Mission Statement

“Our mission is to provide our students and employer partners individualized opportunities to enhance success and opportunity in the workplace environment through relevant and challenging assignments that will result in the graduation of excellent engineers and scientists.”

Table of Contents

Co-op Program - Year in Review.......................................................... 1
Outstanding Co-op Employer of the Year*.............................................. 2-3
Outstanding Co-op Student of the Year*................................................ 4
Participating Co-op Companies.............................................................. 5-7
Co-op Participants by Discipline & Demographics................................. 8
Undergraduate Chart – by Discipline...................................................... 9
Graduate Chart – by Discipline.............................................................. 10
New Placement Demographics.............................................................. 11
Applicant Data & Placement Rates......................................................... 12
Salary Survey......................................................................................... 13
Co-op Participation Among Graduating Classes................................. 14-15
Co–op Alumni Placement Report............................................................ 16
Staff and Advisors................................................................................. 17

* The awards were presented at the annual Cooperative Education Reception held on December 5, 2014 at the Pittsburgh Athletic Association Oakland.
The co-op program had another strong year. The year ended with a total of 1,025 active students, including 985 undergraduates and 40 graduate level co-ops, which is a 6.4% increase over last year's rate of participation. Numbers from the previous year included 935 active undergrads and 28 graduate level co-ops. New placements for the year rose from 377 new placements in 2013-2014, to 415 students in 2014-2015. Our company participation rose to over 285 employers. The program also demonstrated strong numbers in the diversity of the program participants, particularly an increase in female participation.

Our post-graduate survey of BS level students entering the workforce reported that 48% of the co-ops received full-time offers from their companies, and 83% of those students accepted. The average starting salary for a co-op who graduated and entered the workforce was $63,920. The average GPA of a graduate who participated in co-op was 3.428. The report shows 94% placement of the co-op engineering graduates, based on a 92% response rate. There was 100% placement among computer engineering and electrical engineering graduates who responded to the survey. In bioengineering, 10 of the 11 graduates were placed.

Our Co-op Employer of the Year for 2014 was Westinghouse Electric. Westinghouse has been a long term partner to Pitt's co-op program as well as a partner and resource to various departments within the Swanson School. Pitt's Co-op Student of the Year was Gian-Gabriel Garcia, who went on to become the American Society of Engineering Education's Intern Student of the Year for 2014. Gian was an outstanding co-op for Universal Electric, and a stellar intern for Eaton during the summer of 2014. He was involved in research at the University and is attending graduate school to earn a PhD.

Our goals for the upcoming year will be to increase our number of student and employer participants in all engineering fields while retaining the quality of our program.
Outstanding Co-op Employer of the Year for 2014
Westinghouse

Joe Kennedy, Director of Talent Sourcing, accepts the 2014 Employer of the Year award from Gerald D. Holder, PhD, US Steel Dean of Engineering. Also in attendance at the co-op dinner from Westinghouse: Sam Algeo and Alaina Elias, former co-ops and current engineers, Diane DiCenzo and Cristina Stinelli, Human Resources, and John Klimek, Eric McAllister, Nicholas Salkeld and Todd Sutton.

Our first co-op began with Westinghouse in the Fall of 1998. Since then, 82 students have accepted co-op positions with Westinghouse, spanning several degree areas. Many have gone to work full time with Westinghouse. Westinghouse was chosen for the sustainability and true partnership they have shared with the University of Pittsburgh. Another contributing factor is the true commitment they have made to our program. Despite having a large intern program, Westinghouse has continually stayed true to the co-op concept for all of those students they have hired from our program. Our co-ops with them enjoy meaningful work and thrive professionally. Westinghouse has also been a strong partner not just to co-op, but to the entire Swanson School of Engineering, supporting our nuclear program, our facilities, and our students.
Previous Employer of the Year Winners

1991  Delphi Packard Electric
      Corporation/GM
1992  Pennsylvania Department of
      Transportation
1993  J&L Specialty Steel
1994  USAirways
1995  Nova Chemical Corporation
1996  Eaton/Cutler-Hammer
1997  Bayer Corporation
1998  Westinghouse Electric Company, EMD
      (Curtiss Wright)
1999  ANSYS Incorporated
2000  United Parcel Service
2001  AK Steel
2002  Mine Safety Appliances Company
2003  H.B. Maynard (Accenture)
2004  American Bridge Corporation
2005  Dupont Chemical Solutions Enterprise
2006  Valspar
2007  Medrad
2008  FedEx Ground
2009  Advanced Integration Group, Inc. (AIG)
2010  Vocollect, Inc.
2011  FirstEnergy Corporation
2012  Siemens
2013  Eaton
Gian-Gabriel Garcia moved to the United States from the Philippines when he was four years old. His parents told Gian and his three siblings that all were expected to study hard and earn a good education. From early on, Gian appreciated learning and a close family life.

