

The Office of Professional Practice facilitates Work-Integrated learning at Purdue. Presently, OPP administers the following programs, which require registration:

- Cooperative Education (3- and 5-Session, Master's)
- Global Engineering Alliance for Research and Education (GEARE)
- Domestic Internships
- Global Internships
- Domestic Research Experiences
- Global Research Experiences
- Study Abroad



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.

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reetings from the Office of Professional Practice!

Thank you for your interest in and support of Purdue's Professional Practice Programs. The Office of Professional Practice continues to provide exemplary programs and service to the more than 1,200 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. As such, 2015-2016 proved to be another exciting year for our programs, processes, and staff.

The OPP mission is more relevant than ever. As evidence, the Gallup-Purdue Index found that 71% 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 work place. OPP programs directly influence those outcomes! Therefore, OPP feels a strong impetus to expand Cooperative Education opportunities to students in all corners of the University. Thus, the Professional Practice Advisory Council, composed of faculty members from each Co-Op eligible discipline, approved the addition of a 3-session Co-Op option for students studying Statistics/Actuarial Science. Furthermore, OPP, after seeing rising demand from industry for Computer Science Co-Op students, worked with the Department of Computer Science to reincarnate its Co-Op program and add a new 3-Session model, a move greeted with roaring approval. This aligns with the Purdue Moves initiative, "Strengthening Computer Science," and, therefore speaks to OPP's role infulfilling the University's mission. I am also excited to announce that OPP will assume jurisdiction over Purdue's Interns for Indiana Program, which connects Purdue students to Indiana startups and second-stage companies, with the goal of keeping them in Indiana after graduation.

While OPP is clearly dedicated to innovating its current programs and expanding opportunities to additional students, we are also committed to improving our own operations. As I briefly detailed in last year's message, OPP contracted with Orbis Communications, Inc. to construct a new database in which to house and maintain student and employer records. I am happy to report that work on this project has been completed and the database is now in use, with active student records planned to migrate to the new system this summer. Employers utilized the system to register and post jobs for the Professional Practice Career Fair and Interview Days this past February, with early responses showing immense satisfaction with the new system.

Finally, 2015-2016 brought personnel changes to the Office of Professional Practice. Students and employers alike will comment that Purdue's Co-Op program would not be successful without a staff dedicated to providing attentive and personalized service. Having proved herself as an integral member of the OPP team, Aimee Griggs was promoted to Program Information Specialist, effective January 1, 2016. In addition, Chad Barker joined OPP as the Communications and Marketing Specialist in August. Chad is a 2013 graduate of Purdue's Brian Lamb School of Communication. Sadly, OPP learned of the passing of former Computer Programmer Tom Ruschak in May. Tom was an extremely dedicated employee, whose contributions to our previous FileMaker database number in the thousands of hours. Our thoughts are with his family during the difficult time.

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

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

Dr. Eckhard A. Groll is the Reilly Professor of Mechanical Engineering and the Director of the Office of Professional Practice at Purdue University. A fellow of the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE), Dr. Groll received his diploma in Mechanical Engineering from the University of the Ruhr in Bochum, Germany and his Doctorate in Mechanical Engineering from the University of Hannover, also in Germany.









#### **COOPERATIVE EDUCATION**

Cooperative Education (Co-Op) programs offer numerous benefits for students looking to gain real-world experience before they graduate. Participants choose between 3- or 5-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 increasingly responsibility and diverse roles in their work sessions. This also allows students to experience multiple areas of a company's operation. Students also 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)

Purdue's flagship global engineering program, GEARE integrates language training, study abroad, cultural orientation seminars, domestic and international work experiences, and global design team projects into the four-year Engineering curriculum.

GEARE is the most comprehensive program of its kind in the United States. OPP has partnered with world renowned universities and global industry leaders to ensure optimal academic and professional preparation. The international collaboration associated with GEARE lays the foundation for a virtuous career as a global engineer.



