About the School of Industrial Engineering

Since its founding in 1955, Purdue's School of Industrial Engineering (IE) has played a critical role in the history of the industrial engineering profession. The trailblazing work of Lillian Gilbreth in human factors, Alan Pritsker in discrete event simulations, Moshe Barash in manufacturing processes, W. Dale Compton in healthcare systems, and James Solberg in intelligent manufacturing systems, among many others, set the foundations for Purdue IE's international preeminence.

Today, Purdue IE is actively finding ways to have a continuous transformative impact on the discipline and society through its revolutionary “ReThink IE” initiative. ReThink IE builds on our legacy of depth and breadth in the traditional IE areas of operations research, manufacturing, systems, and human factors, and redefines them for the 21st century. Our frontier areas include Next Generation Products and Services, Complex Systems and Networks, Cognition and Decision Making, and Computational IE. Faculty in the School serve in key leadership or core roles in major campus-wide centers and institutes, such as the Purdue Systems Collaboratory, USAID funded LASER PULSE, NASA funded Indiana Space Grant Consortium, and the Regenstrief Center for Healthcare Engineering (RCHE).

Dynamic Faculty

Noted for their contributions in Next Generation Products & Services (nanostructured materials, laser-based 3-D manufacturing, flexible electronics, wearable sensors, soft/medical/collaborative robotics, rehabilitation engineering, sustainable urban systems), Complex Systems and Networks (complex system metrics, networked systems design, policy analysis, risk and resilient systems, global healthcare delivery, environmental impact of emerging technologies), Cognition and Decision Making (autonomy, human-automation interaction, team/group cognition, computational neuroscience, digital human), to Computational IE (distributed optimization, reinforcement learning, algorithmic game theory, automated inferencing, stochastic optimization, simulation optimization), and much more.

- 10 NSF CAREER, 3 DoD Young Investigator Program awardees among current faculty
- 5 SME Outstanding Young Manufacturing Engineering Award recipients, 3 IISE fellows, 2 Fulbright scholars, 2 NAE Frontiers of Engineering alumni, 2 Jefferson Science Fellows among current faculty, 1 IEEE fellow
- 10 National Academy of Engineering members from Purdue IE community

Expanding Research and Innovation

• One of the highest research expenditures per faculty in FY20 among all Purdue Engineering schools.
• Birthplace of discrete event simulation, intelligent manufacturing, and robo-nurse.
• Current research awards exceeding $1M each with IE faculty as PIs/co-PIs: Long-term assistance and services for research (LASER, USAID); Cognitive Autonomy for Human CPS: Turning Novices into Experts (NSF); Designing Future Reality today: Physical-reality simulation platform for future factories (NSF); Identifying Sustainability Solutions through Global-Local-Global Analysis of a Coupled Water-Agriculture-Bioenergy System (NSF); Fingers See Things Differently: A Robotic Explosive Ordnance Disposal based on Augmented Tactile Imaging (NSF); A Fundamental Theory for Dexterous Surgical Skills Transfer to Medical Robots (DoD).
About the School of Industrial Engineering

OUTSTANDING, HIGHLY SOUGHT-AFTER STUDENTS AND DEDICATED STAFF

• Nearly 10% of our 10,000+ alumni reach the C-suite, and their ongoing engagement leads to unique networking opportunities for the Purdue IE community.

• More than 250 top domestic and international companies recruit Purdue IE graduates annually, with an undergraduate job placement rate of 95.5%.

• Our Senior Design capstone course comprises 60+ projects with 35+ companies annually, providing “real-world” experiences before graduation.

• Nearly half of our dedicated staff have been recognized for their service at the College and University levels.

