## EXPERIENCE IS KNOWLEDGE.



# **PROFESSIONAL PRACTICE** 2016-17 ANNUAL REPORT

# FROM THE DIRECTOR



Greetings from the Office of Professional Practice (OPP)!

Thank you for your interest and support for Purdue's Professional Practice Programs. OPP continues to provide exemplary programs and service to the **1,500+ students** it serves across the 3- and 5-session

Co-Op, Master's Co-Op, Global Engineering Alliance for Research and Education (GEARE), and Internship programs. And 2016-17 proved to be another exciting year for our programs, processes and staff.

The OPP mission is more relevant than ever. The Gallup-Purdue Index found that **71 percent of recent** graduates who participated in academically relevant work were employed full time at graduation. The study also found that those same graduates were almost twice as likely to be engaged in the workplace. OPP programs directly influence those outcomes!

This year, OPP took over the **Interns for Indiana program, which is an initiative aimed at keeping graduates in the state of Indiana,** and in 2017-18, will also take over the Global Engineering Studies Minor. Additionally, the Parallel Co-Op program is now fully online.

I would also like to point out that we had some personnel changes this year:

- Chad Barker left OPP to join Purdue Marketing and Media. We wish him all the best in his new position. After conducting a thorough search, we are excited to announce that we hired Haley Yeoman as the new Communications and Marketing Specialist. Haley started with OPP on July 31.
- Francisco Montalvo joined OPP as Global Program Specialist.
- Kavitha Ramane was hired to help with the assessment of global competency of GEARE students.

Thank you for your interest in the Office of Professional Practice. I hope you enjoy this annual report and will share in our success.

Dr. Eckhard A. Groll Reilly Professor of Mechanical Engineering Director, Office of Professional Practice

# EXPERIENCE GRANTED.

The mission of the Office of Professional Practice shall be to facilitate the experiential education and professional practice of Purdue University students within the academic environment of the institution and its global partners; to participate in academic research within the field of professional practice; and to assist the academic units with enhanced employer engagement. The Office of Professional Practice facilitates work-integrated learning at Purdue. Presently, OPP administers the following programs, which require registration:

- Cooperative Education (Three-Session, Five-Session and Master's)
- Global Engineering Alliance for Research and Education (GEARE)
- Domestic Internships
- Global Internships
- Domestic Research Experiences
- Global Research Experiences
- Study Abroad

# CONTENTS



Cover: GEARE students in Switzerland

## OUR PROGRAMS

## **COOPERATIVE EDUCATION**

Cooperative Education (Co-Op) programs offer numerous benefits for students looking to gain realworld experience before they graduate. Participants choose between three-session or five-session models and will gain approximately 12-20 months of professional experience while alternating between semesters on campus taking classes and working with their professional practice employer. Unlike some Co-Op programs at other institutions, all three or five work sessions are spent with the same employer, which allows for a strong relationship to build between the student and employer. As a result, students are able to work on longer, more important projects and are able to take on increasing responsible and diverse roles in their work sessions. This also allows students to experience multiple areas of a company's operation. Students earn a significant and competitive salary while working. Many Co-Op students are offered interviews or full-time positions with their host employer upon graduation.

The program is a transcript-recorded experience and provides an academic certificate upon completion.

## GLOBAL ENGINEERING ALLIANCE FOR RESEARCH AND EDUCATION (GEARE)

GEARE is Purdue's premiere global professional training program. The program is currently available to students from all engineering disciplines and computer science. GEARE students enhance their global competency by completing language study, one semester of study abroad, a minimum of one domestic internship, a minimum of one global internship, three one-semester cultural training seminars, and a minimum of one global design team project.

The Office of Professional Practice develops partnerships with world-renowned university partners and global industry partners interested in developing future employees with top of the line technical and global skills. The Office of Professional Practice has strong partnerships with universities and global employers operating in the U.S., China, Colombia, France, Germany, Mexico, Singapore, and Spain. New programs are being established in Brazil, Ecuador, India, Italy, Japan, Sweden and the UK.





### **INTERNSHIP PROGRAMS**

Internships are an excellent alternative to Co-Op programs for students looking to work for multiple employers. These programs offer more flexibility than Co-Op programs but with shorter work sessions. Unlike Co-Op sessions, internships are typically only one term. Internships provide crucial professional experience that helps students stand out from their peers, thus more likely to find a job after graduation. The Office of Professional Practice highly recommends all students obtain professional experience.

Internships that require registration for academic or immigration reasons are administered by the Office of Professional Practice.

### **GLOBAL RESEARCH**

Global research experiences provided by the Office of Professional Practice allow students to work on innovative projects at some of the world's leading research institutions. Students will gain valuable practical experience and enhance their global competencies through work in an international setting. Students will earn credit transferable to their Purdue degrees. Currently, OPP facilitates these experiences with:

- Tsinghua University (Beijing, China)
- Leibniz University Hannover (Hannover, Germany)
- University of Stuttgart (Stuttgart, Germany)
  Technical University of Provincehungia
- Technical University of Braunschweig (Braunschweig, Germany)
- Ruhr University of Bochum (Bochum, Germany)

### **STUDY ABROAD**

Professional Practice Study Abroad programs offer students an opportunity to gain an understanding of their profession in another country. The programs target first-year students. They provide a brief taste of what it would be like to work in another country and encourage students to pursue a longer-term global professional experience, such as GEARE, later in their academic career.

In 2014, the Office of Professional Practice administered its first short-term study abroad program during the Maymester titled Experiencing German Engineering. The program introduces students to cultural differences in engineering practice with visits to German university laboratories, research facilities and companies. Students engage with German engineering students, researchers and engineers working in industry. The first program included 10 students. It has been offered every year since, with growing popularity. In 2017, the Office of Professional Practice launched a similar Maymester course in France titled Experiencing French Engineering.

In 2018, the Office of Professional Practice plans to enhance the Experiencing German Engineering program through a partnership with the Siemens Technical Academy in Berlin. The partnership will allow students to gain real-world engineering experience via a oneweek multidisciplinary project with peer students at the technical academy.

# NEW INITIATIVES

## **PARALLEL CO-OP**

While the Office of Professional Practice has facilitated Cooperative Education at Purdue since 1954, we continue to strive to make advancements in the field of Professional Practice, in addition to creating new, innovative programming to better serve all Purdue students — traditional and nontraditional. We are proud to announce the further development of the Parallel Cooperative Education Program. In this unprecedented work-integrated learning model, Computer Science, Engineering, Management and Polytechnic students will work part-time (up to 29 hours per week) during the academic year at local operations and full-time during summer terms at any location for a Co-Op employer. During the academic year, these students will carry half-time student status and a reduced academic load in order to facilitate their work obligations. There are two plans of study for this program, which are shown below.

Parallel Co-Op provides an opportunity for students to avail themselves of academically relevant work experience by providing an income stream that more closely matches their flow of expenses. Furthermore, this answers a demand from students and industry for learning opportunities that allow for on-the-job training while progressing toward degree completion.

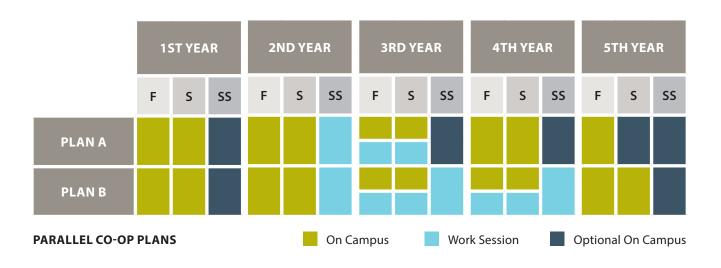
The program officially launched in Spring 2017.