#### **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 and be 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 also earn research credit transferable to their Purdue degrees. Currently, OPP facilitates these experiences with:

- Tsinghua University (Beijing, China)
- Leibniz Universitat Hannover (Hannover, Germany)
- University of Stuggart (Stuggart, Germany)
- Technical Unviersity of Braunschweig (Braunschweig, Germany)
- Ruhur University of Bochum (Bochum, Germany)

#### **STUDY ABROAD**

Professional Practice Study Abroad programs offer students an opportunity to gain an understanding of the global work environment. Students travel overseas for a one to two-week time period and will explore aspects of professional practice in a particular country.

2015-2016 marked the second year of the wildly popular "Experience German Engineering" Maymester course. Students experienced the German cities of Stuggart and Hannover, while interacting with leaders in industry and academia.

#### Parallel Co-Op

#### **Master's Co-Op**

While the Office of Professional Practice has, in some form, 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 non. Therefore, we are proud to announce the creation 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 economically disadvantaged 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 towards degree completion.

While some students have completed this program informally, the program will officially launch in Spring 2017.

Master's-level students have long sought professional work experience to compliment the strong theoretical foundation they receive from their academic preparation. While this program has existed on a limited scale since 2012, the Office of Professional Practice has designated the expansion of the Master's Co-Op Program as a priority in coming years. As part of her new role as Program Information Specialist, Aimee Griggs will be the primary manager of this exciting program.

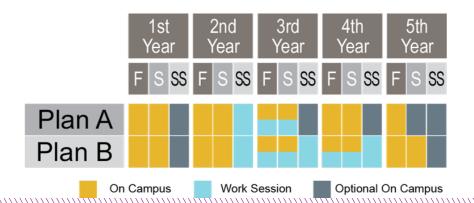
The Master's Co-Op Program benefits from a special relationship with Purdue's Engineering Professional Education department. Students pursuing the Interdisciplinary Master of Science in Engineering degree complete a 12 month Co-Op work assignment in the midst of their 21 month academic program. This plan of study yields an Engineer who is poised to make an immediate impact in any technical setting.

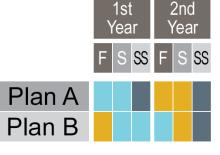
We are especially grateful to our current Master's-level employers, which include Cummins, General Electric, and Whirlpool.











#### **Expanding Co-Op**

The Office of Professional Practice is committed to expanding work-integrated learning opportunities outside its core constituencies. Therefore, the OPP is working closely with its partners in the Krannert School of Management and School of Nursing to bring Cooperative Education to their students.

Rachel Terrell, BSN '16, is Purdue's first-ever Nursing Co-Op student. Upon learning that Nursing was a Co-Op eligible discipline, Rachel worked doggedly to find an employer to facilitate a Cooperative Education experience. Thankfully for Rachel, Eskenazi Health, a 315 bed public hospital in Indianapolis, emraced the idea of employing a Co-Op student in its Emergency Department. During her first work rotation, Rachel worked as a Care Tech before progressing to the role of a Student Nurse Assistant in her second rotation, working primarily in Low Acuity environments. Rachel's final rotation will bring her exposure in High Acuity environments, including the Burn Unit and Critical Care. Rachel says, "Co-Op has made me a better nurse. It is thanks to this experience that I will require less training and be more ready to render excellent patient care upon graduation."

Students in the Krannert School of Management have also indicated a desire to avail themselves of Cooperative Education experiences. When Wesley Huang, BSIM '17, matriculated to Purdue, he was determined to find an opportunity that would allow him to develop a breadth of expertise equal to the depth he would receive from a single internship. He landed a 3-Session Co-Op with GE Aviation. Huang says, "I see a distinct advantage in Cooperative Education. The longer period of work rotations, coupled with the higher expectations associated with the Company's investment in me, leads to an all-around more meaningful experience."





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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 2015 class of inductees was no exception to this excellent pedigree. They included, **Mary Lee Gambone** (BS '82, Metallurgical Engineering), **Jim Karl** (BS '81, Materials Engineering), Candee Krautkramer (BS '90, Chemical Engineering), **Steven Perry** (BS '84, Chemical Engineering), and Janice Voss (BS '75, Aeronautical and Astronautical Engineering).

