Industrial Outreach Program in Mexico

Mechanical, Aerospace, Electrical, Civil, Industrial, Engineering
Summer 2016

http://www.mae.statler.wvu.edu/
Industrial Outreach Program in Mexico

Objectives

• To add value to engineering education and to produce top quality engineering graduates with global competencies, by providing a meaningful industrial experience in a multicultural and multilingual professional environment.

• To bring value to industry through the projects assigned to the participating students, who apply practical engineering skills, interpersonal and communication skills and ultimately leadership skills to attain deliverables.

• To bring faculty members and engineers from industry together to share expertise, capacities and experiences in formulating and solving meaningful engineering problems.
Industrial Outreach Program in Mexico

Global Competencies

• Capability of working effectively with people who define problems differently without losing own perspective.

• The ability of working effectively in teams with people of different backgrounds and disciplines.

• The ability of effective communication in spite of language and cultural barriers.

• Cultural adaptability and sensibility in the work environment.

• The ability to identify and resolve cultural issues that may affect professional work.
Industrial Outreach Program in Mexico

Global Competencies Pyramid

- **Desire to Succeed**
- **Self driven to learn**

**Human Dimension**

**Professional Dimension**

- **Integration Skills**
- **Applications Skills**

- **Ability to use tools**
- **Fundamental knowledge**

**LEADERSHIP**

**COMPETITIVENESS**

**COMPETENT KNOWLEDGE**

**EFFECTIVE SKILLS**

**PROFESSIONAL ATTITUDE**
Components to the Program

- **Projects in Industry.** A meaningful engineering project of value to the industry with elements of engineering systems design, systems analysis and/or failure prevention and troubleshooting. With specific constraints and deliverables (6 Credits).

- **Intermixed Teams.** All participants are assigned to work in intermixed teams comprised of Mexican students and USA students of similar level and background, under the advice of an engineer from industry and a faculty advisor.

- **Weekly and Final Reports.** All participants produce a summary report and a progress presentation every week. A final report, presentation and poster are delivered at the end.

- **Full professional immersion.** Participants observe industrial discipline by working full time on a designated industrial site for 8 weeks. Students deliver a professional project report, a final presentation and a Poster presentation.

- **Full cultural immersion.** Participants are housed with local families who provide, safe, clean and friendly family environment.

- **Culture Class.** Course in Mexican Culture “in context” with guided cultural field trips to museums, archeological sites, villages, markets etc. (3 credits).
Industrial Outreach Program in Mexico

Logistics to the Program

- **Daily transportation.** Students are provided daily transportation to and from the industrial site to their host family home.

- **Housing.** All participants are placed with local families (carefully screened by CONCyTEQ) in an upper middle-class neighborhood, all within few-minutes walk distance.

- **Project facilitation.** Each industrial site provides the information and materials needed to conduct each project with an industrial liaison acting as advisor-facilitator for the project.

- **WVU Faculty Advisor (24/7).** Helps select projects from Industry and leads the activity in Mexico. Faculty leader provides advice, assistance and counseling to students (USA and Mexican) aimed at achieving goals of the program.

- **CONCyTEQ Support.** The Council provide support for transportation, communication with industries, screening of local families, support for social and professional events, and inter-institutional agreements for Program operation.
Industrial Outreach Program in Mexico

Mexican and American students visiting industries in Queretaro
Industrial Outreach Program in Mexico

WVU Group
12 Students

CU Group
12 Students

CONCyTEQ
Queretaro, Qro.
Mexico

V. Mucino (WVU)
J. Summers (CU)
Carlos Lopez (UAQ)
Gilberto Munoz (ITQ)

32 hrs-week of industrial exposure being a member of a team

CASE NEW HOLLAND
(Agricultural Tractors)

MESSIER Services
Landing Gear systems

TREMEC (DANA)
Automotive Transmissions

GE-Aircraft Engines (CIAT)
Energy

MABE
(GE-Appliances)

Bombardier Harnesses

VRK
Automotive structures
Industrial Outreach Program in Mexico

Profile of Participants

- **WVU Student participants.** Junior/Senior students in Mechanical, Aerospace, Industrial, Electrical and Civil Engineering. Other disciplines could be included in the future (Chemical, Mining, Petroleum, Agricultural). Students are best prepared for this program at the Junior or Senior level for participation in their “last summer” before graduation.

