

Cooperative Learning Experiences Autumn 2013 through Autumn 2014

The Engineering Cooperative Education & Internship Program (ECIP) helps undergraduate students to obtain career-related employment of two types: cooperative education (co-op) positions and internships. A co-op experience provides an opportunity to apply what is learned in the classroom in career-related positions by alternating quarters of full-time coursework with periods of paid, full-time employment. Internship involves one work period with an employer. A work period may last for one quarter or for two consecutive quarters. Summer internships are the most popular among students and employers.

Students meet with Brian Endres and Katie Bush-Glenn to evaluate different schedule arrangements before interviewing because many employers hire for specific "rotations". For instance, students may work full-time during the summer term, attend full-time classes in autumn, and return to their employer for full-time work in the winter. The most popular term to work is the summer. Last year, CBE students completed 84 co-op rotations and 110 internship or part-time work experiences.

The following is a list of companies who hired OSU undergraduates in our program and the students who were hired by those companies:

Adsorption Research Inc: *Patrick Kehn*
Air Force Research Lab: *Lucas Miller*
AK Steel: *Jacob Martin*
AkzoNobel: *Paul Lisska*
AMETEK: *Frances Lin*
Anheuser-Busch: *Derrik Thomin*
Anomatic Corp: *Jacquelyn Daugherty, Eryk Kennedy, Sally Raudabaugh, Jason Romine, Kevin Stewart*
Ashland Inc: *Jackeylyn Miozzi, Oliver Weaver*
Battelle Memorial Institute: *Nicholas Blum, Regina Gallagher*
BP: *Mitchell Guenther*
Braskem America: *Tyler McCullough*
Briskheat Corp: *Caleb Colvin*
Campbell Soup Co: *Claire Basham, Ashley Fortman, Thomas Getz, Matthew Sands*
Capital One: *Kyle McLaughlin*
Capital Resin Corp: *Costanza Franceschini, Theresa Lewis*
Cargill Inc: *Connor Barber, Hammdy Beydoun, Giovanni Nardi*
CDM South: *Chelsea Thomas*
Chemical Abstracts Service (CAS): *Tiffany Colon, Sarah Drosos, Anthony Genter, Austin Hounshell*
Cincinnati Sub-Zero Products Inc: *Nicholas Singstock*
Cleveland Clinic: *Anand Rajan*
Clorox Co: *Chloe Higgins*
Construction Resources Inc: *Daniel Glazer*
Cooper Tire & Rubber Co: *Eric Farell, Lisa Steffan*
DNV GL: *Adaeze Eneli*
Dover Chemical Corp: *Kain Fadeley*
Dow: *Loan Bui, Michael Jindra, Kacie LaBrecque, Janee McNeil, Michael Turco, Lauren Wilhelm*
Dow AgroSciences: *Samantha Philips*

Dow Corning Corp: *Emily Hoff, Michael Jindra, Jonathan Ruffley*
Dupont: *Taylor Angle, Richard Bannerman, Cody Park, Benjamin Whiteman*
Entrotech: *Nicholas Collinger, Jordan Lucki*
ExxonMobil: *Hussein Alkhatib, Erica Brackman*
Franklin International: *Jacob Buszek, Elizabeth Williams*
General Electric Corp: *Bryan Brewer, Amanda Broseus, Benjamin Kasper, Jason Su*
General Mills: *Natasha Khawaja, Nicole Pangilinan*
General Motors: *Jordan Boon, Kennan McNamara*
Georgia-Pacific: *Elizabeth Bransford, Bryan Gemler*
Geotechnical Consultants: *Lucas Miller*
Givaudan: *Mohammad Hashmi*
Goodyear Tire & Rubber Co: *Christina Anderson, Alison Logan, Lewis Moser*
Hexion: *Zebulon Bell, Michael Denney, Scott Johannes, Mitchell Wolfarth*
JBT Foodtech: *Corey Kane*
JM SMucker Co: *Christopher Gearheart*
Kadant Black Clawson: *Matthew Tyler*
Kimble Companies: *Trevor Wendt*
LaFarge North America: *Emily Diersing*
Lake Shore Crytronics: *Kyle McLain*
L'Oreal USA: *Sarah Lyons*
Lubrizol Corp: *Mary Mullinger, Thomas Rudibaugh*
Mahoning County (OH) Board of Health: *Robert Marsch*
Marathon Petroleum Corp: *Jordan Boon, Alison Boyd, Sarah Halmi, Mohannad Hamayel, Adam Kalivoda, Mitchell Louis, Radhika Madhavan, Ibrahim Musa, Corinne O'Donnell*
Materion: *Clayton Gallagher*
Matrix Technologies Inc: *Caitlin Parke*
Meritor WABCO: *John Brandon*
MK Morse Co: *Aaron Alexander*
Nestle USA: *Alejandra Garcia-Fuentes, Vidhi Patel*
NexTech Materials: *Paul Gruenbacher, Vidhi Patel*
Niagara Bottling LLC: *Stephanie Christel*
Niagara County (NY) Health Dept: *Anthony Zaccarella*
Nikon Metrology Inc: *Katie Jones*
NSL Analytical Services Inc: *Daniel Businger*
Ohio State University: *Nicholas Blum, Stephanie Chastang, Stephanie Christel, Eileen Elliott, Philip Kester, Deepthi Koralla, Brian Mog, Alexandria Pickett, Colin Przybylowicz, David Sabol, Samantha Stephens, Alvin Taylor*
Optimed Research LTD: *Sandra Lee*
pH Matter LLC: *Greg Bulger, David D'Lima, Victoria Wilson*
PharmaForce Inc: *Anthony Hoover*
Philips: *Robert Kirian*
PolyOne Corp: *Matthew Michalski*
PPG Industries: *Jane Whitten*
Procter & Gamble: *Tiffany Colon, Carmen Keeton*
Rockwell Automation: *Joseph Gallagher, Jessica Stibora*
RoviSys: *Michael Guynn*
RTI International: *Mark Brooks*
Scotts Miracle Gro: *Daniel Adkins, William Drees, Cody Fox*