More than 200 people attended the induction ceremony, held September 18, 2015 in the Purdue Memorial Union North Ballroom. The event featured remarks from Director Eckhard Groll, an update from Professional Practice Ambassadors President Pushkaran Palani, a keynote address from Executive Vice President for Research and Partnerships Suresh Garimella, and a formal induction proceeding.





## FACTS AND FIGURES



**Dr. Mary Lee Gambone** has garnered over 30 years of distinguished experience in the aerospace materials field. Since joining Rolls-Royce in 1998, she has had several roles, including Chief of Research and Technology Strategy and Manager of Critical Part Lifing. She is currently the head of Rolls-Royce Materials Engineering. While at Purdue, Mary Lee was a Co-Op for Armco Steel in Middletown, Ohio. She said, "I learned...how to get along with people in a team from my Co-Op experience. I know I would not have been as good an engineer without it!"



**Jim Karl** currently serves as the Executive Vice President and Chief Operating Officer of the Purdue Alumni Association. Immediately following graduation from Purdue, Jim joined IBM at their Essex Junction, Vermont facility and continued to work out of that location until his retirement in June of 2011. During his 30-year career with IBM, Jim held numerous engineering and management positions throughout the Microelectronics Division's development and manufacturing organizations. While a Purdue student, Jim was a 5-term Co-Op with General Electric.



**Candee Krautkramer** is a Research Technical Leader in Corporate Research & Engineering on the Materials Science Structures team for Kimberly-Clark. Candee began her careerwith Kimberly-Clark as a 6-term Co-Op while studying Chemical Engineering at Purdue. Candee's product improvements have helped consumers around the world stay clean, fresh, and dry. Throughout her career, Candee has been active in college recruiting at Kimberly-Clark. In the last several years, Candee and her team have more than doubled the number of Purdue Co-Ops at Kimberly-Clark.

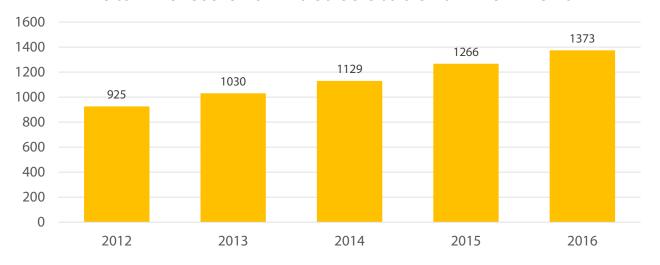


**Steven Perry** currently serves as Vice President of Drug Substance Technical Operations for Cook Pharmica, the pharmaceutical contract manufacturing subsidiary of Cook Medical. Steven has had a storied career within the pharmaceutical industry, having worked in leadership capacities for Ortho Biotech (a division of Johnson & Johnson) and ImClone systems, where he oversaw the launch of a major cancer therapy. A native of West Lafayette, Steven is active in recruiting Purdue Co-Ops to Cook Pharmica. He completed a 5-term Co-Op at Dupont while a student.

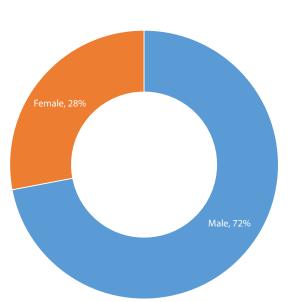


**Janice Voss** was an American Engineer and a NASA astronaut. A Purdue Co-Op at the NASA Johnson Space Center, Janice received her degree in Aeronautical and Astronautical Engineering in 1975, before matriculating to MIT for graduate workfrom which she received Master's and Doctorate degrees. During her time as an astronaut, Janice participated in five spaceflights, in addition to serving in numerous managerial capacities. Janice died in 2012 from breast cancer. Her parents accepted her award posthumously.