DISTINGUISHED ALUMNI

Charles B. Armstrong
former President, Seattle Mariners

Major General Theresa Carter
(USAF Retired), Purdue Trustee

Bob Dittus
Chief Innovation Officer and Senior Vice President, Vanderbilt Health Affiliated Network, Senior Associate Dean for Population Health Sciences, Albert and Bernard Werthan Professor of Medicine, Vanderbilt University Medical Center

Juan Ernesto de Bedout
former group President of Latin American Operations, Kimberly-Clark Corporation

John Edwardson
former President, United Airlines, former EVP/CFO, Northwest Airlines, former CEO, CDW Corporation

Susan J. Ellsperman
President, Ivy Tech Community College, and former Lieutenant Governor, State of Indiana

Michael Eskew
former Chairman and CEO, UPS (NAE member)

Jorge Haddock
President, University of Puerto Rico

Keith Krach
former Under Secretary of State, former CEO of DocuSign, Co-founder Ariba Inc., VP of General Motors

Joe Mize
former Vice President of Research at HKUST, Professor Emeritus, Oklahoma State University (NAE member)

Gerry Nadler
former Professor and IE Department Chair, University of Wisconsin and University of Southern California, former President, The Center for Breakthrough Thinking, Inc. (NAE member)

Carlos Odio
Founder and President, TicoFruit S. A.

Dennis Pegden
Founder and CEO of Simio LLC

Patti Poppe
CEO, Pacifi c Gas and Electric (PG & E)

Ed Schreck
former CIO, Accenture

Jim Tompkins
President, Founder and Chairman, Tompkins International

Ravi Venkatesan
UNICEF Special Representative for Young People, former Chairman of Microsoft India

Richard Wysk
Distinguished professor, NC State University, former Professor, Pennsylvania State University
SEEKING A
DYNAMIC AND
INNOVATIVE
LEADER

For The James J. Solberg Head and Professor of the School of Industrial Engineering

The School of Industrial Engineering at Purdue University is seeking an accomplished, dynamic, and innovative leader to serve as the James J. Solberg Head and Professor of the School of Industrial Engineering. The School of Industrial Engineering is consistently ranked as one of the top industrial engineering programs in the nation and recognized as an international pioneer and leader in the quality of its educational and research programs. The School currently has more than 750 undergraduate students, 200 graduate students, and 30 faculty members. Purdue Engineering takes pride in being at the pinnacle of excellence at scale. The successful candidate must possess the vision and qualities to further advance the School’s impact, recognition, national and international standings through a strong commitment to excel in discovery, learning, and engagement. The Head we seek will lead the School in continuing to define the evolution of IE and IE Frontier Areas, including Next Generation Products/Services, Complex Systems and Networks, Cognition and Decision Making, and Information Engineering. Additional information about the School of IE may be found at https://engineering.purdue.edu/IE.

Candidates must demonstrate a clear understanding of the current needs and future direction of the rapidly evolving industrial engineering profession; possess a commitment to diversity and collaboration; be skilled in administration and communication, student relations, and mentoring; and be talented at developing strong stakeholder relations, particularly with other units within the College of Engineering, alumni, and industry partners. Successful candidates must hold a PhD in industrial engineering or related discipline and must meet the qualification of a full professor in Industrial Engineering with tenure, based on an outstanding record of independent and impactful research, graduate and undergraduate teaching, and professional service at national and international levels.

Submit the following documents to:

purdue.sie@edexsearch.com

Please include:

(1) a curriculum vitae
(2) a bullet-point summary of key accomplishments in any leadership roles held
(3) a personal statement, not to exceed three pages, addressing the applicant’s vision, leadership and mentoring philosophy, experience, and qualifications
(4) names and contact information for at least four references, who will not be called without express permission.

For information/questions regarding the application process:

Contact the Office of Academic Affairs, College of Engineering, at coeacademicaffairs@purdue.edu. Review of applications will begin on June 1, 2021, and will continue until the position is filled. A background check is required for employment in this position.

The Search Committee is chaired by Prof. Rao Govindaraju, Bowen Engineering Head of the School of Civil Engineering. Purdue University has retained Education Executives to assist with this search. Confidential inquiries and nominations should be sent via email to: purdue.sie@edexsearch.com.

Purdue is an ADVANCE institution. Purdue University’s School of Industrial Engineering is committed to advancing diversity in all areas of faculty effort, including discovery, instruction, and engagement. Candidates should address at least one of these areas in a separate Diversity and Inclusion Statement, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion.

Purdue’s main campus is located in West Lafayette, Indiana, a rapidly-growing, welcoming, and diverse community with a wide variety of cultural activities, events, and industries. Purdue and the College of Engineering have a Concierge Program that provides dual career assistance and relocation services.

Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.