During high school, Gian participated in a project that was funded by NASA and that is where he developed an interest in engineering. At Pitt, Gian chose industrial engineering due to the breadth of interests the field held for him.

At the University of Pittsburgh, Gian participated in both the co-op and intern programs. Gian was our first co-op with Universal Electric and since that time the company has hired several other students due to his outstanding work contributions.

After completing the co-op, Gian was accepted as an intern with Eaton in Horseheads, NY. As an intern, Gian excelled beyond the expectations and goals that Eaton set for him. In fact, he was able to create a visual basic tool that streamlined the analysis process; his contributions left “a lasting impression on the company location” as his employer, Stephen Mayo, wrote in his nomination.

Outside of class, Gian has been a consistent leader and contributor. He is involved in SHPE, NSBE and Excel, which is a program dedicated to the success of engineering students who face various challenges. Gian has served as a peer advisor and an undergrad teaching assistant.

Gian was the lone recipient of the UPS Minority Scholarship, awarded through the Institute of Industrial Engineers (IIE), and was also awarded the Eaton Multicultural Scholarship. Recently, Gian was awarded the Pitt Chapter IIE Outstanding Senior.

Gian has been thoroughly involved in research while a student at Pitt. He is involved in a vaccine modeling initiative that aids in combatting the high wastage rates within vaccine supply chain in third world countries due to issues like chronic refrigeration difficulties.

In addition to all of this, Gian has also managed to spend two weeks in Uruguay studying supply chain and international implications and their effect on business.

Gian has decided to earn a PhD in Industrial Engineering, focusing on healthcare-related research applications and would ultimately like to teach. Gian-Gabriel Garcia exemplifies the most outstanding qualities one could hope for, not just in an intern or co-op engineer, but in a human being. He is someone who is going to make a difference in our world.
Engineering Cooperative Education Program
Participating Companies 2014-2015