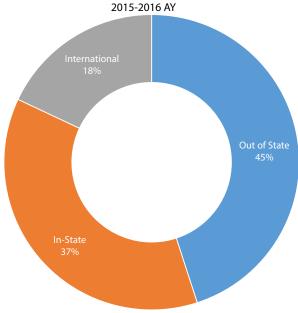
#### Total Professional Practice Student Enrollment



Professional Practice Students by Gender



Professional Practice Students by Residency

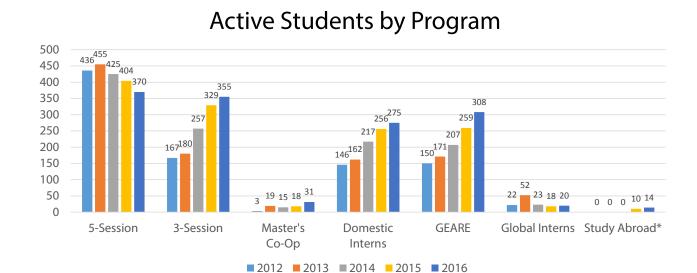


The Office of Professional Practice is proud to display that its total student enrollment continues to increase year over year - that is, the net impact on students continues to multiply. In addition, OPP programs contain a diverse group of students, with 28% of program participants identifying as female, which exceeds the College of Engineering undergraduate (91% of the total OPP constituency) female population of 24.7%.

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# STUDENT AND EMPLOYER STATISTICS

# ENGINEERING PARTICIPATION

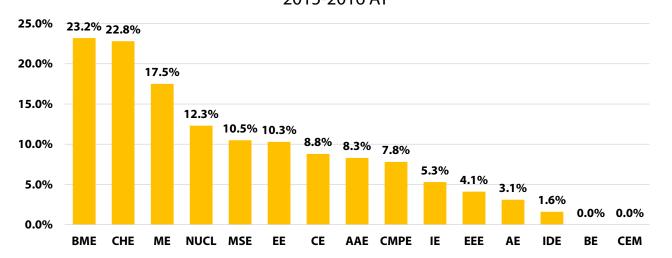


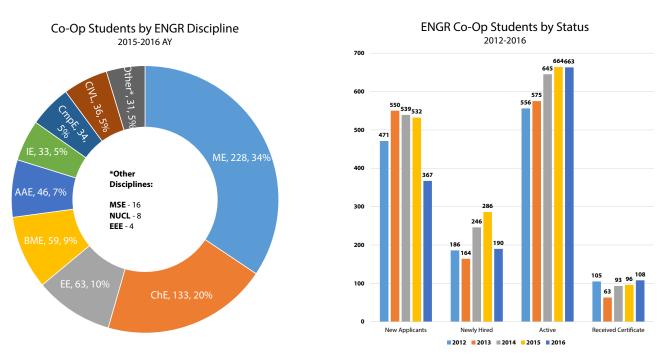
2015-2016 saw an unfortunate drop in 5-Session Co-Op enrollment. This is unsurprising, given the trend over the past five years. This is vindicated by yet another increase in 3-Session Co-Op participation. Students and employers alike indicate that the increased flexibility associated with the 3-Session 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.



Professional Practice Programs could not exist without dedicated industry partners. While overall employer registration with OPP has declined slightly, it is exciting to see the increase in active Global employer participation, as an increased number of employers is neccessary to successfuly navigate students through the Global Engineering Alliance for Research and Education (GEARE) program.

# Percentage of Students in ENGR Disciplines Enrolled in Co-Op 2015-2016 AY





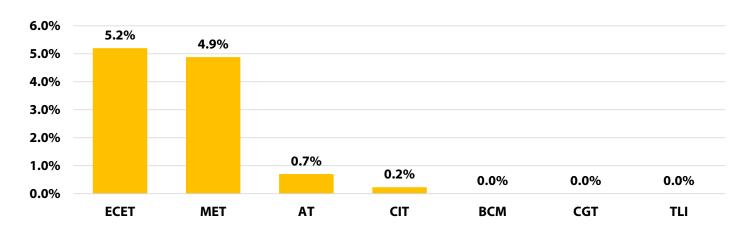
College of Engineering undergraduates make up 91% of the OPP student population. Therefore, it is particularly interesting to view trends in ENGR student enrollment. Traditionally, Chemical Engineering and Mechanical Engineering have been the most popular Co-Op disciplines, and 2015-2016 is no different. While total applicants to 3- and 5-Session Co-Op are down, the 2015-2016 placement rate of nearly 53% is an undeniable point of pride.