- **Queretaro Students.** Senior level students who have been selected through a competitive screening to spend the “Spring Semester at WVU” prior to the Summer Program in Mexico.

- **Faculty Members.** Several faculty members from the participating institutions conform the body of faculty advisors. Advisors conduct weekly visitations to the industrial sites to provide advise as the need arises and to evaluate the weekly presentations and final reports and from all participants.

- **Industrial Liaisons.** Provide advice, mentorship and facilitate projects for students groups. Industrial liaisons are typically experienced engineers who have a vested interest in the outcomes of the project at hand.
## Industrial Outreach Program in Mexico

### Typical Companies and Areas

<table>
<thead>
<tr>
<th>Company</th>
<th>Areas of activity</th>
<th>Project Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Electric</td>
<td>Aviation and Power</td>
<td>X  X  X</td>
</tr>
<tr>
<td>Bombardier</td>
<td>Aircraft manufacturing</td>
<td>X  X  X  X</td>
</tr>
<tr>
<td>Case-New Holland</td>
<td>Agricultural machinery</td>
<td>X  X  X</td>
</tr>
<tr>
<td>Delphi-CIDEC</td>
<td>Automotive Electronics</td>
<td>X  X  X</td>
</tr>
<tr>
<td>CIDEC-ConduMex</td>
<td>Technology Development</td>
<td>X  X  X  X</td>
</tr>
<tr>
<td>CENAM</td>
<td>Metrology – (Like USA NIST)</td>
<td>X  X  X</td>
</tr>
<tr>
<td>IMT</td>
<td>Transport Research Institute</td>
<td>X  X  X</td>
</tr>
</tbody>
</table>
Industrial Outreach Program in Mexico

Other Companies in Queretaro

- Siemens (Power systems)
- Bugatti-Messier Services (Aircraft landing gear systems)
- Tremec (Automotive transmissions)
- DANA Corporation (Automotive drivetrain components)
- Arvin Meritor (Automotive parts)
- VRK- Automotive Structures (aluminum and steel structures)
- Eaton Automotive (Heavy duty components)
- Scania (Transportation Units)
- ITR-Turboreactors (Aircraft Engines)
- Kelloggs Corporation (Cereals)
- Nestle (Processed dairy products)
- Gerber (Baby foods)
- Agros (Industrial greenhouse produce)
- CIATEQ (Technology development support for industry)
Industrial Outreach Program in Mexico

Universities in Queretaro

- Aniversidad Autonoma de Queretaro
- Instituto Tecnologico de Queretaro
- Universidad Aeronautica en Queretaro
- Instituto Tecnologico de Estudios Superiores de Monterrey – Minterrey Tech.
- Instituto Politecnico Nacional -CICATA
- Universidad Autonoma de Mexico- CEFATA
- Universidad Tecnologica de Queretaro
- Universidad Politecnica de Queretaro
- Instituto Tecnologico de San Juan del Rio
- Universidad Tecnologica de San Juan del Rio
Stop the test when:

a) The strain energy absorbed by the structure is equal to or greater than the required input energy $E_{in}$ or

b) Deflection of the structure exceeds the allowable deflection.

Side load test
Industrial Outreach Program in Mexico

Vibration analysis on the gear train
Industrial Outreach Program in Mexico

Design of a composite material pultrusion machine
Industrial Outreach Program in Mexico

Outcomes of the Program

• WVU Students:
  • Meaningful industrial practical experience
  • Enhanced Communication skills (presentation, written and verbal)
  • Experience of teamwork with diverse background team members
  • Reaffirmed Engineering skills
  • Professional Reporting skills
  • Professional work organization skills
  • New technical skills (computational, instrumentation, equipment and tools)
  • Cultural knowledge through cultural immersion
  • 9 Credits towards completion of Program requirements