### **INTERNS FOR INDIANA**

The Interns for Indiana program connects entrepreneurially minded Purdue University students to Indiana startup and second-stage companies in order to promote economic development, enhance student success and provide professional opportunities to high-performing students with the goal of keeping them in Indiana after graduation. Through a mutual selection process, companies are matched with students from a wide variety of science, technology, engineering and mathematics (STEM) and non-STEM disciplines.

To be eligible, students from all majors must have a minimum 2.8 GPA, and companies must be privately held, for-profit organizations in Indiana operating as a startup or second-stage company. The company must also have work assignments that are challenging to the student and related to his or her interests, education and experience. Eligible companies generally have up to 99 employees and \$50 million in annual revenues (or working capital in place from investors).

The Interns for Indiana program is designed to provide companies with STEM talent without STEM cost. Companies hire students near minimum wage (approximately \$8/hour), and Purdue will provide additional support to students in the form of a scholarship, using Purdue funds. Total compensation to the student is competitive with other Purduesponsored, experiential-learning programs.



### **GLOBAL ENGINEERING STUDIES MINOR**

Starting in the 2017-18 academic year, the Office of Professional Practice (OPP) will take over administration of the Global Engineering Studies Minor (GESM), working with the Office of Global Engineering Programs (GEP). The GESM minor requires students to complete 3-4 credits of Global Engineering coursework, complete a minimum of two significant engineering-related global experiences, and obtain a minimum of 12 credits in language study or cultural knowledge coursework. GEARE students comprise the majority of students who have been awarded the minor. OPP was selected as the administrating unit due to its success in coordinating the GEARE program and for its role in developing and delivering Global Engineering coursework. GEP will be facilitating the GESM for non-GEARE students.

The Office of Professional Practice aims to increase enrollment and student completion of the minor. A student outreach strategy will be put in place along with a new system to provide better tracking and guidance for students pursuing the minor. The Office of Professional Practice will continue to develop and support students participating in significant global engineering experiences such as internship abroad, research abroad, and other professional practice experiences abroad. In addition, OPP will increase global engineering course offerings by hiring new instructors with global engineering experience.













# 2016 CO-OP HALL OF FAME

Launched in 2010, the Cooperative Education Hall of Fame is an annual celebration honoring those who have made significant contributions to Purdue's Co-Op program or those alumni who have achieved excellence in their careers after participating in cooperative education during their time at Purdue. In essence, this event provides a lens through which current and future students can view the power of Co-Op as a means of drawing the map for their future success. Previous inductees have included executives, politicians, lawyers, high-ranking technical experts and Purdue faculty with a passion for experiential learning. The 2016 class of inductees, shown below and featured on the following page, was no exception to this excellent pedigree.

More than 200 people attended the induction ceremony, held September 23, 2016, in the Purdue Memorial Union North Ballroom. The event featured remarks from Director of OPP Eckhard Groll, an update from Professional Practice Ambassadors President Peter Redman, a keynote address from Chief Corporate and Global Partnerships Officer Dan Hirleman, and a formal induction proceeding.



# HALL OF FAME INDUCTEES













**LINDA DAVIS** has served as a chemical engineer with Air Products and Chemicals for over 20 years, and due to her excellent performance, she was promoted to lead process engineer, where she remained until 2000. She then worked in various leadership roles until 2007, when she joined Purdue University as the industrial education director for the School of Chemical Engineering. At Purdue, she has administered the ChE Co-Op program, managed the Fundamentals Lab, chaired the ChE safety committee, and enrolled more than 20 percent of all chemical engineering students into a Co-Op plan of study.

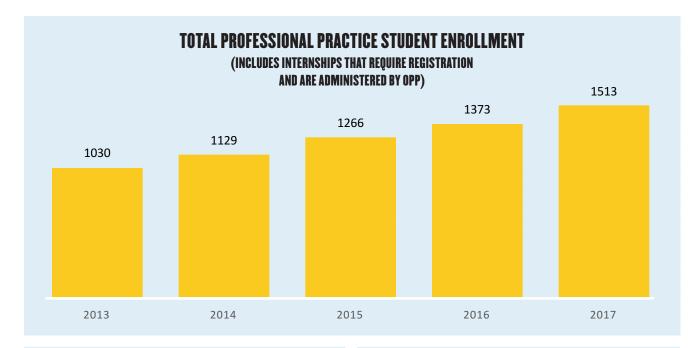
**C. DOUGLAS EBERSOLE** received his MS in aerospace engineering after earning his BSAAE from Purdue. As a Co-Op alum, he completed his Co-Op experience at the Wright-Patterson Air Force Base in Ohio. In 2000, he was selected as the Air Force candidate to the Sloan Fellows Program at the Massachusetts Institute of Technology. He was recognized as an outstanding aerospace engineer from the Purdue School of Aeronautics and Astronautics in 2014, and a Distinguished Engineering Alumni by the College of Engineering in 2016. Currently, he is a member of the senior executive service and executive director of the Air Force Research Laboratory, Wright-Patterson Air Force Base.

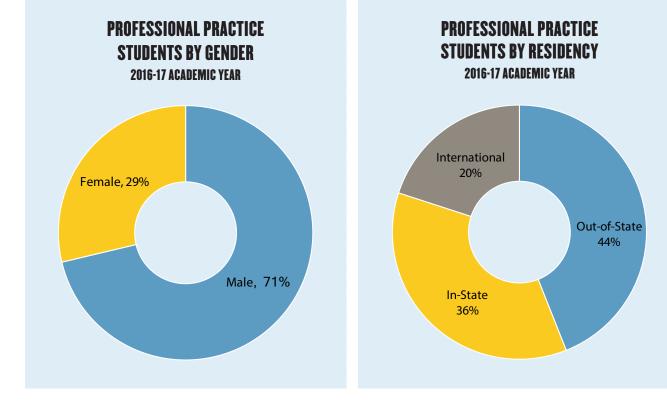
**BRADLEY MAGGART** began his career at Delphi Delco Electronic Systems in 1980 as a Co-Op student in Kokomo, Indiana. Upon graduating with a BSMSE from Purdue in 1984, he held various assignments of increasing responsibility in semiconductor engineering, operations and finance. Consequent to obtaining his MS in manufacturing management from Kettering University in 1993, Maggart was promoted to European operations manager. He joined Hitachi Automotive Systems in 2011, and he has since become president of Hitachi Automotive Systems Asia and executive officer of Hitachi Automotive Systems Ltd. in Tokyo, Japan. As president, he is responsible for business operations in Southeast Asia and India and has launched new plant operations in India, Indonesia and Thailand.

**JERRY MATTHEWS** served as the director of the Office for Industrial Experience at the Purdue School of Mechanical Engineering from 1997-2016 after a storied career in the mining industry. He worked for Shell Oil Company, Cyprus Amax, and his career culminated as the general manager to Chandler, Indiana, and Brazil, Indiana mines. Here, Jerry successfully managed a facility with sales in excess of \$100 million and an employee population of 600. Matthews guided thousands of GEARE students and made innumerable contributions to the Mechanical Engineering Co-Op program, which regularly has the largest percentage and number of participants in all disciplines offering Co-Op.