4 Moms/Pittsburgh, Pa  
ABB Inc/Cleveland, OH  
Accenture, Inc./Greentree, PA  
Acutronic USA Inc/Blawnox, PA  
Aerotech/Blawnox, PA  
AIG Advanced Integration Group/McKees Rocks, PA  
Air Products & Chemicals/Allentown, PA  
AK Steel/Butler, PA  
AKJ Industries/FT. Myers, FL  
Alcoa*  
AllClad Metalcrafters/Canonsburg, PA*  
Allegheny Coatings/St. Marys, Pa*  
AL Neyer, LLC*  
ALung/Pittsburgh, Pa*  
Amazon/Seattle, WA*  
American Airlines  
American Bridge Corporation  
American Contracting & Environmental Services/laurel, MD  
ANSYS, Inc./Canonsburg, PA  
Arcadis/Seven Fields, PA  
Ashland Chemicals/Boston, MA*  
ATI/Allegheny Ludlum/Brackenridge, PA  
Battelle/Columbus, Ohio*  
Baxter Healthcare/round Lake, IL*  
Bayer Consumer Healthcare/Indianola, Pa  
BD Life Sciences/Franklin Lakes, NJ*  
Bentley Systems/Exton, PA  
Bettcher Industries/Vermilion, Ohio  
Black Box/Lawrence, Pa  
Blue Coat/Boxborough, MA*  
BMW/Spartanburg, SC  
BNY Mellon/Pittsburgh, Pa & NYC  
Bombardier/West Mifflin, PA  
BoozAllenHamilton/Washington, DC  
Boston Scientific/Boston, MA  
Brayman Construction/Saxonburg, PA  
BridgeFusion/Murrysville, Pa  
Bristol Myers/Devens, MA*  
Brookville Equipment Co./Brookville, PA  
Buckman Labs/Honey Brook, Pa*  
Bunting Architectural Metals/Verona, PA  
C3 Controls/Beaver, Pa  
Caliber Contracting Services/Pittsburgh Pa*  
Cameron Measurement Systems/Pgh, Pa  
Carbon Steel Inspection/Pgh, Pa  
Cardo ChemRisk/Pittsburgh, Pa  
Cervis/Cranberry Twp, Pa  
ChemAdvisor  
Chester Engineers*  
City Brewing Company/Latrobe, Pa  
Civil & Environmental Consultants  
Cleaveland/Price/Irwin, Pa  
Cohera Medical/Homestead, Pa  
Columbia Gas/Canonsburg, Pa  
Compunetix/Monroeville, PA  
Connors Group/Greensburg, Pa  
Covestro LLC formerly Bayer Material Science LLC/Pittsburgh, Pa  
Crane Company/TX, CA,IL,OH  
Crayola/Easton, Pa  
Creehan & Company/Canonsburg, Pa*  
Crown Castle/Canonsburg, Pa  
Curtiss-Wright EMD  
Deloitte/Pittsburgh, Pa*  
DePuy/J & J/Westchester, Pa*  
Diebold/Canton, Ohio  
DiGioia Gray & Associates/Monroeville, Pa*  
Disney World/Orlando, FL  
Dow Chemical/Midland, MI  
Draeger/Pittsburgh, Pa  
DSM Medical/Valley Forge, Pa  
DTE Energy/Pittsburgh, Pa  
DTE Energy/Detroit, Michigan  
E.I. Dupont/Newark, DE  
E.I. Dupont/Bell, WV  
Eaton Electric/PA, WI,NY,NC,IL  
ElectroMechanical Engineering Associates/Pittsburgh, Pa  
Elford, Inc/Canonsburg, Pa*  
Ellwood Group, Inc.  
Emerson Process Management/Pittsburgh, Pa  
Emerson Climate Technologies/Sidney, Ohio  
EN Engineering/Moon Twp, Pa*  
Encentiv/Pittsburgh, Pa  
Energy Management Consultants/Carlisle, PA  
Epic Metals/Rankin, Pa  
Equitable Resources/Pittsburgh, Pa  
Estee Lauder/Long Island, NY  
Ethicon Endo- Surgery/Cincinnati, OH  
Ethicon/Somerville, NJ  
EverPower Wind Holdings/Pittsburgh, Pa  
Excelea Heath Care/Greensburg, Pa
ExxonMobil/Fairfax, Va
Federated Investors/Pgh, Pa
FedEx Ground Corporate
FedEx Ground Facilities
Fenetech/Aurora, Ohio*
First Energy Corporation/Akron, Ohio
First Energy Nuclear Corporation
GAI Consultants
Genco Supply Chain Solutions
G.E. Aviation/Cincinnati Ohio
G.E. Converteam/Pittsburgh, Pa
G.E. Transportation/Erie, PA
G.E. Power/SC
General Cable/Altoona, Pa
Genentech/San Francisco, CA
Giant Eagle, Inc.
GlaxoSmithKline/Philadelphia, Pa;
Rockville, MD and Pittsburgh, Pa
Great Lakes Construction/Hinckley, Ohio
Grunley Construction/Maryland
Gulfstream Aerospace/Savannah, Ga
Harley Davidson/York, Pa
Hendrickson Intl/Canton, Ohio
Heraeus/New Castle, Pa
Hershey Chocolates USA/Hershey, Pa
Highmark/Pittsburgh, Pa
Honda of America/Marysville, Ohio
Human Engineering Research Lab
i+icon/Pittsburgh, Pa
IBACOS, Inc/Pittsburgh, Pa
Immunetrics/Pgh, Pa
Independent Can/Belcamp/MD*
Independence Excavating/Independence, Ohio
Industrial Scientific/Oakdale, PA
Infineum/Linden, NJ
Intel Corp/Folsom, CA