• Queretaro Students
  • Same as above plus a Spring Semester Abroad
  • Credit for Professional Practicum requirement in their Program (in lieu of the 9 credits for WVU Students)
  • Great opportunities for Graduate Study Abroad for Mexican Students after Program
Outcomes of the Program

• WVU Faculty:
  • Extended Network with Universities in Queretaro
  • Extended Network with Industry in Mexico
  • Opportunity to extend Network with industry in the SSA.
  • Close encounter with industry
  • Opportunity to showcase research background to industry
  • Opportunity to identify talent for graduate programs
  • Faculty Development opportunity

• Queretaro Faculty:
  • Extended Network with WVU
  • Extended Network with Industry in Mexico
  • Close encounter with industry
  • Opportunity to showcase research background to industry
  • Opportunity to identify talent for graduate programs
  • Faculty development opportunity
Industrial Outreach Program in Mexico

Outcomes of the Program

• INDUSTRY:
  • Projects leave value for companies in solutions, models, data developed etc.
  • Mexican students are potential employees of those companies.
  • Industrial Liaisons develop a network and exposure to faculty members expertise.
  • Companies contribute to the education mission of the State of Queretaro.
  • Industry has the opportunity to have its voice heard by Academia.

• UNIVERSITIES:
  • WVU has established itself a leader in International Education.
  • Graduates from this program report in all cases the positive impact in job interviews.
  • WVU has a Certificate of Global Competency for graduates of this program.
  • Queretaro Universities have distinguished themselves by embracing international collaboration and by having top students spend a semester abroad.
  • Academia has the opportunity to have its voice heard by industry.
<table>
<thead>
<tr>
<th>Institutions Involved</th>
<th>Student Participants</th>
<th>Faculty from both countries</th>
<th>Industrial Liaisons</th>
<th>Industries/Research Centers</th>
<th>Projects developed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Local Institutions:</strong></td>
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<tr>
<td>• CONCyTEQ</td>
<td>158 (WVU)</td>
<td>9 (WVU)</td>
<td>(2) GM (Gto)</td>
<td>GM</td>
<td>(1) GM Mexico</td>
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<tr>
<td>• University of Guanajuato</td>
<td>10 (UG)</td>
<td>2 (UG)</td>
<td>(4) TREMEC (Qro)</td>
<td>TREMEC</td>
<td>(13) TREMEC</td>
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<tr>
<td>• University of Queretaro (UAQ)</td>
<td>71 (UAQ)</td>
<td>5 (UAQ)</td>
<td>(2) Transm-TSP (Qro)</td>
<td>Transmisones-TSP</td>
<td>(4) SPICER-TSP</td>
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<tr>
<td>• Institute of Technology of Queretaro (ITQ)</td>
<td>62 (ITQ)</td>
<td>6 (ITQ)</td>
<td>(1) Micro-Troq. (Qro)</td>
<td>Micro-Troquelados</td>
<td>(1) Micro-Troq.</td>
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<tr>
<td>• Tech. University of San Juan del Rio</td>
<td>31 (ITESM)</td>
<td>4 (ITESM)</td>
<td>(3) IMT (Qro)</td>
<td>IMT*</td>
<td>(5) INT</td>
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<tr>
<td>• ITESM (Tec. De Monterrey)</td>
<td>7 (CICATA)</td>
<td>2 (CICATA)</td>
<td>(2) LAPEM (Gto)</td>
<td>LAPEM*</td>
<td>(2) LAPEM</td>
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<tr>
<td>• CICATA (IPN)</td>
<td>9 (UTEQ)</td>
<td>2 (UTEQ)</td>
<td>(2) I. Turbo Reactores</td>
<td>ITR (TurboReactores)</td>
<td>(2) I. TurboReactores</td>
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<tr>
<td>• Aeronautical University in Queretaro (UNAQ)</td>
<td>6 (UPQ)</td>
<td>1 (UPQ)</td>
<td>(1) Terramite (VV)</td>
<td>Terramite Corp.**</td>
<td>(1) TerramiteCorp.**</td>
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<tr>
<td>• Polytechnical Univ. of Queretaro (UPQ)</td>
<td>22 (Clemson)</td>
<td>2 (Clemson)</td>
<td>(3) KOSA</td>
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<td>• UNAM</td>
<td>6 (UTSRJ)</td>
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<td>(4) Case- New Holland</td>
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<td>(9) Case-New Holland</td>
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<td>• Tech. Inst. Of San Juan del Rio</td>
<td>6 (MTSRJ)</td>
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<td>(3) InMec</td>
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<td>• Technological University of Qro (UTEQ)</td>
<td>7 (UNAQ)</td>
<td>2 (UNAQ)</td>
<td>(8) CENAM</td>
<td>CENAM*</td>
<td>(11) CENAM</td>
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<tr>
<td>• Universidad Politecnica de Santa Rosa de Jauregui</td>
<td>1 (UNR)</td>
<td>1 (UNR)</td>
<td>(2) ANSYS Mexico</td>
<td>Group SSC (ANSYS)</td>
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<td><strong>International Institutions:</strong></td>
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<td>• West Virginia University</td>
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<td>(1) Crown Mexico</td>
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<td>• Clemson University USA</td>
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<td>(10) Mabe-GE Appliances</td>
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<tr>
<td>• Universidad De Roma</td>
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<td>(2) CIDEC-ConduMex</td>
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<td>• Tor Vergata, Italy</td>
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<td>(2) Arvin-Meritor</td>
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<tr>
<td>• University of Nevada Reno</td>
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<td>(5) CIAT-GE Aircraft E.</td>
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<tr>
<td>• CIDEC-Delphi</td>
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<td>(3) VRK (Automotive)</td>
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<td>• CIDESI</td>
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<td>(2) CIATEQ</td>
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<td>• Messier Services</td>
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<td>(2) Bombardier</td>
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<td>• Brose</td>
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<td>(2) CIDEQ-Delphi</td>
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<td>• ** From West Virginia</td>
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<tr>
<td><strong>9 Institutions</strong></td>
<td>399 Students</td>
<td>40 Faculty</td>
<td>77 Liaisons</td>
<td>28 Companies</td>
<td>128 Projects</td>
</tr>
</tbody>
</table>