**LAWRENCE OGBORN** became the ECE Co-Op coordinator in September 1987, when he also became the ECE undergraduate coordinator. Before he was the director of the ECE Laboratory Programs (1984-2002), he served as the director of the Purdue University Electric and Hybrid Systems Development Laboratory from 1987-1994. His dedication to student learning, both experiential and curricular, earned him the Beta Chapter of HKN (Eta Kappa Nu) Outstanding Teacher Award on three separate occasions (1970, 1972, 1980).

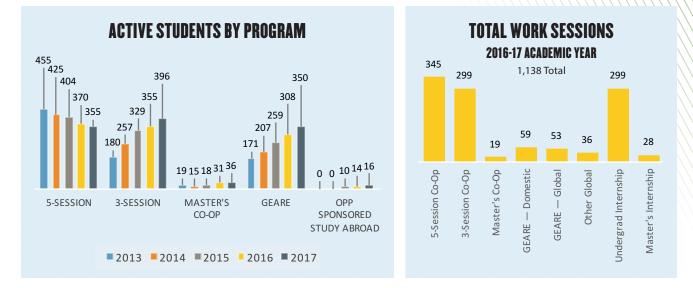
## FACTS AND FIGURES



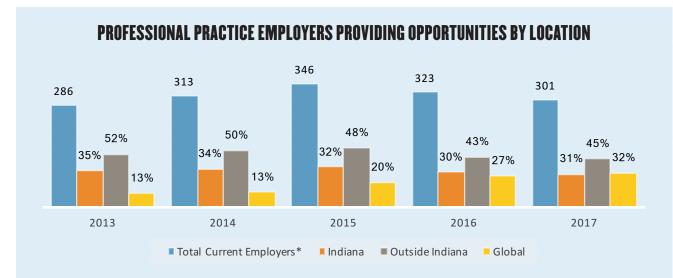


The Office of Professional Practice is proud that its total student enrollment continues to increase year over year — that is, the net impact on students continues to multiply. In addition, OPP programs contain a diverse group of students, with 29 percent of program participants identifying as female, which exceeds the College of Engineering undergraduate (92 percent of the total OPP constituency) female population of 24 percent.

# **STUDENT AND EMPLOYER STATISTICS**



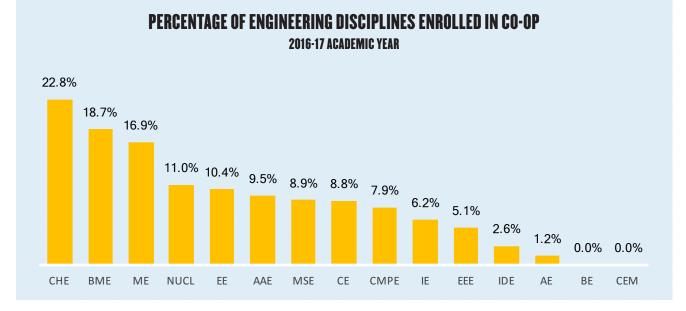
2016-17 saw a continued drop in Five-Session Co-Op enrollment. This is unsurprising, given the trend over the past five years. This is vindicated by yet another increase in Three-Session Co-Op participation. Students and employers alike indicate that the increased flexibility associated with the Three-Session program is particularly appealing. The GEARE program continues to see massive interest, which is also reflected in employer metrics. Study Abroad was launched in 2014.

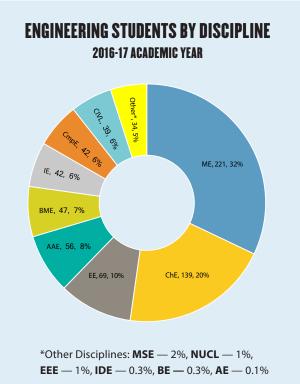


\* Total Current Employers = Number of unique employers who recruited and/or hired wthin last 5 years. Some employers provide opportunities in multiple locations, thus percentages shown may exceed 100.

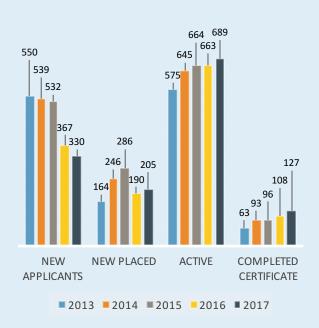
Dedicated industry partners are vital to the continuation and growth of the Professional Practice Programs. We continue to see a growth in global employer participation, which directly correlates to the increase of GEARE student participants. Part of serving the OPP employers and students participating in any program requires growth within the office as well. We have adjusted our reporting structure to reflect each employer as one unit no matter how many divisions or locations. This process will more accurately reflect the activity within our office and keep us consistent with other departments across campus.

## **ENGINEERING PARTICIPATION**



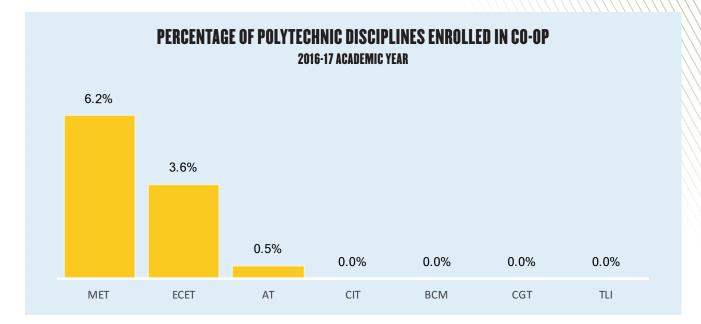


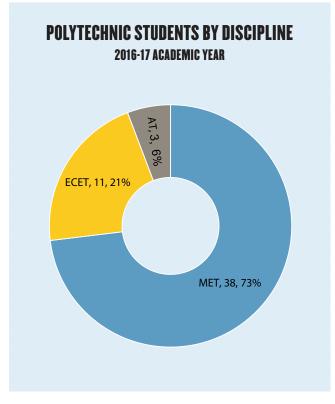
### **ENGINEERING STUDENTS BY STATUS**



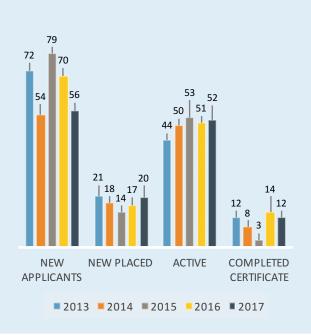
College of Engineering undergraduates make up 92 percent of the OPP student population. Therefore, it is particularly interesting to view trends in engineering student enrollment. Traditionally, Chemical Engineering and Mechanical Engineering have been the most popular Co-Op disciplines, and 2016-17 is no different. While total applicants to Three-Session and Five-Session Co-Op are down, the 2016-17 hire rate of nearly 62 percent is an undeniable point of pride.

