PURDUE GEARE PROGRAM
Developing Global Academic & Industrial Relationships

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Nation’s most comprehensive Global Engineering Training Program.

Participants earn a Minor in Global Engineering Studies.

Founded in 2003 with university and industry partners in Germany and China.

350 current students
Average GPA is 3.5

355 Program alumni working across the globe
WHY GLOBAL ENGINEERING
Boeing 787 Dreamliner

<table>
<thead>
<tr>
<th>PARTS NOT SHOWN</th>
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<tbody>
<tr>
<td>Landing gear</td>
</tr>
<tr>
<td>Messier-Dowty</td>
</tr>
<tr>
<td>(England)</td>
</tr>
<tr>
<td>Wing/body fairing</td>
</tr>
<tr>
<td>Boeing (Canada)</td>
</tr>
<tr>
<td>Landing gear doors</td>
</tr>
<tr>
<td>Boeing (Canada)</td>
</tr>
<tr>
<td>Cargo access doors</td>
</tr>
<tr>
<td>Saab (Sweden)</td>
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<tr>
<td>Passenger entry doors</td>
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<tr>
<td>Latecoere (France)</td>
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<tr>
<td>Engines</td>
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<tr>
<td>GE (Evendale, Ohio)</td>
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<tr>
<td>Engines</td>
</tr>
<tr>
<td>Rolls-Royce (England)</td>
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<td>Engine nacelles</td>
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<tr>
<td>Goodrich</td>
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<td>(Chula Vista, Calif.)</td>
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THE GLOBAL ENGINEER IS...

- Technically adept
- Broadly knowledgeable
- Multilingual and culturally aware
- Innovative and entrepreneurial
- Knowledgeable about world markets
- Commercially savvy
- Professionally flexible and mobile
GEARE (Global Engineering Alliance for Research & Education)

Program Requirements

- Minimum 3.0 GPA
- Enroll as a first year student or sophomore
- 5 mandatory sophomore meetings
- Domestic internship/research session
- International internship/research session
- Foreign language (12 credits)
- Cultural orientation seminars
- Study Abroad
- Global design team experience
- Poster presentation
GEARE
Program Schedule

First Year:
- Foreign Language Study
- Professional Development
- Domestic Internship

Second Year:
- Global Competence Seminars
- Study Abroad
- International Internship

Third Year:
- Global Design Project

Fourth Year:
- Poster Presentations
GEARE COORDINATORS
Roles & Responsibilities

GEARE Coordinators Assist by:

- Selecting Students for the Program
- Advising about academic credit at study abroad partner institutions
- Helping students connect with internship or research opportunities within their academic discipline
FINANCIAL IMPLICATIONS
GEARE Is a Cost Neutral Program

- No tuition during internship, students pay $400 for internship course and full-time enrollment. The fee helps fund Office of Professional Practice services.
- Students pay same tuition rate during exchange period
- Scholarships available to help with cost of living expenses, money raised from participating companies
- Students receive compensation during internships
In collaboration with its International University Partners, Purdue will assist in helping students get the proper authorization to work in their host countries.

Purdue’s University partners will issue acceptance letters covering the dates of both the study abroad semester and the internship.

The internship will be considered part of the academic program, which will allow students to work in most countries.

For students participating in internships outside of their study abroad country, Purdue will coordinate with a third-party organization specializing in visa and work authorizations such as IAESTE or with a hosting university in the internship country.
GLOBAL EMPLOYERS
Making Connections

- Leverage Campus Resources
  - International Students, Faculty, Career Services Office, and Alumni

- Collaborate with Partner Institutions

- Develop Student’s Professional and Cultural Skills

- Develop Consistent GEARE Employers
GEARE PARTICIPATION
Active Students

2017 - 350
2016 - 308
2015 - 259
2014 - 207
2013 - 171
ENGR STUDENT PARTICIPATION
GEARE Students by Discipline

2016-17 ACADEMIC YEAR

*Other Disciplines:
MSE - 3%
AE - 2%
BE - 2%
NUCL - 0.9%
CEM - 0.3%
EEE - 0.3%
IDE - 0.3%
MFET-0.3%

EE, 28, 8%
CMPE, 27, 8%
IE, 26, 7%
BME, 12, 3%
CE, 15, 4%
ME, 136, 39%
CHE, 43, 12%
AAE, 37, 11%
Other*, 26, 8%

PURDUE UNIVERSITY
GEARE
Student Participation

GEARE Participants by Gender

<table>
<thead>
<tr>
<th>Gender</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEMALE</td>
<td>119</td>
<td>34%</td>
</tr>
<tr>
<td>MALE</td>
<td>231</td>
<td>66%</td>
</tr>
</tbody>
</table>