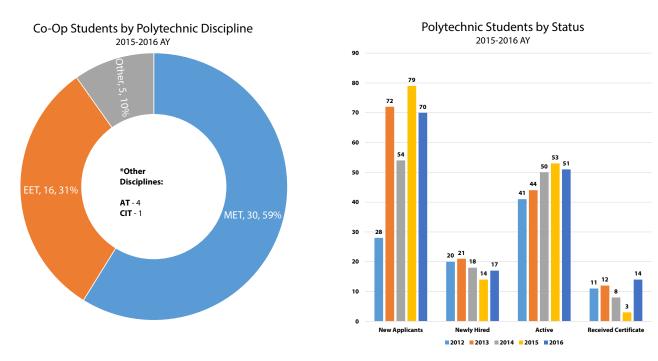
13 Mable point of pride.

### POLYTECHNIC PARTICIPATION

# GEARE PARTICIPATION

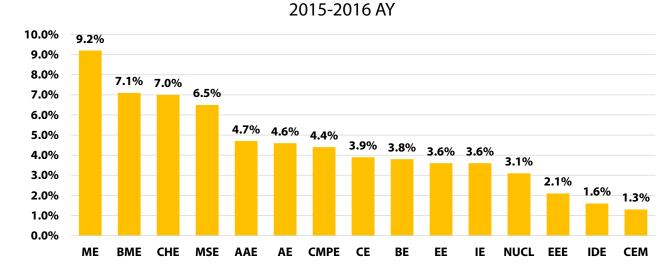
#### Percentage of Students in Polytechnic Disciplines Enrolled in Co-Op

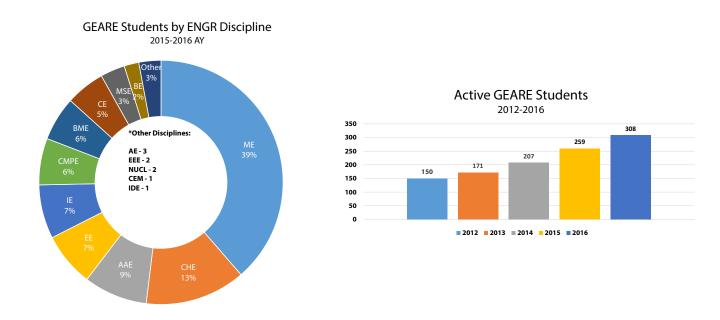




The Purdue Polytechnic Institute (formerly the College of Technology) contains OPP's second largest constituency. As part of its transformation, the Polytechnic Institute places great emphasis on professional experience prior to graduation. Therefore, we expect to see an increase in participation from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

### Percentage of Students in ENGR Disciplines Enrolled in GEARE

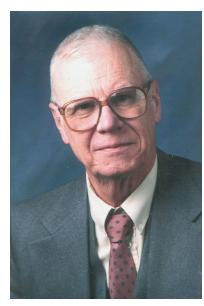




The Global Engineering Alliance for Research and Education (GEARE) program has quickly become one of OPP's most popular programs. 2015-2016 saw another period of increasing interest, with a 19% increase in active GEARE students. Participation in this program is likely influenced by scholarship incentives from the Office of Study Abroad, which help to defray the cost of travel.

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An annual tradition, the Office of Professional Practice honored four students with Leonard E. Wood Memorial Scholarships during the 2016 Professional Practice Career Fair and Interview Days.

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." said 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."