Inteligistics/Pittsburgh, Pa
Invensys/Siemens/Pittsburgh, Pa
IQ Inc.
Jacobs/Morristown, NJ
James Construction/Carnegie, PA
JB Fay/Pittsburgh, Pa
Johnson & Johnson/NJ
K & M Wireless
Kennametal Inc./Latrobe, Pa
KB Systems/Philadelphia, Pa
KI SheetMetal/Pittsburgh, Pa
Kiewit Construction Company/NJ
Kokosing Construction/Fredericktown, Ohio
Kolmar Laboratories/Mifflord, Pa*
Koppers/Pittsburgh, Pa
Langan Engineering/Elmwood Park, NJ
Lanxess
Linde/Blue Bell, Pa*
Logistics Management Institute/McLean, VA
Lord Corporation/Erie, Pa
Lubrizol Corporation/Wyckliffe, Ohio
Lycoming Engines/Williamsport, Pa
Marathon Oil/Findlay, Ohio
Mascaro Construction
Massaro Construction
McConway/Torley
McNeil Consumer Healthcare/Ft. Washington, PA
McNeil Consumer Healthcare/Littitz, PA
Metso Minerals/Canonsburg, Pa
Micro-Coax/Pottstown, Pa*
Mine Safety Appliances / Cranberry, PA
Mine Safety Appliances / Murrysville PA
M*Modal/Pittsburgh, Pa*
Moen/Cleveland, Ohio
Moog/Buffalo, NY
Morris Knowles & Associates/Delmont, PA
Mosebach/Pittsburgh, Pa
MS Consultants/Pittsburgh, Pa
NASA/Johnson Space Center/Houston, TX
NASIC/Dayton, Ohio*
National Security Agency/MD
Naval Surface Warfare Center/Philadelphia,
PA/Bethesda, MD
Nestle/Chicago, IL*
NetApp/Cranberry Twp, Pa
Net Health/Pittsburgh, Pa*
Nicholson Construction/Bridgeville, Pa*
NIOSH/Pittsburgh, Pa*
Norfolk Southern/Norfolk, VA
North American Forgemasters/New Castle, Pa*
Northeastern University/Boston, MA*
Nova Chemicals/Monaca, PA
O’Donnell Consulting/Bridgeville, Pa
Old Castle Materials/Annville, Pa
OmNova Solutions/Akron, Ohio
Omnex/Pittsburgh, Pa*
Parker Hannifin/Irwin, Pa
PA Dept of Transportation / Bridgeville
PA Turnpike Commission/Harrisburg
PCC Airfoils/Minerva, Ohio
PCC Special Metals/New Hartford, NY
PCL Civil Constructors/Issaquah, WA
Penske Truck Leasing/Reading, Pa
Pepco Holdings/Newark, DE
Philips Medical/Cleveland, Ohio
Philips Respironics/Murrysville, Pa
Pinnacle Heath/Reading, Pa*
Pittsburgh Water & Sewer Authority
P.J. Dick Corporation/Pittsburgh, Pa
PPG/Pittsburgh, Pa*
Polyone/Manitowoc, WI
Proscia/Haverford, PA
PTC Alliance/Wexford, PA
QinetiQ-NA
Quest Diagnostics/Greentree, Pa
Raudenbush Engineering
RDC Inc./Bridgeville, Pa
Rhodes Group/Pittsburgh, Pa
Richard Goettle, Inc./Pgh, Pa
Robinson Fans/Zelienople, PA
Rockwell Automation/Cleveland, Ohio
Rogers Corporation/Woodstock, CT
Rolls-Royce/Pittsburgh, Pa
RPA Associates/Wyomissing, Pa*
RTI International Metals/Niles, Ohio
Sabra Wang/New Jersey
Sam’s Club Innovations/Fayetteville, AK
Savvior Technology Solutions
SCA Technologies/Greentree, Pa
Schroeder Industries LLC/Leetsdale, PA
Select International/Pittsburgh, Pa*
Siemens Power Generation/Penn Hall, PA
Sonneborn/Petrolia, Pa*
Special Metals/PCC/NY*
Sunoco/Philadelphia, Pa
Tait Towers
TE Connectivity/Eatontown, NJ*
Tetratech NUS
ThermoAnalytics, Inc./Calumet, MI
The Walsh Group/Canonsburg, Pa
ThorntonThomassetti/Philadelphia, Pa
Timesys Corporation/Pittsburgh, Pa
Tindall/Spartanburg, SC
Toyota/Ann Arbor, Michigan
Transtar/McKees Rocks, Pa
Trumbull Corporation/Pittsburgh, PA
Turner Construction/Pittsburgh, Pa
Ulliman Schutte/Miamisburg, Ohio
United Airlines/Houston, TX
Universal Electric/Canonsburg, Pa
Universal Stainless/Bridgeville, PA
United Parcel Service/New Stanton PA
UPMC
US Department of Labor/Pittsburgh, Pa*
UTC Aerospace*
Valspar/Rochester, PA
Venture Engineering/Pittsburgh, Pa
Veolia Water/Pittsburgh, Pa
Verizon Wireless/Bridgeville, PA
Veterans Engineering Resource Center
Virtual Officeware/Pittsburgh, Pa
Vocollect by Honeywell/Monroeville, Pa
Volvo Construction Equipment/Shippensburg, PA
Volvo/Haeger, MD
Walgreens/Carnegie, Pa
Westinghouse Electric Co./Cranberry Twp, PA
Westinghouse Specialty Metals/Blairsville, Pa
Whiting Turner/Baltimore, MD
World Kitchen/Charleroi, Pa
Working Buildings/Atlanta, GA
Zimmer/Warsaw, Indiana*
Zoll Lifecor/Blawnox, PA

