Proceedings

Enhancement of the Global Perspective for Engineering Students by Providing an International Experience

Engineering Conferences International Year 2003

Lawrence Technological University - Global Engineering Education Program

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Global Engineering Program

LAWRENCE TECHNOLOGICAL UNIVERSITY

Global Engineering Education Program

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Global Engineering Program

About Lawrence Tech

- Founded in 1932 as Lawrence Institute of Technology (LIT)
- Engineering Education for Working Professionals
- Motto: Theory and Practice
- Henry Ford Helped Shape LIT
  - First Location-Highland Park (next to Ford facility)
  - Space Donated by Henry Ford
Global Engineering Program

About LTU

- Comprehensive University with Focused Professional Programs
- 4 colleges
  - Architecture and Design
  - Arts and Sciences
  - Engineering and Management
Global Engineering Program

About LTU

- One of Michigan’s largest independent universities
- ~5000 students
- Offers nearly 40 undergraduate & graduate degree programs
- Strong Automotive Engineering Focus
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LTU Campus and Students
Global Engineering Program

Need and Opportunities

- Most products use components and subsystems that are internationally engineered and manufactured
- Future engineers will practice and work in an International Corporate Environment
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Message from Industry

- In Oakland County there are over 130 German owned companies.
- The need for engineering graduates with international experience will continue to grow.
- Engineers with global experience will quickly move into leadership and management positions.
Program Goals

- Develop and implement a program that will produce engineers with international experience, including both the *practice* and *study* of engineering abroad.

- Program will be supported by both academia and industry
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A Four Way Partnership

- Lawrence Tech – Home institution
- Fachhochschulen (University of Applied Sciences) – German partners
- Global companies – German location
- Detroit offices of Global Companies
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Global Engineering Certificate (GEC) Program

- Foreign students enrolled at partner institutions are invited to study at LTU for one semester and work in industry for one semester.
- LTU co-op students are recruited to study and work abroad by enrolling in the GEC program.
The GEC program provides study and work abroad for LTU co-op students in good standing at participating companies.

Corporate sponsored scholarship support is available to subsidize additional expenses of study abroad for top students.

GEC requires one academic year:
- One semester of study abroad
- One semester of work abroad
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Global Engineering Certificate Support

- The success of GEC program depends upon industrial support in accepting co-op students from Germany in US and US students in Germany.

- Placement and financial support may be provided by global companies with engineering offices in both Germany and the Greater Detroit Area.
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GEC Financial Support

- Participating companies have been asked to support one exchange (both scholarship and placement):
  - LTU student to Germany
  - German student to LTU
- Allocation of scholarship funds is determined by LTU Financial Aid Office
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GEC Supporting Companies (1/2003)

- Automation Alley (Oakland County economic development agency)
- Gehring L.C. (Farmington Hills)
- Visteon Automotive Systems (Plymouth)
- Heller Machine (Troy)
- Behr (Troy)
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GEC Student Participation

- Application to LTU’s Global Engineering Program
- Review of
  - Co-op (internship) program status including employer recommendations
  - Recommendation from academic advisor
  - Academic program status
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Going to Germany (LTU students)

- Take “Conversational” German Course
- Make arrangements for housing, medical insurance, prepare budget, passport, etc. (assistance will be provided by international offices at German FH and LTU)
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Going to Lawrence Tech (Deutsch students)

- Submit a cover letter stating your background and reasons for studying in the U.S.
- Include academic transcript of course of study (including English translation of courses and marks)
- Include work experience
- Copy of passport and statement from Bank of financial responsibility
Global Engineering Program

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