This year, OPP experienced robust interest in the Wood Scholarships, receiving 59 applications from a wide array of talented students. The Selection Committee awarded four scholarships for 2015-2016 academic year, two in the fall and two in the spring semester, respectively. The 2015-2016 Leonard E. Wood Scholars are:

#### Fall 2015

- Cody Cyr, BSMET '16 3-Session Co-Op, GE Aviation
- Jorge Ordonez-Cordova, BSChE '16 5-Session Co-Op, Roquette America

#### Spring 2016

- Catalina Abad, BSBME '17 3-Session Co-Op, Cook Medical
- Elijah Lassiter, BSME '17 5-Session Co-Op, UTC Aerospace Systems

This year's winners 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," said Groll. "The student recipients for 2015-2016 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 22 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."



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The Office of Professional Practice is grateful for the support it receives from its generous alumni and friends of work-integrated learing at Purdue. Without their financial contributions, the 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:

Chad E. Barker
Tyler S. Brammeier
Rick and Mary Bried
Hilary A. Butler
Jeanne L. Butler
Roger D. Cain
Geoffrey and Katherine Cubitt
Ilene D. Dailey
Tim Dickson
Renee S. Fieldhouse
Brianne M. Garness
Diane J. Graziano
Alan and Carolyn Grill

Candy Groth
Neal and Cyndy Houze
Bob and Ann Johnson
Philip and Susan Karau
Jim and Barbara Karl
Bradley and Leann Maggart
Theresa E. Matthews
Douglas R. McKissack
Ken Montgomery
Matthew D. Montgomery
Mona and Kelly Moore
Dan and Laura Niemeier
Sean D. Noble

Uhunnoma Ogbeifun
Dennis M. Overly
Ralph and Hope Power
John and Ann Redman
Peggy and Paul Reising
Chris Ruebeck
Rick and Claire Stefaniak
Bob and Betty Straub
Ashley M. Stroup
Michael and Kalli Stull
Steve and Lori Wanders
Andrew A. Weintraut
Glenn P. Weston

Many thanks go to Ron Haddock, Tom Malott, and Bill Nelson (pictured from left to right, below) 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!







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 to \$400 from \$1000.

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.** 



### CORPORATESTEWARDSHIP

# PROFESSIONAL PRACTICE PARTNERS PROGRAM

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 national and international) opportunities for over 1,200 students on the West Lafayette campus.

The Co-Op program, our flagship program, has 725 students currently participating in various stages of the program. We facilitate both the 5 and 3 session 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 3 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 over 300 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 GPA scale. We're also extremely proud of the fact that 37 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 US 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 2015-2016 academic year. Without corporate support, we could not deliver the innovative, high-quality programing 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% 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 work place. Our programs directly influence those outcomes!

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

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	X	X	X
Logo Placement on Office of Professional Practice Website	X	X	X
Invitations to participate in Professional Practice and GEARE Industrial Advisory Committee Meetings and Employer Seminars	X	X	X
Employer-sponsored seminar or workshop to be coordinated on campus (one per academic year), with OPP event management.	X	X	X
Preferred placement at events sponsored by the Office of Professional Practice	X	X	X
Registration for two (2) free tables to be utilized during Professional Practice Career Fair and Interview Days	X	X	X
Annual networking event with Co-Op students	X	X	X
Annual networking event with GEARE students	X	X	X
Logo placement at any conferences and events with Office of Professional Practice representation		X	X
Employer-sponsored seminar or workshop to be coordinated on-campus or via video conference at any time of the year		X	X
Two additional free tables, beyond Black-level benefit, to be utilized during Professional Practice Career Fair and Interview Days		X	X
Access to resume booklets for graduating Co-Op and GEARE students		X	X
Registration for unlimited free tables during Professional Practice Career Fair and Interview Days			X
Free access to campus interview space at anytime			X
Annual exclusive recruitment event focused on graduating Co-Op and GEARE students			X
Logo placement on all OPP marketing materials			X
Giving Requirement	\$2,500	\$5,000	\$10,000

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The following is a list of employers who have actively recruited Purdue Cooperative Education and GEARE students in the last five years. Indiana employers are noted in gold. \* Denotes Global employer.