## POLYTECHNIC PARTICIPATION



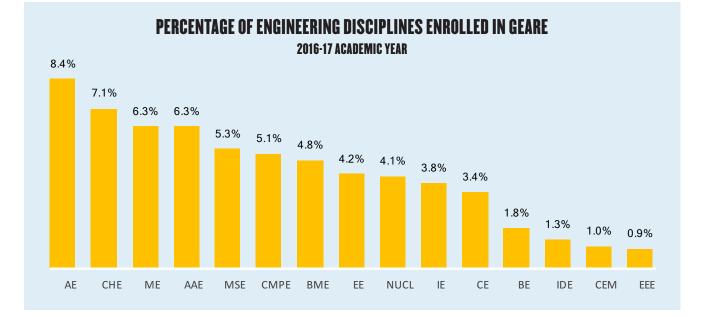


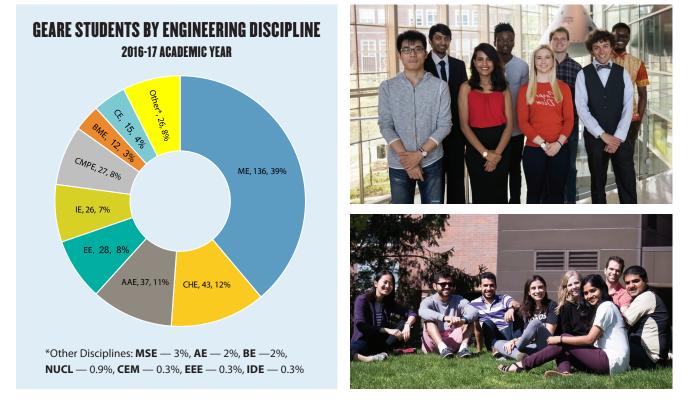
POLYTECHNIC STUDENTS BY STATUS



The Purdue Polytechnic Institute (formerly the College of Technology) contains OPP's second-largest constituency. As part of its transformation, the Polytechnic Institute places great emphasis on professional experience prior to graduation. Therefore, we expect to see an increase in participation from Polytechnic students in coming years.

## **GEARE PARTICIPATION**





The Global Engineering Alliance for Research and Education (GEARE) program has quickly become one of OPP's most popular programs. Academic year 2016-17 was another period of increasing interest, with a 14 percent increase in active GEARE students. Participation in this program is likely influenced by scholarship incentives from the Office of Study Abroad, which help to defray the cost of travel.

# **OPP CORPORATE STEWARDSHIP**

Purdue's Professional Practice programs continue to grow in both size and quality. The Office of Professional Practice and its faculty coordinators in the various colleges and schools facilitate challenging Co-Op, GEARE, and internship (both domestic and international) opportunities for over 1,500 students on the West Lafayette campus.

The Co-Op program, our flagship program, has 751 students currently participating in various stages of the program. We facilitate both the three-session and fivesession Co-Op programs, which provide students with valuable hands-on experience in their degree fields while simultaneously gaining a world-class education. We have seen significant growth in the three-session Co-Op program, due mostly to the program's added flexibility.

Additionally, the popularity of our very unique Global Engineering Alliance for Research and Education (GEARE) program has really taken off with more than 350 students currently enrolled, up from about 100 students just five years ago. More importantly, this group of high achievers maintains an overall grade point average of 3.5 on Purdue's 4.0 scale. We're also extremely proud of the fact that 34 percent of our GEARE students are female and 32 percent are other than Caucasian American ethnicity.

Our office is pleased to facilitate internships as well — at U.S. locations and abroad — for students who require

academic registration while away from campus. Many of our Co-Op and GEARE employers enjoy the added flexibility that internships offer to complement their long-term Co-Op needs.

We are very grateful for the corporate gifts received for the 2016-17 academic year. Without corporate support, we could not deliver the innovative, high-quality programming that students have come to associate with Purdue's Office of Professional Practice. While we are appreciative of your generosity, we understand that your support is truly an investment in our programs and those who participate in them; we strive to make a positive return on your investment — and we are. In 2014, Purdue, in concert with Gallup and the Lumina Foundation, launched the Gallup-Purdue Index, a national poll measuring the outcomes of higher education. The study found that 71 percent of graduates who participated in academically relevant work experience were employed full-time at graduation, while also discovering that those same graduates were twice as likely to be engaged in the workplace. Our programs directly influence those outcomes!

Thank you, again, for your support of the Office of Professional Practice. We assure you that we will responsibly use your contribution to enable the achievement of tomorrow's leaders.





# **PROFESSIONAL PRACTICE PARTNERS PROGRAM**

The Office of Professional Practice aids in producing graduates who are job ready, career ready, and world ready. Therefore, our experience-driven graduates are especially lucrative hires in both the public and private sector. Are you interested in filling your talent pipeline with these excellent candidates? Become a Professional Practice Partner today!

SPONSORSHIP BENEFITS	BLACK	GOLD	PLATINUM
Advertising on LCD screens located in Potter Engineering Center	х	х	Х
Logo placement on Office of Professional Practice website	Х	Х	Х
Invitations to participate in Professional Practice and GEARE Industrial Advisory Committee Meetings and Employer Seminars	Х	Х	Х
Employer-sponsored seminar or workshop to be coordinated on campus (one per academic year), with OPP event management	х	Х	х
Preferred placement at events sponsored by the Office of Professional Practice	х	Х	Х
Registration for two free tables to be utilized during Professional Practice Career Fair and Interview Days	Х	х	х
Annual networking event with Co-Op students	х	Х	Х
Annual networking event with GEARE students	Х	Х	Х
Logo placement at any conferences and events with Office of Professional Practice representation		х	х
Employer-sponsored seminar or workshop to be coordinated on campus or via video conference at any time of the year		Х	х
Two additional free tables, beyond Black-level benefit, to be utilized during Professional Practice Career Fair and Interview Days		Х	x
Access to resume booklets for graduating Co-Op and GEARE students		Х	х
Registration for unlimited free tables during Professional Practice Career Fair and Interview Days			х
Free access to campus interview space at any time			Х
Annual exclusive recruitment event focused on graduating Co-Op and GEARE students			х
Logo placement on all OPP marketing materials			Х
GIVING REQUIREMENT	\$2,500	\$5,000	\$10,000

# **CORPORATE SPONSORS**

### GOLD

Daimler is one of the biggest producers of premium cars and the world's biggest manufacturer

of commercial vehicles with a global reach. They provide financing, leasing, fleet management, insurance and innovative mobility services.

### **Consumers Energy**

Consumers Energy provides electric service to 1.8 million customers and natural gas service to 1.7 million

customers in Michigan's Lower Peninsula. They serve more than 6 million Michigan residents.



**PRODUCTS** With approximately 10,000 employees and operations in 50 With approximately 16,000

countries, Air Products serves customers across a wide range of industries, from food and beverage to medical, energy and transportation.



From electric cars to heavy-duty fullsize trucks, General Motors provides a complete range of vehicles that meets the needs and expectations

of drivers on a truly global scale. There are 10 distinctive automotive brands under the General Motors corporate umbrella: Chevrolet, Buick, GMC, Cadillac, Opel, Vauxhall, Holden, Baojun, Wuling, and Jiefang.



Ed Miniat produces culinary-quality meats for nationally recognized food brands and restaurant chains.



CEC Controls specializes in the design, build and startup of industrial and process controls

systems. CEC Controls also provides maintenancemonitoring systems fully equipped with fault alarms and production report generation capabilities.



Cummins Inc. designs, manufactures, sells and services diesel and alternative fuel engines from 2.8 to 95 liters, diesel and

alternative-fueled electrical generator sets from 2.5 to 3,500 kW, as well as related components and technology.



Sabic, headquartered in Riyadh, Saudi Arabia, is a global leader in diversified chemicals. It manufactures on a global scale in the Americas, Europe, Middle East and Asia Pacific, making distinctly different kinds of products - chemicals, commodity and high performance plastics, agri-nutrients, and metals.

### BLACK

3 Kimberly-Clark Kimberly-Clark has some of the most recognized brands in the

world. Their brands hold the No. 1 or No. 2 share position in 80 countries, and have five billion-dollar brands: Huggies, Scott, Kleenex, Cottonelle and Kotex.



