial Engineering
ONLINE MASTERS

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
EXECUTIVE EDUCATION

RETHINK. RETOOL. RESOLVE.

PERSONAL ATTENTION. UNIQUE PROGRAMMING. TRANSFORMATIVE EDUCATION.

EMPOWER DECISION MAKERS

Your team may need a foundational understanding of cutting edge knowledge to make the best decisions for your company.

OUR EXPERTS ARE READY

Our faculty are thought leaders in their area & are trained educators. Here are just a few examples of our faculty.

ROSHI NATEGHI
- Data-Driven Decision Making
- Energy Management
- Risk Analysis

ANDREW LIU
- Smart Grid, & Industrial IoT
- Strategic Decision Making
- Game Theory

RAMSES MARTINEZ
- New Materials
- Novel & custom fabrication
- Cyber-Physical Systems

BRANDON PITTS
- Human Factors
- Autonomous Systems
- Technology for Aging Populations

LET US MEET THE NEED

We can co-design a program to fit your needs & circumstances to best serve your unique organizational challenges.

PURDUE UNIVERSITY
School of Industrial Engineering
OUR ALUMNI AND STUDENTS BRING GLOBAL PERSPECTIVES TO PURDUE INDUSTRIAL ENGINEERING

Since its 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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