Graduate Level Employers

Advanced Micro Devices/Ft. Collins, Co
Alcoa Technology/Pittsburgh, Pa
Ansys/Canonsburg, Pa
Broadcom/San Diego, CA
Century Link/Monroe, La
Code Force/Alpharetta, GA
EnerNex/Knoxville, TN*
Ericsson/Plano, TX*
Futurewei Technologies*
HCA Healthcare/Houston, TX*
Hewlett Packard/Palo Alto, CA
TTS/Dallas, TX
Grant Street Group/Pgh, Pa
HUF North America*
JSW Steel/Baytown, TX
Lucas Systems/Wexford, Pa
Management Science Associates/Pgh, Pa
Mathworks*
Micron Technology*
Mylan Labs/Canonsburg, Pa*
PA Dept Transportation/Bridgeville, PA
Procter & Gamble, Cincinnati, Ohio*
Rizzo and Associates
Samsung/Richardson, TX
Siemens Energy/Penn Hall, Pa
Simio/Sewickley, Pa
SJ Consulting/Sewickley, Pa
Source Fire/Cranberry, Twp, Pa
Tech Team
Telecom Technology/Frisco, TX
Uber/Pittsburgh, Pa*
Unisci/ Greenville, SC
Virtela Technology/Denver, CO*

*Denotes new employer for 2014-2015
### Co-op Participants by Discipline

<table>
<thead>
<tr>
<th>Department - Undergraduate</th>
<th>2013-2014</th>
<th>2014-2015</th>
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<tbody>
<tr>
<td>BioEngineering</td>
<td>34</td>
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<tr>
<td>Chemical Engineering</td>
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<tr>
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<tr>
<td>Computer Engineering</td>
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<tr>
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<tr>
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<tr>
<td>Electrical Engineering</td>
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<tr>
<td>Engineering Physics/Science</td>
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<td>7</td>
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<tr>
<td>Industrial Engineering</td>
<td>138</td>
<td>151</td>
</tr>
<tr>
<td>Materials Science &amp; Engineering</td>
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<td>13</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>222</td>
<td>234</td>
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<tr>
<td>Mechanical Engineering Technology</td>
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</tbody>
</table>

**Total Undergraduate Participants** | 935 | 985 |

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<tr>
<th>Department - Graduate</th>
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<th>2014-2015</th>
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<tr>
<td>MS – Civil Engineering</td>
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<tr>
<td>MS – Computer &amp; Electrical Engineering</td>
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<td>2</td>
</tr>
<tr>
<td>MS – Industrial Engineering</td>
<td>9</td>
<td>16</td>
</tr>
<tr>
<td>MS – Information Science</td>
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<tr>
<td>MS – ME/MS</td>
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</tr>
<tr>
<td>PhD – Civil &amp; Environmental Engineering</td>
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**Total Graduate Participants** | 27 | 40 |

**Total Participants** | 963 | 1025 |

### Participant Demographics

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>963 Participants</td>
<td>1024 Participants</td>
</tr>
<tr>
<td>230 Female = 22%</td>
<td>281 Female = 27.4%</td>
</tr>
<tr>
<td>733 Male = 78%</td>
<td>744 Male = 72.6%</td>
</tr>
<tr>
<td>71 Asian = 7.3%</td>
<td>55 Asian = 5.3%</td>
</tr>
<tr>
<td>53 Black = 5.5%</td>
<td>45 Black = 43.9%</td>
</tr>
<tr>
<td>825 White = 85.8%</td>
<td>888 White = 84.7%</td>
</tr>
<tr>
<td>14 Hispanic = 1.4%</td>
<td>17 Hispanic = 1.6%</td>
</tr>
</tbody>
</table>