Northrop Grumman is a leading global security company providing innovative systems, products and solutions in autonomous systems, cyber, C4ISR, strike, and logistics and modernization to government and commercial customers worldwide.





Consumer's Energy is one of the nation's largest combination utilities, providing electric and natural gas service to nearly 6.6 million of Michigan's 10 million residents, in all 68 Lower Peninsula counties.



Cummins is a global power leader that designs, manufactures, sells and services diesel engines



Bechtel provides Engineering, and Project Management services around the world.



Air Products touches the lives of consumers around the globe in positive ways every day. Serving customers across a wide range of industries, Air Products supplies a unique portfolio of gases, performance materials, equipment, and services.







UTC provides a broad range of products to customers in the aerospace and building industries.

United



Kimberly-Clark produces paper-based consumer products in more than 150

Advanced Micro Devices, Inc.

Air Liquide

Air Products and Chemicals, Inc.

Airbus\*

Alberto Culver Co.

Allison Transmission Inc.

Altair Engineering

Altec Industries Inc American Axle\*

Amped I

ARCO/Murray National Construction Company

Arsee Engineers Arvin Merito

Ascend Performance Materials

Asteria Aerospace\*

ATA Engineering, Inc.

Atwood Mobile Products LLC Aurora Parts and Accessories, LLC

Badve Engineering Ltd.\*

Barry-Wehmiller

BASF Corp\*

Bechtel\*

Berry Plastics

. Black and Veatch

Blichman Engineering

Borg Warner

Bosch Boston Scientific

Braun Corn

Brose North America

Bunge

Butt Construction Company

Cargill Inc

Caterpillar\*

**CEC Controls Company** 

CF Industries

Chemische Verfahrenstecknik\*

Chicago Powdered Metal Products Co

China Bridge Capital\*

Chongqing Sehr Robot Technology Ltd.\*

Chrysler\*

Cisco

Citgo Petroleum Corp.

Civiltech Engineering, Inc.

Clever PPC&

Cobalt Aircraft\*

Consumers Energy

Cornerstone Controls, Inc.

CSL Behring

CTS Corp.

Cummins-Allison Corporation

CYPE Ingenieros\*

Daimler Truck\*

Delta Air Lines

Delta Faucet Co.

Detroit Diesel Corporation

DLR\*

DLZ Indiana, LLC

Dometic Corporation

Dominion

Domtar

Dow Chemical U.S.A.

Dupont

E and I Gallo Winery EAFIT\*

Earth Exploration, Inc. Eastman Chemical Co.3

Eaton\*

Eaton Corp.

Egefer Ltd.

Electro-Motive Diesel

Eli Lilly\*

Elkhart County Highway Dept.

Emerson Climate Technologies, Inc.

Emerson Power Transi

Engineering Innovation, Inc.

ETH Zurich Research\* Ethicon Endo-Surgery, Inc.

Exxon Mobil Corp.

Faurecia\*

FCA Chrysler\*

Fermilab

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HP Barcelona\*

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TU Braunschweig Research\*

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US Gov. Naval Surface Warfare Center

US Gov. Army Eng. Support

US Gov. Army E US Gov. CIA

US Gov. Corp of Engrs.

US Gov. NASA/Dryden Flight Research Center

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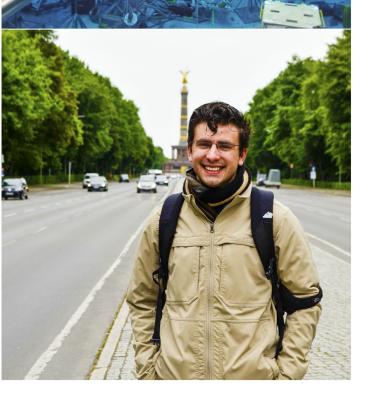
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Potter Engineering Center, Rm. 114 500 Central Drive West Lafayette, IN 47907

> (765) 494-7430 propractice@purdue.edu opp.purdue.edu

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