Shell: *Derek Kasper, Matthew Kimmel*
Sherwin-Williams Co: *Brian Fredman*
Simonton Windows: *Bradley Barrett*
Sirrus: *Matthew Ellison, Michael Hurd*
Stanley Electric US: *Mitchel Garrison*
Swagelok Co: *Matthew Rees*
Terumo Cardiovascular Systems Corp: *Kristi Olesik*
Texas A&M: *Liza Dias*
Thomas & Betts: *Robert Sheehy*
Thyseenkrupp Elevator: *Colin Murray*
Toyota: *Daniel Bonamer, Faith Carver, Mitchell Gower*
Unilever: *Matthew Van Avermaete*
Valero: *Matthew Kimmel, Scott Reinhart, Natalie Sample, Justin Thomas*
Valspar: *Alexandria Chen, Brandon Isaacs*
Veyance Technologies Inc: *Trent Daubenmire, Marisa McCaffrey*
Wright-Patterson Air Force Base: *Emily Baur, Miranda McGrothers*
Youngstown Waste Water Treatment Plant: *Robert Marsch*

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2014-2015 Undergraduate Scholarship Information

A total of 147 students were awarded undergraduate scholarships in the Chemical & Biomolecular program. The vast majority of those students were current majors, although a small amount went to recruit high ability first year students as well. A total of \$182,600 was awarded to students heading into the 2014-2015 school year. The average award was \$1242 this year compared to \$1114 the previous year.

Trends in data from financial aid show that the number and amount of both student and parent loans have been increasing. Both Ohio State tuition and University financial support have increased yearly. However, since the increase in scholarship support hasn't been able to keep up with tuition increases, engineering students and their families have had to increase their debt levels to cover the additional costs. In the Chemical & Biomolecular Engineering Department, department scholarships from alumni and corporate donors help defray a small part of the loans burden for many of our students.

Department scholarships are determined mainly by need, however, when a scholarship specifies that a student's merit be considered, both merit and need are taken into account. We thank those of our alumni who have established scholarship endowments for this purpose as well as our corporate donors who provide scholarships on an annual basis.

Robert W. Adams Memorial Scholarship

Barger, Mark
Miller, Sean
Ruffley, Jonathan
Traine, Samantha

Harold W. Almen Scholarship

Alkhatib, Hussein
Kehn, Patrick
Kopechek, David
Nowicki, Kevin
Rodriguez, Lucas
Vasquez, Gabrielle
Volchko, Nathan
Zins, Zachary

Paul Bates Scholarship

Boon, Jordan Tyler
Claytor, Alexandra Renee
Herron, Jacquelynn
Johnson Jr., Keith Allen
Peters, Jasmine