Nineteen year summary table for the Industrial Outreach Program in Mexico
Industrial Outreach Program in Mexico

First Year of Program WVU in Guanajuato-Queretaro, 1997
First Agreement signed 1999 WVU-CONCyTEQ
New Agreement WVU-CONCyTEQ Industrial Outreach Program, August 2012
Queretaro Institutions UAQ, ITQ and UNAQ with Secretary of Education

Queretaro Students at WVU, Spring Semester 2013
WVU Students, faculty and Government Officials in Closing Ceremony in Queretaro, Summer 2013
Industrial Outreach Program in Mexico

Spring Semester at WVU
January 1-May 15

- WVU Group
  16 Students From various Departments, MAE, CSEE, CEE

- 10 Students from Queretaro Institutions
  Spend spring semester at WVU

Industrial Outreach Program in Mexico
June 1 – July 31

- CASE NEW HOLLAND
  Agricultural Tractors
- TREMEC
  Automotive Transmissions
- MESSIER SERVICES
  Landing Gears Systems
- GENERAL ELECTRIC
  Aircraft Engines, Power Plant Turbines
- CENAM
  Calibration systems design and testing
- CONDUMEX-CIDEC
  Superconductors Electrical Cables
- MABE
  Appliances; ranges, washers, refrigerators
- BOMBARDIER
  Aircraft Manufacturing Systems

10 new students from Queretaro, UAQ, ITQ, UTEQ, UNAQ... join the program 1st time

Subsequent year

Graduates from WVU and Queretaro
Finish their BS Degree (with distinction)

Competitive selection process

Graduates from WVU and Queretaro
join industry or enter a Graduate Program due to added competitiveness
Dr. Mucino and his Co-authors Won the Process Industries Division – Best Paper Award 2012

Dr. Mucino and his co-authors won the Process Industries Division – Best Paper Award 2012. Their paper (IMECE2012-86444 Bridging Academia and Industry Gap, Through Global Competencies: Industrial Outreach Program US-Mexico) was selected as last year's IMECE winner, among all the papers submitted to one of the Process Industries Division sponsored tracks.