John Deere is best known for quality agricultural and turf equipment. They're the world's leading

manufacturer of farm equipment and take the lead worldwide in building forestry equipment. They are also a major force in construction equipment.

**EASTMAN** Eastman is a global specialty chemical company that produces

a broad range of advanced materials, additives and functional products, specialty chemicals, and fibers that are found in products people use every day.



GE Appliances designs and builds the world's best appliances. From

design to production to service, their goal is to help people improve their lives at home.



Molex (a subsidiary of Koch Industries) is a globally recognized provider of electronic solutions in a wide range of industries, including

data communications, consumer electronics, industrial, automotive, commercial vehicle and medical.

### **OTHER PARTNERS**

ExconMobil Exxon Mobil operates in most of the world's countries and is best known

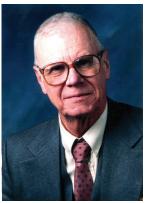
by their familiar brand names: Exxon, Esso and Mobil. They make the products that drive modern transportation, power cities, lubricate industry and provide petrochemical building blocks that lead to thousands of consumer goods.



Traylor's work is building landmark bridges, tunnels and marine structures across the nation.

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# LEONARD WOOD SCHOLARSHIPS

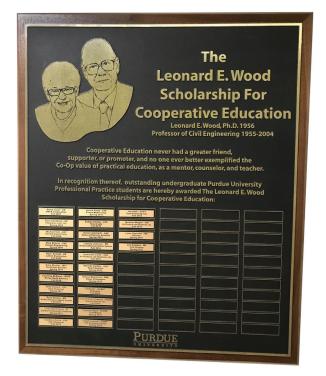


Carrying out an annual tradition, the Office of Professional Practice honored four students with Leonard E. Wood Memorial Scholarships during the 2016 Professional Practice Interview Days. Close to 100 employers attended.

Established in 2007, the scholarships honor the

memory of the late Leonard E. Wood. Wood received his PhD from Purdue University in 1956 and subsequently joined the faculty as a professor of civil engineering. He then became the School of Civil Engineering Faculty Coordinator for Purdue's Cooperative Education Program in 1989, a role he continued in until his untimely death in 2004. The scholarship fund exists thanks to a generous donation from Wood's widow, Margaret, who sought to honor his dedication to the Co-Op program.

"The Leonard E. Wood Scholarship for Cooperative Education is awarded to deserving Co-Op students based on academic merit and life-changing experiences brought about by the Co-Op program," says Eckhard Groll, the Reilly Professor of Mechanical Engineering and director of Purdue's Office of Professional Practice. "Leonard truly enjoyed the interaction with his Co-Op students and saw how the program transformed Purdue students into world-class professionals."





# SCHOLARSHIP RECIPIENTS

This year, OPP experienced robust interest in the Wood Scholarships, receiving 49 applications from a wide array of talented students. The selection committee awarded four scholarships for the 2016-17 academic year, two in the fall and two in the spring semester, respectively. The 2016-17 Leonard E. Wood Scholars are:

## **FALL 2016**

- Ivan Ball ECET '17 Five-Session Co-Op, Grain Processing Corp.
- **Madeline Morgan** CHE '19 Three-Session Co-Op, Air Products and Chemicals Inc.

### **SPRING 2017**

- Luisa Corredor ME '18 Five-Session Co-Op, GE
  Power
- Leo Kullman ME '19 Five-Session Co-Op, Cook Pharmica LLC

This year's scholarship recipients each received \$500 to be used as they see fit. "I am extremely pleased with the large number and quality of applicants. Of course, this makes the selection process extremely difficult," Groll says. "The student recipients for 2016-17 are stellar examples of cooperative education students." Recipients will have their names added to the Leonard E. Wood Memorial Scholarship plaque, which hangs outside of the OPP office suite, in the A.A. Potter Engineering Center. OPP has awarded 26 Wood Scholarships since 2007. Program administrators have indicated an increase in this endowment as an additional fundraising priority during "Ever True: The Campaign for Purdue University."











## ANNUAL GIVING

The Office of Professional Practice is grateful for the support it receives from its generous alumni and friends of work-integrated learning at Purdue. Without their financial contributions, OPP could not consistently offer its innovative and highly relevant programming. Therefore, we would like to recognize the following individuals for their altruism and generosity:

Ernesto Barajas Bruce and Jane Barger Chad Barker David and Kathryn Bowers Tyler Brammeier Frederick and Mary Bried Caley Burke **Hilary Butler** Jeanne Butler Douglas and Cathy Costelle Mark Craig **Robert and Linda Davis Timothy Dickson Renee Fieldhouse** David and Rebecca Frash Mary and Douglas Gambone **Brianne Garness** Barbara Haney Philip Hoff Robert and Ann Johnson

Amanda Kamer Susan and Philip Karau **Michelle Louthan** Theresa Matthews **Douglas McKissack** Matthew Montgomery Daniel and Laura Niemeier Dennis Overly Jim and Linda Rau Peggy and Paul Reising Austin Smith Ann Stauch Kalli and Michael Stull Stephen and Lori Wanders Andrew Weintraut **Christopher Welsh** Kenneth Williams Margaret Wood **Robert Young** 













Many thanks go to Ron Haddock, Tom Malott and Bill Nelson (pictured from left to right) for their incredible support of Professional Practice programs. Their magnificent generosity has already impacted thousands of Purdue students, with many more to feel their support in the years to come!

# **OPP IMPACT FUND**



Students who participate in Professional Practice Programs pay a \$400 Professional Practice fee each work session to maintain their full-time student status. Thanks to support from President Mitch Daniels, this fee was reduced from \$1,000 to \$400, indexed to tuition (which has remained flat for the past few years).

Our goal is to grow participation in OPP programs to 1,500 students per academic year by 2018. To make our programs as accessible for students as possible, OPP and our students are starting an endowment fundraising campaign for the OPP Impact Fund. Through this fund, we will eliminate the Co-Op registration fee and finance the Office of Professional Practice independently of University resources. The OPP Impact Fund will enable us to increase the number of students we serve and generate the necessary funds to develop courses and provide resources needed for the creation of innovative student development programs and services.

OPP's programs provide Purdue students the competitive edge they need to succeed and to contribute in their professional lives. Your gift helps make these opportunities affordable for all students. Join us in support of the OPP Impact Fund!

Gifts to the OPP Impact Fund count as contributions to Ever True: The Campaign for Purdue University.



# OUR EMPLOYERS

With the following list, we acknowledge employers who have actively recruited Purdue Cooperative Education and GEARE students

### **219 Productions 3M Process Instrumentation** and Control Systems 40/86 Advisors Inc. AAR Corp. ABF Freight System Inc. Acandis **ACE Technologies LLC** Actia Corp. **Acuity Brands** ADC The Broadband Company Advance Testing Co. Inc. Advanced Computer and **Communication Systems** Inc. Advanced Micro Devices Inc. **Aearo Technologies** AEP Aerospace Corp. **Affiliated Engineers** AGCO International Air Force Research Laboratory Air Liquide Air Products and Chemicals Inc. Airbus Aisin U.S.A Manufacturing Inc. **AK Industries** AK Steel Corp. Alan Meyers Albemarle Corp. Albert M. Higley Co. Alcan Aluminum Corp. Alcatel-Lucent Alcoa Aleris Inc. Al-Ghanim International AlGood Food Company Allegheny Energy Allegion Alliance Group Technologies

### Allison Transmission Inc.

Alltech Ally PLM Solutions Inc. Alt and Witzig Altaeros Energies Altair Engineering Altec Industries Inc. Alterations Shop Alticor Inc. AM General Amazon.com Ameren American Axle &

### Manufacturing Inc. American Cast Iron Pipe

Company American Consulting Engineers of FL LLC American Infrastructure American Structurepoint Inc. American Woodmark Corp. Amped I AMTRAK Analog Devices Analytical Graphics Inc. Anheuser-Busch Anning-Johnson Apple Inc. **Applied Engineering Services** Inc. **Applied Pavement** Technology Inc. APS Aptar ArcelorMittal USA Archer Daniels Midland Company **ARCO/Murray National Construction Company** ARCONIC Ardisam Inc.