GEARE Participants by Citizenship

<table>
<thead>
<tr>
<th>Citizenship</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. CITIZENS</td>
<td>256</td>
<td>73%</td>
</tr>
<tr>
<td>INT’L STUDENTS</td>
<td>94</td>
<td>27%</td>
</tr>
</tbody>
</table>
GEARE
Current Languages

42% STUDYING SPANISH

38% STUDYING GERMAN

10% STUDYING FRENCH

4% STUDYING CHINESE

4% STUDYING JAPANESE

2% STUDYING ITALIAN

COMING SOON! PORTUGUESE
GEARE LOCATIONS

China
Shanghai Jiao Tong University
(ME, ECE, IE, BME)

Hong Kong
Hong Kong University of Science and Technology (CHE)
Germany
Karlsruhe Institute of Technology (ME, IE)
Ruhr University of Bochum (ECE)
Technical University of Braunschweig (AAE)
Otto von Guericke University of Magdeburg (BE, CHE)
Leibnitz University Hannover (ME)

Switzerland
ETH Zurich (BME, ECE)
**GEARE LOCATIONS**

- **Mexico**
  ITESM (Queretaro campus) (BE, ME, IE)

- **Colombia**
  EAFIT (CE, CHE, ECE, IE)
  Universidad del Norte (ME, IE)

- **Spain**
  Universidad Carlos III de Madrid (AAE, BME, ECE, ME)

- **Ecuador**
  Universidad San Francisco de Quito (ABE, CE, CEM, EEE, IE, ME)
France
ESTACA (AAE, ME)
Grenoble Institute of Technology (NUCL)
Japan
Osaka University (ECE)
Waseda University (ECE)
Italy
Politecnico di Milano (IE)
GEARE LOCATIONS

Brazil (In Development)
Universidade Estadual de Campinas (ME)
DEVELOPMENT

GEARE University Partners

- Link with partners who can offer Engineering coursework in English
- Link with partners who can help develop industrial partners
- Link with partners who can aid with visa and work authorizations in the host country so that students can participate in academically related internships
- Link with partners where our students can have opportunities for cross-cultural interaction with students from the partner institution on design projects
PURDUE GEARE PROGRAM

Purdue’s Plan of Study for Faurecia

1st SEM AUG-DEC
Regular FYE Semester at Purdue

French 101

2nd SEM JAN-MAY
Regular FYE Semester at Purdue

Experience French ENGR Study Abroad

3rd SEM AUG-DEC
Regular ME Semester at Purdue

French 102

4th SEM JAN-MAY
Regular ME Semester at Purdue

French 201

5th SEM AUG-DEC
U.S. Internship with Faurecia

ENGR 39799 GEARE Domestic Internship

6th SEM JAN-JUNE
Regular ME Semester at Purdue

French 202

ENGR 297 Global Engineering Orientation

7th SEM AUG-DEC
Automotive Design Program at ESTACA

ENGR 397 Global Engineering Experience

8th SEM JAN-MAY
France Internship with Faurecia

ENGR 39899 GEARE Global Internship

9th SEM AUG-DEC
France Internship with Faurecia

Regular ME Semester at Purdue

Global Design Team Project

Graduation
PURDUE GEARE PROGRAM
ESTACA Plan of Study for Faurecia

1st SEM: SEP-DEC
- Regular Semester at ESTACA

2nd SEM: JAN-JUN
- Regular Semester at ESTACA

1st SUM: SEP-DEC
- Mandatory Internship (1 month) in France or Abroad

3rd SEM: JAN-JUN
- Regular Semester at ESTACA

2nd SUM: SEP-DEC
- Mandatory Internship (1 month) in France or Abroad

4th SEM: JAN-JUNE
- Regular Semester at ESTACA

5th SEM: SEP-DEC
- Regular Semester at ESTACA

6th SEM: MID-JUNE-AUG
- France Internship with Faurecia

7th SEM: SEP-DEC
- Regular Semester at ESTACA

8th SEM: JAN-APR
- Semester at Purdue

4th SUM: MAY-SEP
- U.S. Internship with Faurecia

9th SEM: OCT-MID-FEB
- Regular Semester at ESTACA

10th SUM: MID-FEB-SEP
- Mandatory Internship (6 months) in France or Abroad
OUTCOMES
Purdue GEARE Students

- 99% placement in career or graduate school prior to graduation
- Average starting salaries of $8,000 more than average reported for discipline
- 70% of students grew by at least one level in global competency as measured by the Intercultural Development Inventory
- 350+ program alumni around the world. Many have started GEARE programs within their organizations.
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