The Process Industries Division Best Paper Award – is awarded yearly for notable contribution to the field of Process Industry, published in the International Mechanical Engineering Congress and Exposition proceedings.

Dr. Mucino and his co-authors were invited to the Executive Committee meeting in San Diego for the award ceremony.

11/20/2013
This Program is more than just a “study abroad program” and more than just an “internship abroad program.”

It is study abroad, with practical experience, with meaningful academic credit, with a cultural immersion and with a professional development component in which benefits all:

- Students from WVU and Queretaro
- Industry from Queretaro (and USA)
- University Professors from WVU
- University Professors from Queretaro
- WVU and USA institutions
- Universities of Queretaro
Friday afternoon
“report session” in Spanglish after: soccer, basketball etc.

Industrial Outreach Program in Mexico
Industrial Outreach Program in Mexico

Weekend sightseeing opportunities around Queretaro
Industrial Outreach Program in Mexico

Socializing with Mexican Families
Industrial Outreach Program in Mexico

Delivering results with formal presentation to industry
Industrial Outreach Program in Mexico

Transportation on University of Queretaro Bus
Industrial Outreach Program in Mexico

Thank you
Industrial Outreach Program in Mexico

Figure 3-25
Age distribution of scientists and engineers in the labor force, by sex: 1993 and 2010

NOTES: For 1993 data, scientists and engineers include those with one or more S&E degrees at the bachelor’s level or higher or those who have only a non-S&E degree at the bachelor’s level or higher and are employed in an S&E occupation. For 2010 data, scientists and engineers include those with one or more S&E or S&E-related degrees at the bachelor’s level or higher or those who have only a non-S&E degree at the bachelor’s level or higher and are employed in an S&E or S&E-related occupation. The Scientists and Engineers Statistical Data System (SESTAT) does not cover scientists and engineers over age 75.


Science and Engineering Indicators 2014

Engineering Workforce of the USA is aging up...!!!
### Crime Comparison Between Queretaro and Pittsburgh, PA

#### Level of Crime
- Crime increasing in the past 3 years
- Worries home broken and things stolen
- Worries being mugged or robbed
- Worries car stolen
- Worries things from car stolen
- Worries attacked
- Worries being insulted
- Worries being subject to a physical attack because of your skin colour, ethnic origin or religion
- Problem people using or dealing drugs
- Problem property crimes such as vandalism and theft
- Problem violent crimes such as assault and armed robbery
- Problem corruption and bribery

#### Safety Comparisons Queretaro vs Pittsburgh, PA

<table>
<thead>
<tr>
<th>Safety</th>
<th>Queretaro</th>
<th>Pittsburgh, PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walking alone during daylight</td>
<td>Very High 93.75</td>
<td>Very High 80.98</td>
</tr>
<tr>
<td>Walking alone during night</td>
<td>Moderate 57.81</td>
<td>Moderate 50.00</td>
</tr>
</tbody>
</table>

#### Contributors:
- 16

#### Last Update:
- August, 2015
- November, 2015

### Safety Comparisons Queretaro vs Austin, TX

<table>
<thead>
<tr>
<th>Safety</th>
<th>Queretaro</th>
<th>Austin, TX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walking alone during daylight</td>
<td>Very High 93.75</td>
<td>High 79.81</td>
</tr>
<tr>
<td>Walking alone during night</td>
<td>Moderate 57.61</td>
<td>Moderate 43.27</td>
</tr>
</tbody>
</table>

#### Contributors:
- 16

### Safety Comparisons Queretaro vs Cincinnati, OH

<table>
<thead>
<tr>
<th>Safety</th>
<th>Queretaro</th>
<th>Cincinnati, OH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walking alone during daylight</td>
<td>Very High 93.75</td>
<td>High 70.00</td>
</tr>
<tr>
<td>Walking alone during night</td>
<td>Moderate 57.81</td>
<td>Low 26.67</td>
</tr>
</tbody>
</table>