Argonne National Laboratory

Argon ST

### INDIANA EMPLOYER

GLOBAL EMPLOYER

### BOTH INDIANA AND GLOBAL

Aries Technology Company ARM Inc. Armstrong World Industries Inc. **Arsee Engineers** Ascend Performance Materials Asteria Aerospace AstraZeneca Pharmaceuticals Astronautics Corporation of America ATA Engineering Inc. ATC Associates Inc. **ATT Indianapolis** Aurora Parts & Accessories LLC Autocar Avidyne Corp. AxoGen Badve Engineering Ltd. **BAE Systems Baker Concrete Construction** Inc Baker Risk **Baldor Electric Ball Aerospace and** Technologies Corp. Banjo Corp. **Barrios Technoloy** Barry-Wehmiller Design Group **BASF** Corp. **Bastian Material Handling Batesville Casket Company** Inc Baxter and Woodman Inc. Baxter Healthcare Corp. Beam Global Bechtel Corp. Beckett Corp., R.W. **Beijing Union Hospital** 

Belcan Corp.

Belden

**Bell Helicopter** Bendix Commercial Vehicle Systems Bernard Welding **Berry Plastics** Biomet Black and Decker Black and Veatch Corp. Blackboard Inc. Blichmann Engineering **Blue Horseshoe Solutions** Inc Blue Origin LLC BMW **BMW Manufacturing** Bonar Group **Booz Allen Hamilton Borg Warner** Bose Corp. Boston Scientific Corp. Bowen Engineering Corp. **BP** America Brand Energy Services LLC Braun Corp. Brenner Design Inc. Bridgestone Americas Tire Operations Briggs & Stratton Corp. **Bristol Myers Squibb** Broad Air Conditioning Brose North America **BRP-Marine Propulsion** Systems Division Bucyrus International Inc. Bundy Corp. Bunge Burgess and Niple Limited **Burgess Norton** Manufacturing Burns and McDonnell **Butler International** Butler, Fairman and Seufert Inc.

**Butt Construction Company BW** Design Group C&D Technologies Inc. **Cal Comp Electronics USA** Caldwell Tanks Inc. California Institute of Technology California Pellet Mill Co. Caltherm Cambium Networks Camp Dresser and McKee Inc. Campbell Hausfeld Cardinal Health Cargill Inc. Carson Design Associates Carter Fuel Systems Caterpillar CB Burke Engineering Ltd. CEC Controls Company Inc. Celanese Central Intelligence Agency CE Industries Inc. **CFC** International **CG** Visions CH2M HILL Charles Pankow Builders Ltd. Chemische Verfahrenstecknik **Chevron Phillips Chemical** Company LP Chicago Bridge and Iron Chicago Magnesium Casting Company Chicago Powdered Metal Products Co. China Bridge Capital **CHN** America LLC **Chongging Sehr Robot** Technology Ltd. Christina and Company Cigital Cinetic Sorting Corp. Circle Design Group Inc. Cisco Citgo Petroleum Corp. **Civil Engineers of Southwest** Ohio Civiltech Engineering Inc.

CK Enterprises

Clarisond Inc. **CLARK Material Handling** Company **Clarke Engineering** Clear Channel Media and Entertainment **Clever PPC** Clorox **Closure Systems International** Clune Construction Co. **Cobalt Aircraft** Coleman Cable **Commonwealth Engineers** Community Health Network Compania Nacional de Chocolates Computer and Communication Technologies Inc. Concurrent Technologies Corp. **Consumers Energy** Continental **Continental Automotive** Systems **Contour Hardening Controlled Air** Conversant Cook Medical **Cook Pharmica** Cook Research **Cooper Industries** Cooper Tire and Rubber Company **Corn Products International** Cornerstone Consolidated Services Group Cornerstone Controls Inc. Countrymark Covidien CP+B Crawford, Murphy and Tilly Inc. (CMT) Crowder Construction Company **Crowe Horwath** Crown, Cork & Seal CSL Behring

CSN LLC

CTL CTS Corp. Cummins China **Cummins Germany** Cummins Inc. **Cummins India** Cummins-Allison Corp. Curtiss-Wright **CYPE** Ingenieros Cypress Semiconductor **DAAD** Rise Program Daimler Dalton Corp. Danis Building Construction Co. Dart Container Dassault Falcon Jet David Evans and Associates Inc. Dedert Corp. **Defender Direct** Dekko Technology **Delco Electronics** Delphi Corp. **Delta Air Lines Delta Faucet Company** Denso Manufacturing of Michigan **Depuy Orthopedics Depuy Synthes** Design Aire Engineering **Design Collaborative** Design Group Design Systems Inc. Detroit Diesel Corp. Detroit Diesel Remanufacturing-Central Diamond Chain Dickey-John Corp. **DiClemente Siegel Design** Inc. Diebold Incorporated Digiop Technologies Inc. **Diversified Systems** DLR Dometic Corp. Dominion

CSO Inc

**CSX** Transportation

### Domtar Donnelley, R.R., and Sons Co. DoubleMap Inc.

Dow Chemical U.S.A. Dow Corning Corp. Duke Energy **Duncan Aviation-BTL Duoline Technologies DuPage County DuPage Machine Products** Dupont E Technologies Group E. & J. Gallo Winery E2M FAFIT Earth Exploration Inc. Eastman Chemical China Eastman Chemical Co. Eastman Chemical Germany Eaton Corp. Egefer Ltd. Egen Solutions Electro-Motive Diesel Eli Lilly and Company Elkhart County Highway Elkhart Products Corp. **Emerson Appliance Controls Emerson Climate** Technologies Inc. **Emerson Power Transmission Emerson Process** Management FMJ **Encore Construction** Company Endress + Hauser Inc. **Enercon Services** EnerDel Energizer Engineering Consulting Services (ECS) Engineering Innovation Inc. Engineering Resource Associates Enkei America Inc. **Ensacar SA** Entegris **Enterprise Products** Enterprise Rent-A-Car

# OUR EMPLOYERS

Frico Inc ESAK Eskenazi Health ETA **ETH Zurich Research** Ethicon Endo-Surgery Inc. Ethyl Corp. Evenflo **EvensTime** Evonik Degussa Corp. Evraz Inc. NA Exelis Inc. **Exelon Nuclear** Experian Exxcel Contract Management Exxon Mobil Corp. F.H. Paschen, S.N. Nielsen **FAB** Construction Facebook Fairchild Semiconductor Fairfield Manufacturing Faurecia FCA US LLC (Fiat Chrysler Automobiles) Federal-Mogul Corp. Fermilab Ferrovial Agroman US Corp. FEV Inc. Firestone Building Products First Energy Corp. Fisher and Partners **Fleetwood Motors** Fleis & Vandermbrink Eng. Flexco Flowserve Corp. Fortune Brands Home & Security Franklin Electric Fresenius Kabi, USA LLC Fresh Express Freudenberg-Nok Frito-Lay Inc. Fuel Tech Inc. **Fugro West Incorporated** Fuller, Mossbarger, Scott and May FUZION GAF Gallatin Steel