Graduate Level Co-op: 40 Asian = 100%
## Co-op Undergraduate Students 2014-15

<table>
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<td>Mechanical Engineering</td>
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<td>134</td>
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<td>Electrical Engineering</td>
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<td>86</td>
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<td>Chemical Engineering</td>
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<tr>
<td>Computer Engineering</td>
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<td>23</td>
<td>23</td>
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<td>41</td>
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<tr>
<td>Engr Physics/Science</td>
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<tr>
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<td>Information Technology</td>
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<td><strong>Total</strong></td>
<td><strong>662</strong></td>
<td><strong>740</strong></td>
<td><strong>740</strong></td>
<td><strong>797</strong></td>
<td><strong>936</strong></td>
<td><strong>985</strong></td>
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New Placements Demographics

New Placements – Total 415
2014-2015

<table>
<thead>
<tr>
<th>391 New Placements - Undergraduate</th>
<th>24 New Placements - Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>272 Male = 69.5%</td>
<td>18 Male = 75%</td>
</tr>
<tr>
<td>119 Female = 30.4%</td>
<td>6 Female = 25%</td>
</tr>
<tr>
<td>340 Caucasian = 86.9%</td>
<td>100% Asian</td>
</tr>
<tr>
<td>21 Black = 5.3%</td>
<td></td>
</tr>
<tr>
<td>24 Asian = 6.1%</td>
<td></td>
</tr>
<tr>
<td>6 Hispanic = 1.5%</td>
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</table>

New Placements by Discipline - Undergraduate

<table>
<thead>
<tr>
<th>Department</th>
<th>2013-2014</th>
<th>2014-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioengineering</td>
<td>14</td>
<td>24</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>63</td>
<td>71</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>48</td>
<td>43</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>32</td>
<td>45</td>
</tr>
<tr>
<td>Computer Science</td>
<td>23</td>
<td>14</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>35</td>
<td>27</td>
</tr>
<tr>
<td>Engineering Physics/Science</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>58</td>
<td>60</td>
</tr>
<tr>
<td>Materials Science &amp; Engineering</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>83</td>
<td>97</td>
</tr>
<tr>
<td>Mechanical Engineering Technology</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>Total Participants</td>
<td>376</td>
<td>392</td>
</tr>
</tbody>
</table>

New Placements By Discipline - Graduate

<table>
<thead>
<tr>
<th>MS-MEMS</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS-IS</td>
<td>3</td>
</tr>
<tr>
<td>MS-EE</td>
<td>2</td>
</tr>
<tr>
<td>MS-IE</td>
<td>11</td>
</tr>
<tr>
<td>PhD-EE</td>
<td>3</td>
</tr>
<tr>
<td>PhD-Chem</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>24</td>
</tr>
</tbody>
</table>
## APPLICANT DATA
2014-2015

Swanson School of Engineering  
University of Pittsburgh at Johnstown  
Department of Computer Science  
Department of Information Science

658 Active Applicants  
415 Placed - 63.06% Placement Rate  
449 Offers  
68.23% Offer Rate  
13.6% Seeking January Placement