#### Contributors:
- 16
- 15
Term: Summer 2016 Language and Cultural Studies

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<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Arrival</td>
<td>Late June</td>
</tr>
<tr>
<td>CISabroad Orientation</td>
<td>Late June</td>
</tr>
<tr>
<td>Classes Start</td>
<td>Late June</td>
</tr>
<tr>
<td>Classes End</td>
<td>Late July</td>
</tr>
<tr>
<td>Departure</td>
<td>Late July</td>
</tr>
<tr>
<td>Application Deadline</td>
<td>April 15</td>
</tr>
</tbody>
</table>

Prices

- Term: Summer 2016 Spanish Intensive Language: Price: $4,190 - $4,490 [more info]
- Term: Summer 2016 Language and Cultural Studies: Price: $6,490 [more info]

Airfare and credits NOT included

- Airfare and credits included

MEXICO

INDUSTRIAL OUTREACH PROGRAM IN MEXICO

SUMMER 2017,
For Mechanical, Electrical, Civil and Industrial Eng. Students

International Internships Summer 2017
- Earn 9 credits towards your engineering degree (MAE471, MAE472 & FQLT260 - Obj.3&9)
- Travel to Queretaro for 8 weeks
- Gain industrial experience with world-class companies
- Team up with Mexican students
- Live with a local family
- Long weekend in Cancun or Ixtapa at the end
- Eligible for CEMR Certificate of Global Competency

Approximate Cost 8 weeks
- $7,500 (all inclusive, tuition, room & board, airfare, admin, transportation, excursions, most meals)

Information: Dr. Victor Mucino (vmucino@mail.wvu.edu), E3634L

Airfare and credits NOT included
INDUSTRIAL OUTREACH PROGRAM IN MEXICO 2017

INDUSTRIAL INTERNSHIP WITH STUDY ABROAD CREDIT

Program Description
Travel to Queretaro, Mexico for eight weeks to earn nine credits towards your engineering degree by teaming up with Mexican students of similar disciplines and level. Gain industrial experience working full time on meaningful engineering projects with multinational companies in Queretaro. Student teams work under the advice of engineers from industry and faculty members from Mexico and the USA. Local families provide room and board in a safe, healthy and friendly environment for a full cultural immersion. The program ends with a long weekend in Cancun or Ixtapa. This Program is eligible for the CEMR Certificate of Global Competency.

Objectives
- Add value to students education through international experiential learning
- To solve meaningful engineering problems of value to industry
- To bridge the gap between academia and industry in an international setting

Courses with credit:
- MAE 471 Principles of Engineering Design (3 cr) – Capstone Design Course
- MAE 472 Engineering System Design (3 cr) – Project Technical Elective
- GEC (UAQ Spanish and Mexican Culture) (3 cr) – GEC Equivalent to FLCT260

Calendar
- Jan 16, 2017: Pre-Registration
- Feb 13, 2017: Meet Mexican students at WVU
- March 13, 2017: Deposit $1,000
- April 2, 2017: Deadline for registration
- May 1, 2017: Pre-departure meeting
- June 3, 2017: Travel to Mexico, Queretaro
- June 5, 2017: Start Project in Industry full time
- July 29, 2017: Fly to Ixtapa or Cancun
- August 1, 2017: Return to USA

Expenses covered
- Airfare: Pittsburgh-City-Cancun-Pitt
- Insurance for Study Abroad
- Room and Board with a Local Family
- Daily transportation to and from workplace
- Excursions (transportation and hotel)
- Administrative Fees (tuition 9 cr/hr)
- Daily meals with host family and industry
- Total $ 7,500* (approx) * Starter College provides aid of $ 200 for eligible students
  Program is eligible for financial aid.

Information Seminars (Room TBA)
- Nov 16, 2016
- January 16, 2017
- February 13, 2017
- March 13, 2017
- April 3, 2017 Deadline for registration

Information with Program Director
Dr. Vicen Mucino
vmucino@mail.wvu.edu
Professor and Associate Chairman
Mechanical and Aerospace Engineering
ESB 8418, (304) 293-1150

Join us in Queretaro June and July of 2017!!

This Program is open for junior/senior students eligible for Capstone Design in MAE, CEE, IMSE & CSEE