Garney Gates Corp. **GE** Appliances-a Haier Company **GE Supply GEA Küba GEA Refrigeration** Technologies GENCO **Generac Power Systems General Cable** General Flectric General Motors Corp. GENESYS Corp. Gentex Gerresheimer Glass Gessner Engineering **GKN Sinter Metals** Global Goodwin and Marshall Inc. Goodyear Tire and Rubber Co. Grain Processing Corp. Graycor **Greatbatch Medical** Orthopaedics Greeley and Hansen LLC Greenlee Grundfos **GRW Engineers Inc.** GTL /Illinios River Energy **Guardian Automotive** Products Inc. Gulfstream Aerospace H and S Manufacturing Haier America Haley & Aldrich Halliburton Hamilton Consulting Hannover Clausthual Hardt Electric Harlan Laboratories Inc. Harley-Davidson Motor Co. Harman International Inc. Harris Corp. Harvey-Cleary Builders Hasbro Hawk Corp. Hawkins Inc Hayward Baker Inc.

Heapy Engineering HeartWare Helena Industries Helix Medical LLC Hella Electronics Corporate Center Helmer Scientific HENDRICKSON Heritage-Crystal Clean LLC Herzog Companies Hewlett Packard HEXBUG Hillenbrand Inc./Batesville **Casket Company** Hills Pet Nutrition Hindustan Petroleum Limited Historic New Harmony Hitachi Hitachi Automotive Systems Hitachi Powdered Metals (USA) Inc. HITT HNTB Corp. Holder Construction Holland Hollister Inc Honda Aircraft Honda of America Mfg. Inc. Honeywell Inc. Hong Kong Polytechnic **Hoosier Molded Products** Hormel Foods HP Barcelona Husco International **IBI** Group IBM Illinois Aviation Academy Illinois Dept. of Transportation Illinois Tool Works IMMI Independent Can Company Indesign LLC Indian Oil Company Indiana American Water Indianapolis Power and Light **Industrial Contractors** 

Industrial Dielectrics Inc.

Hazen and Sawyer P.C.

Ingredgion INMEL Ingenieria S.A.S. Innovative Scientific Solutions Inc. Intel Intelligrated Systems LLC Interactive Intelligence International Livestock **Research Center** International Paper International Truck and Engine Corp. Inteva Products **ITT Communications Systems** ITW Deltar Fuel Systems Iwis Drive Systems LLC Jacobs Engineering Jarden Corp. **Jasper Engines** JDSU Jedson Engineering Inc. Jetblue Airways Inc. John Deere Johns Manville Johnson County REMC Jones Company JTFKT K and M Wireless Kane County **Kaplan Financial** Kapstone Paper Kautex-Germany Kautex-Spain Kendrion (Mishawaka) LLC **KERAMIDA Inc.** KFC Kiewit **Kimball Office** Kimberly-Clark Corp. Kimley-Horn and Associates Inc. **Kinetic Vision Kirby Risk KIT Research** Kleiner Perkins Caufield & **Byers** Klingner and Associates P.C. Knorr-Bremese Espana

Ingersoll Rand

Koch Industries Kohl's Department Store Kokomo Grain **Kokosing Construction** Company Korda Nemeth **KPFF** Consulting Engineers Kraft Foods Inc. Kroger L.A. Fuess Partners Inc. L-3 Communications Lafarge North America Lam Research Landis and Gyr Landrum and Brown Lantech LANXESS Corp. Latitude Communications Lau Industries LeanTaaS Inc. Lee County Leibiniz University Research **Leichtwerk** Lennox International LEONI Wiring Systems Inc. Lexmark International Inc. LG and E I HP Liberty Group Liberty Partners Financial Services Lincoln Electric Co. Lippert Components Lockheed Martin Logan Aluminum Logicalis Inc. L'Oreal USA Los Alamos National Laboratory Louisville Water Co. LSC Communications Lubrizol Corp. Luckett & Farley Lutron Electronics Co. Inc.

Lutron Electronics Co. Inc. LyondellBasell M.D. Wessler and Associates Inc. M.E. Simpson Co. Inc.

### **Excavating Inc.** MACTAC Made2manage Systems Inc. Magna Mirrors Magna Norplas Industries Magna Powertrain Malcolm Pirnie Malcom Pirnie Inc. Mallory Automotive Motor and Controls Manhard Consulting **Manipal Institute Tech** Manufacturing Technology Marathon Petroleum Company LP Maregatti Interiors Marian Inc. Mass Electric MathWorks Matrix Technologies Inc. Max Planck Institute Maxon/Honeywell Mayo Clinic McCarthy McShane Construction Corp. Mead Johnson Mead Johnson Nutritionals Meag Power MED Institute Inc. **Medtronic** MedVenture Technology Mercedes/Daimler Mercury Mercury Marine Meritor **Messer Construction** Metal Technologies Inc. Michael Baker International Microchip Technology Inc. **Micromatic LLC** Mlcron Technology Inc. Midmark Midwest ISO **Milacron Plastics** Technologies Group LLC **Milestone AV Technologies** LLC

MAC Construction and

Milliman PRM Analytics

Nok Air

Mindel, Scott & Associates Miniat Holdings LLC Minster Machine Co. MIT Lincoln Labratory Mitsubishi Electric Automotive America Mitsubishi Motor Manufacturing of America **MJ Harris** Modine Manufacturing Company Molex Inc. MonoSol Rx Montgomery County Economic Development Moog Inc. Morey Corp. Morgan Thermal Ceramics Morton International Moto Development Group Motoman Inc. Motorola Mozilla Corp. MPD Inc. **MRO Engineers** MS Consultants Inc. MSA Safetv MSC Software MTI Multimatic Indiana-New Haven **MWM Acoustics** Nakatani Reis U.S. Fellowship Program Nalco Company Nanjing Aetocar Refrigerating Company Nanshan Nanyang Tech Research N-ask National Freight Industries Navsea Nestle Newburg Construction Newell Rubbermaid Nibco Inc. Nicholson Nishiwaka Standard Co.

Nordson Corp. Norfolk Southern Corp. Northrop Grumman Novae Corp. Novelis Inc. NTH Consultants Ltd. NTN Driveshaft Nuclear Management Company LLC **Nucor Steel** Nufarm Americas Inc. Nurse Family Partnership NuVasive Inc. **NVH Metrics Inc. NVIDIA** Oak Ridge National Laboratory **Oatey Company** O'Brien and Gere Odle, McGuire, and Shook Corp. **OERLIKON** Office Interiors Inc. Ohio Department of Transportation **OHL** Logistics O-I **Omron Automotive** Electronics One Eleven Design **Open Control Systems** Opinator **OPP** Sample **Optima-Pharma** Opus East **Orbital ATK** Oscar Winski Company Inc. Oshkosh Corp. O'Tech Corp. OTIS Outside Source Design **Overton Industries Owens-Illinois Ovstar IWK** P3 North America Pace Dairy Foods of Indiana PACIV Palm Oil Refinery Panduit Corp.