### Placement by Department:

<table>
<thead>
<tr>
<th>Co-op Applicants for 2014-2015</th>
<th>Applied</th>
<th>Placed</th>
<th>Offers not Accepted</th>
<th>Resigned</th>
<th>Reported Internship or research</th>
<th>Looking for January 2016</th>
<th>Percentage with offers</th>
<th>Percentage who accepted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioengineering</td>
<td>61</td>
<td>24</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>15</td>
<td>41%</td>
<td>39%</td>
</tr>
<tr>
<td>Chemical</td>
<td>154</td>
<td>71</td>
<td>8</td>
<td>42</td>
<td>3</td>
<td>41</td>
<td>51%</td>
<td>46%</td>
</tr>
<tr>
<td>Civil</td>
<td>51</td>
<td>43</td>
<td>3</td>
<td>6</td>
<td>5</td>
<td>2</td>
<td>90%</td>
<td>84%</td>
</tr>
<tr>
<td>Industrial</td>
<td>76</td>
<td>60</td>
<td>2</td>
<td>10</td>
<td>4</td>
<td>5</td>
<td>81.5%</td>
<td>79%</td>
</tr>
<tr>
<td>CS</td>
<td>27</td>
<td>14</td>
<td>4</td>
<td>6</td>
<td>3</td>
<td>6</td>
<td>67%</td>
<td>56%</td>
</tr>
<tr>
<td>Computer</td>
<td>68</td>
<td>45</td>
<td>5</td>
<td>12</td>
<td>4</td>
<td>11</td>
<td>74%</td>
<td>66%</td>
</tr>
<tr>
<td>Electrical</td>
<td>37</td>
<td>27</td>
<td>1</td>
<td>8</td>
<td>2</td>
<td>2</td>
<td>76%</td>
<td>73%</td>
</tr>
<tr>
<td>E Science</td>
<td>3</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>66%</td>
<td>66%</td>
</tr>
<tr>
<td>Mechanical</td>
<td>130</td>
<td>97</td>
<td>9</td>
<td>26</td>
<td>2</td>
<td>7</td>
<td>82%</td>
<td>75%</td>
</tr>
<tr>
<td>Mechanical Technology</td>
<td>4</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>75%</td>
<td>75%</td>
</tr>
<tr>
<td>Materials</td>
<td>8</td>
<td>6</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>76%</td>
<td>73%</td>
</tr>
<tr>
<td>MS MEMS</td>
<td>8</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>MS IS</td>
<td>3</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>MS CE</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>MS/PHD EE</td>
<td>5</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MS/PhD/CHE</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MS/E</td>
<td>18</td>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MS/MSE</td>
<td>1</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>659</td>
<td>416</td>
<td>34</td>
<td>139</td>
<td>26</td>
<td>90</td>
<td>68.28%</td>
<td>63.12%</td>
</tr>
</tbody>
</table>
SALARY SURVEY 2014-2015

Note: This survey does not represent overtime pay, travel expenses, tuition assistance, signing bonus, or housing assistance offered by some companies and governmental agencies.

Most Recent Salary Survey for Three-Term Period including
January, May and September 2015 Start Dates
(September 1, 2014 – August 31, 2015)

<table>
<thead>
<tr>
<th>UNDERGRADUATE</th>
<th>GRADUATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Students</td>
<td>Department</td>
</tr>
<tr>
<td>23</td>
<td>Bioengineering</td>
</tr>
<tr>
<td>66</td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td>38</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>38</td>
<td>Computer Engineering</td>
</tr>
<tr>
<td>13</td>
<td>Computer Science</td>
</tr>
<tr>
<td>21</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>2</td>
<td>Engineering Science</td>
</tr>
<tr>
<td>51</td>
<td>Industrial Engineering</td>
</tr>
<tr>
<td>5</td>
<td>Materials Science Engineering</td>
</tr>
<tr>
<td>84</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>4</td>
<td>Mechanical Engineering</td>
</tr>
</tbody>
</table>

343 Total # Undergraduate Students
$2956 Average Monthly Salary

24 Total # Graduate Students
$3713 Average Monthly Salary

<table>
<thead>
<tr>
<th>UNDERGRADUATE</th>
<th>GRADUATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioengineering</td>
<td>$1733-3814</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>$2253-6995</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>$2000-3414</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>$1733-3726</td>
</tr>
<tr>
<td>Computer Science</td>
<td>$2080-4334</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>$1733-3620</td>
</tr>
<tr>
<td>Engineering Science</td>
<td>$2774-3553</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>$1733-5165</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>$1733-4200</td>
</tr>
<tr>
<td>Materials Engineering Technology</td>
<td>$2774-3162</td>
</tr>
<tr>
<td>Materials Science Engineering</td>
<td>$2600-3120</td>
</tr>
</tbody>
</table>

During the 2014-2015 fiscal year, there were 50 students who fulfilled their second or third rotations with new employers. Although we counted them in our yearly statistics for placements, we did not include them in the salary survey for starting salaries as many employers use number of credits and previous experience in determining salary.
### Percentage of Co-op Participation Among Graduating Classes of August 2014, December 2014 and April 2015