The George S. Bonn Scholarship

Cheng, Zezhen

Na, Jing

Pan, Jie

Shi, Xutao

Wang, Ziwei

Wen, Yunhan

Wong, Ka Heen Gary

Yuan, Feibi

J.R. Boothe Scholarship Fund

Zins, Zachary Paul Eskay

William I. Burt Memorial Scholarship Fund

Amatulli, Ryan

Anderson,Christina Lucille

Bartholomew,Mark James

Bonamer,Daniel George

Brackman,Erica Lynn

Braun,Nicholas Aloysius

Broseus,Amanda May

Cambraia,Jody

Campo,Rachael Victoria

De Leon Jr.,Rafael Estuardo

DeVita,Derek James

Fouasnon,Joshua Benjamin

Forkey,Jarrett Reno

Hofacre,Kyle Paul

Jokerst,Mitchell Allen

Justus,Nicholas Ronald

Kane,Corey Scott

Kimmel,Matthew Allen

Kolliopoulos,Panayiotis Konstantinou

LaBrecque,Kacie Nicole

Maltry,Kathryn Grace

McHugh,Marissa Kathleen

Neu,Adam Russell

Newmyer,Andrew Grant

Pangilinan,Nicole Malto

Sandvik,Peter Olaf

Schneider,Kyle Phillip

Schwertner,Alexandra Leona

Sieradzki,Edward Jacob

Taylor,Alvin Lebrandon

Thomas,Chelsea Denese

Turco,Michael John

Wegman,Kevin Robert

Whiteman,Benjamin Charles

Wood,Austin James
Zaccarella,Anthony Michael

The James F. and Patricia C. Dietz Engineering Scholarships Fund

Fletcher,Charles C
Young,Gabrielle Marie
Zierden,Hannah Christine

Dorothy J. & Herbert L. Fenburr Scholarship

Brasile,Bryan William
Braswell,Nathan Brian
Bresson,Julianne Noel
Brewer,Bryan Joe
Carver,Faith Anne
Cohen,William Fredric
Davies,Sean Michael
Empfield,Abbey Mae
Forkey,Jarrett Reno
Gearheart,Christopher Aaron
Gerges,George Anthony
Guan,Gar Wai
Herron,Jacquelynn Lauren
Homsy,Michael Louis
Inoue,Matthew Kenta
Khawaja,Natasha
LaBrecque,Kacie Nicole
Logan,Alison Nicole
Luo,Wei
McCaffrey,Marisa Anne
McLain,Kyle Robert
Molitoris,Kathryn Marie
Pangilinan,Nicole Malto
Peterson,Gabriel Kaesy
Qian,Kyle Yonglun
Sample,Natalie Faye
Satija,Ayesha
Sims,Jesse Robert
Streng,Maria Anne
Strutz,Jonathan Robert
Sutherland,Aaron James
Thompson,Zechariah David
Westfall,Jesse James
Withers, Adam

David H. George Chemical Engineering Scholarship

Curtis, Emma Grace
Damage, Jacob Michael
Lyons, Sarah
O'Malley, Quincy Maureen
Rebillot, Ryan Thomas
Walsh, Austin Kelley

Allan I. Gordon Undergraduate Scholarship for Study in Biochemical Engineering

Chen, Alexandria

Todd David Harris Memorial Scholarship

Kimmel, Blaise

William R. & Doris M. Harris Scholarship in Chemical Engineering

Colley, Joshua Bruce
Guenther, Mitchell Douglas
Hamayel, Mohannad Mutee
Lee, Jason J
Louis, Mitchell Alan
Meilstrup, Jordan Andrew

Milton & Karen Hendricks Scholarship

Chen, Angela

Smith E. Howland Scholarship

Gower, Mitchell

The Samuel S. and Grace Hook Johnston Memorial Chemical Engineering Scholarship Fund

Collinger, Nicholas

Webster B. Kay Scholarship in Chemical Engineering

Bui, Loan
Higgins, Chloe

Lubrizol Foundation Scholarship

Falascino, Eric
Gallagher, Regina

The Tom and Gail Reardon Chemical Engineering Scholarship Fund

Brown, Josh

The Howard R. Steele Memorial Scholarship in Chemical Engineering

Baldwin, Christopher David
Boone, Sierra Taylor
Froats, Joshua Michael

Jorge, Anthony Vasco
Landis, Matthew John
Parish, Luisa Marie
Whisler, Aran Richard

Aldrich Syverson Scholarship

Kimmel, Blaise
Young, Gabrielle

H. Richard Unkel Chemical Engineering Class of 1941

Baker, Hillary
Gauthier Jr., Joseph Allen
Kriner, Robert Joseph
Whitten, Jane Amelia

Harry B. Warner Scholarship

Butler, Brittney

William H. Whirl Scholarship

Goldenbagen, Kennedy

The Michael D. Winfield Scholarship

Businger, Daniel

Fred H. Winterkamp Memorial Scholarship

Coates, Zachary Alan
Czebatul, Nathaniel Raymond
Hudson, Paul Wesley
Lawver, Angela Carol
Weisgarber, Ethan Lloyd