# OUR EMPLOYERS

**Paragon Medical** Paragon Medical Inc. Parker Hannifin Parsons Transportation Group Patheon Pharmaceuticals Inc. Patriot Engineering PCC Airfoils PCL **PEI GENESIS** Peloton Land Solutions Pentair Permasteelisa Perry and Associates LLC Pilkington North America PinnacleAIS **Planetary Resources** Plexus Corp. **Plymouth Tube** Pole/Zero Corp. Polyone Corp. **Power Construction Power Transmission Solutions** Praxair Electronics Praxair Surface Technologies Inc. Precision Castparts Corp. Premier Design and Build LLC **Premier Power** Premier System Integrators **Prescient Surgical Prince Castle** Procter and Gamble Co. Product Action Professional Consultants Inc. Public Consulting Group Purdue Technical Assistance Program Purdue University Oualcomm **Quest Diagnostics Ouest Global** R.A. Jones and Co. Inc. Rabine Paving **Radian Research** Radio Flyer Ralcorp **Raybestos Products Co.** Raytheon **Rea Magnet Wire** 

REGAL Remenschneider Design Inc. Research in Motion Rexnord Industries LLC Rheem Manufacturing Company Rhinestahl Richard Childress Racing Richard Equipment Company (RECO) Richard L. Roudebush VA Medical Center Robert Bosch Corp.

**Red Arch Solutions** 

Robert Bosch Tool Corp. **Roche Diagnostics Operations Inc. Rockwell Automation Rockwell Collins** Rohm and Haas Kentucky Inc. **Rolls-Royce** Roquette America Inc. Royal United Mortgage **RQAW** Corp. **RTM and Associates** Ruhr University Bochum Ruscilli Construction Inc. **Rust-Oleum RW** Armstrong Rytec Corp. S and C Electric Co. SABIC Innovative Plastics Safety-Kleen Systems Inc. Sage Environmental Consulting L.P. Sager Metal Strip Co. SAIC Saint-Gobain Corp.-North America SAJE (Scott A. Jones Enterprises) Samtec Sandia National Laboratories Sapura Kencana Power Service Sargent and Lundy SBB Research Group Schlumberger

Company Schneider Corp. Schneider Electric SCHULTE Corp. Science Applications International Corp. (SAIC) Sebesta Blomberg and Assoc. Inc. Sensor Technology Systems Servpro of Western Lake County Shambaugh & Son L.P. Shanghai Dechen Automotive Sales Co. Shape Corp Sheet Dynamics Ltd (SDL) Shenyang Machine Tool Company Shield Restraints Systems Inc. Siemens Siemens Energy and Automation Inc. Siemens Medical Solutions, USA Signature Organizing Service SOS Simulex Inc. (SEAS) SJTU Research Skender Construction Smurfit-Stone Container Corp. SoCore Energy Software Development Technologies Software Engineering Professional Soil and Material Consultants Inc. Solae Co., The Solar Turbines Inc. Solectron Solutia Inc. Solvav Sona International Inc. SonaCare Medical Southern Company Transmission

Schnabel Foundation

Spacex Speedway LLC Speedway Superamerica LLC Spiretech Square Inc. S-Ram Dynamics St. Jude Medical St. Onge Company St. Vincent Indiana Stanley Convergent Security Solutions Stanley Engineered Fastening **Stanley Security Solutions** Inc. Stant Corp. Steelcase Inc. Stihl Inc. Stored Value Systems Structural Analysis Engineering Corp. Stryker Corp. Stryker Orthopaedics Subaru of Indiana Automotive Sulzer Euroflamm US Sun Chemical Corp. Sun Hydraulics SunCoke Energy Super Systems Inc. Superior Essex Suzhou WSD Purification Technology Swagelok Co. Symmetry Medical Synopsis Sypris Solutions T & B Tube T and B Tube **TAS Energy** Tata Consultancy Services Tate and Lyle North America Inc. **TCP** Reliable **TE Connectivity** Technicolor TechSolve Inc. **TECT** Aerospace **TEKO** Refrigeration

### **Tendercare Home Health** Services Inc.

**Tenneco** Automotive **Tennessee Valley Authority Tesla Motors** Test and Controls International Inc. Tetra Tech **Texas Instrument** Thaicom The Andersons Inc. The Dallas Group of America Inc.

The Dannon Company The Flournoy Companies The Hershey Company The Hon Company Asia

The MITRE Corp. The Morey Corp. The Nemeth Group Inc. The Newark Group The Scotts Miracle-Gro Company The Timken Company The Troyer Group The Walsh Group ThermaTru Thermo Scientific Pierce **Protein Research** ThyssenKrupp Crankshaft Company Timco Aviation Services Inc. Timken Company Torad Engineering

Tornier

### Tosoh SMD Inc.

**Town of Fishers** Toyota Engineering and Manufacturing of North America Trane Trans-Pacific Engineering Corp. Transworks Inc. Transystems Corp. Traylor Bros. Inc. **Trelleborg Sealing Solutions** 

Trelleborg Vibracoustic Triclinic Labs

Trimble **Trinity Industries** Troyer Group Inc. Tsinghua University Research TU Berlin TU Braunschweig Research Turner Collie and Braden **Turner Construction Co. LLC** Tyco International Tyco Thermal Controls **Tyson Foods** U Applied Sci Buchs Research

U.S. Government U.S. Nuclear Regulatory Commission U.S. Steel UC3M Research Ultralingua Inc.

**Unilever HPC Union Pacific United Airlines** United Consulting United Parcel Service United Solar Ovonic LLC **United Technologies** University College London Research University of Cantebury Research University of Queensland Research University of Stuttgart Univertical Inc. UOP **Urschel Laboratories** Incorporated U.S. Army Corps of Engineers U.S. Government NASA Glenn **Research Center U.S. Government NASA** Johnson Space Center U.S. Government National Security Agency **U.S. Government NASA** Dryden Flight **U.S. Nuclear Regulatory** Commission **USF Holland** UTC Carrier Corp.

V3 Companies VALEO Valiant Machine & Tool Inc. Validated Customs Solutions Valspar Corp. Vantage Specialty Chemicals Vectren Venturesitv Vertellus Specialties Inc. Veteran's Affairs Medical Hospital **VHA** Central Victualic Vista Host

Vitesse Semiconductor Corp. VMWare Voestalpine Rotec Inc. VS Engineering Inc. W S G Manufacturing W.M. Lyles Wabash National Wabash Valley Alliance Wahl Clipper Walt Disney World Wanders Inc. Watchfire Signs Watlow Electric Manufacturing Co. Weaver Boos Consultants Webb Wheel Products Inc. Weigand Construction

Company Inc. Weihe Engineers Inc. Weitz Wellpoint West Port Westell Western Michigan University Westinghouse Savannah River Co.

### Weyerhaeuser Co.

Whirlpool WHITMORE Wilson Sporting Goods Winamac Coil Spring Inc. Windy City Representatives Wolf Technical Services Inc. Wonderware Central

### Wooga GmBH Woolpert Workhorse Custom Chassis

WORKS Entertainment World Kitchen Wright Industries Wrigley Company WSP|Parsons Brinckerhoff Wyle Aerospace Group XCG Consultants Inc. Xtek

### Yang-Ming University

Research Yaskawa America Inc. Yelp Zamil Steel Zebra Technologies Corp. ZF Lemforder **ZF TRW Global Commercial** Steering ZimmerBiomet 7011 Medical





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