<table>
<thead>
<tr>
<th>Department</th>
<th>Total Graduates 2013-2014</th>
<th>Co-op Participants</th>
<th>Completed Co-op</th>
<th>Did not complete Co-op</th>
<th>% Participation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioengineering</td>
<td>74</td>
<td>11</td>
<td>11</td>
<td>0</td>
<td>15%</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>97</td>
<td>37</td>
<td>28</td>
<td>9</td>
<td>38%</td>
</tr>
<tr>
<td>Civil &amp; Environmental Engineering</td>
<td>65</td>
<td>33</td>
<td>29</td>
<td>4</td>
<td>51%</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>54</td>
<td>29</td>
<td>27</td>
<td>2</td>
<td>54%</td>
</tr>
<tr>
<td>Engineering Science</td>
<td>7</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>14%</td>
</tr>
<tr>
<td>Engineering Physics</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>53</td>
<td>31</td>
<td>27</td>
<td>4</td>
<td>58%</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>67</td>
<td>37</td>
<td>32</td>
<td>5</td>
<td>55%</td>
</tr>
<tr>
<td>Materials Science Engineering</td>
<td>12</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>17%</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>128</td>
<td>65</td>
<td>56</td>
<td>9</td>
<td>51%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>557</strong></td>
<td><strong>246</strong></td>
<td><strong>211</strong></td>
<td><strong>35</strong></td>
<td><strong>44%</strong></td>
</tr>
<tr>
<td><strong>Total, not including Bioengineering</strong></td>
<td><strong>483</strong></td>
<td><strong>235</strong></td>
<td><strong>200</strong></td>
<td><strong>35</strong></td>
<td><strong>49%</strong></td>
</tr>
</tbody>
</table>

- 44% co-op participation including bioengineering
- 85% completion rate of three terms
- 49% co-op participation excluding bioengineering students
Percentage of Co-op Participation Among Graduating Classes of August 2014, December, 2014, and April 2015

- **Total Graduates Total Graduates Co-op Participants Co-op Participants Did Not Complete Co-op**

**483 Engineering Graduates* (August & December 2014; April 2015)**

- 49% participation rate for these terms**

- **235 Co-op Participants**

  - **200 Completed all 3 rotations**
  - 35 Participated, but did not complete 3 rotations
2014-2015 GRADUATING COOPERATIVE EDUCATION STUDENTS EMPLOYMENT SURVEY RESULTS

212/231 students (92%) responded to a post-graduate survey that asked: where did they complete their co-op rotations, if their co-op employer offered them a full-time position and if so, did they accept the position. If students did not accept a position with their co-op employer, the survey asked for information about their current employer, and all students were asked to provide their salary. Finally, students were asked if and where they were attending graduate school.

* 94% (202/212 students) are employed in engineering/technology and/or attending graduate school.

<table>
<thead>
<tr>
<th>FULL-TIME JOB OFFERS FROM CO-OP EMPLOYERS</th>
<th>FULL-TIME JOB OFFERS ACCEPTED BY STUDENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-2015 Graduates (155**)</td>
<td>45%</td>
</tr>
<tr>
<td>2013-2014 Graduates (156**)</td>
<td>48%</td>
</tr>
<tr>
<td>2014-2015 Graduates</td>
<td>83%</td>
</tr>
<tr>
<td>2013-2014 Graduates</td>
<td>83%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ATENDING GRADUATE SCHOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-2015 Graduates Total</td>
</tr>
<tr>
<td>2013-2014 Graduates Total</td>
</tr>
<tr>
<td>Full Time</td>
</tr>
<tr>
<td>Part Time</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SALARY INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>------------------</td>
</tr>
<tr>
<td>Total Responses to Survey</td>
</tr>
<tr>
<td>Total Responses to Salary</td>
</tr>
<tr>
<td>2014-2015 Average Salary</td>
</tr>
<tr>
<td>2013-2014 Average Salary</td>
</tr>
</tbody>
</table>

* Numbers in parenthesis represent total student responses to survey item. 57 students out of the 212 did not answer if they received an offer from their co-op employer. For 2013-2014, 60 students out of 216 did not answer if they received an offer from their co-op employer.

This report does not include 17 additional graduates who only completed one rotation through the program.
Cooperative Education Program Staff

Maureen Barcic, Director
Chris Frankovic, Associate Director
LeeAnn Falcon, Program Administrator

152D Benedum Hall
412-624-9882
http://www.engineering.pitt.edu/coop/

Co-op Faculty Advisors

Dr. Jack Patzer, Bioengineering
Dr. Joseph McCarthy, Chemical Engineering
Dr. Leonard Casson, Civil & Environmental Engineering
    Dr. Alex Jones, Computer Engineering
    Dr. John Ramirez, Computer Science
    Dr. Irving Jones, Electrical Engineering
    Dr. Pat Smolinski, Engineering Science
    Dr. Karen Bursic, Industrial Engineering
    Dr. Ian Nettleship, Materials Science Engineering
    Dr. William Slaughter, Mechanical Engineering