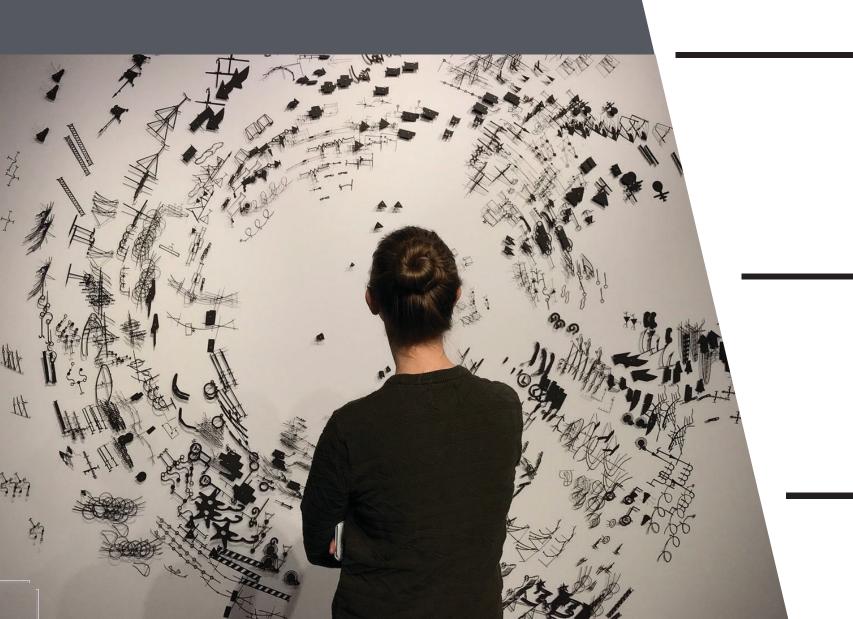
ELEVATE



School of Industrial Engineering

CORPORATE PARTNERSHIPS



ELEVATE CORPORATE PARTNERSHIPS

PURDUE UNIVERSITY SCHOOL OF INDUSTRIAL ENGINEERING



AARON RAMSEY

Director of Industry Relations



BEN Fong, PhD, PE

Associate Professor of Practice & Director, PMP -MSIE



JULIA SIBLEY

Research & Strategic Lead

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

RISK MANAGEMENT

Predictive Algorithms

Market Design

Multi-Objective Decision Analysis

Risk Perception & Response

PRODUCTION SYSTEMS

Inventory Control

Lean Manufacturing

Facilities Design & Material Flow



HUMAN FACTORS

Work Design & Measurement

Cognitive Task Analysis

Team & Group Dynamics



SYSTEMS MANAGEMENT

Engineering Economics & Finance
Project Management
Organizational Design





School of Industrial Engineering



OPERATIONS RESEARCH

Optimization Modeling
Stochastic Modeling & Queueing Analyses
Simulation Modeling



MANUFACTURING

Product Design

Manufacturing Processes & Materials

Quality & Reliability Analysis



Nano- / Bio-Materials

Additive Manufacturing

Smart Wearable & Implantable Devices

Flexible / Programmable Materials



INFORMATION SYSTEMS

Cyber Infrastructure

Machine Learning & AI

Enterprise Resource Planning

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

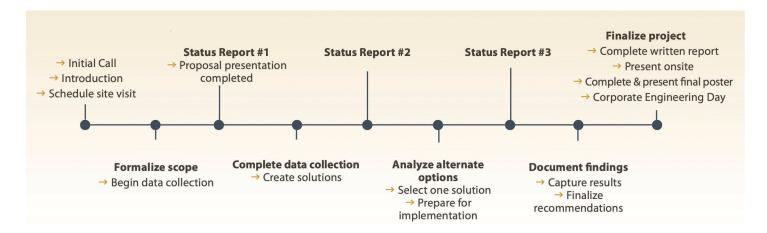
Sharing Economy

IE SENIOR CAPSTONE PROJECTS



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:



POINT OF CONTACT

2-4 HOURS PER WEEK

TECHNICAL PROJECT

WHAT YOU SUPPORT: LO WEEKS

AVERAGE STUDENT HOURS 3-4 STUDENTS

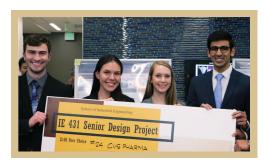
POSTER PRESENTATION

S+1 STATUS REPORTS & WRITTEN FINAL

ON SITE PRESENTATION

MULTIPLE
ON SITE
VISITS FOR
DATA
ANALYSIS

SUPPORT STUDENT DEVELOPMENT



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 \$25,0000 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 industrysponsored 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:



PROJECT STAKEHOLDER

WHAT YOU SUPPORT:

28 WEEKS 2-4 STUDENTS PROFESSOR

PROPOSAL + STATUS UPDATE

AVERAGE STUDENT HOURS

WEEKLY VIRTUAL MEETING MULTIPLE SITE VISITS

FINAL TERM REPORT TO COMPANY

SUPPORT COVERS

Team Traveling Expenses

Project Hours

Faculty Coaching

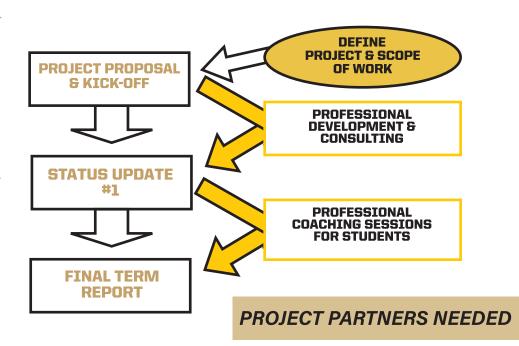
PMP Scholarship

LONG-TERM BENEFITS

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

TWO CYCLES

Late August - Early December Mid-January - Early May



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





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.



PURDUE INDUSTRIAL ENGINEERS AROUND THE WORLD

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.



School of Industrial Engineering

HOME COUNTRIES OF PURDUE IE STUDENTS



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