

*Preparing Students
for the Global Workplace*



**The International
Engineering Program**
at the University of Rhode Island

IEP 1987-2006

The International Engineering Program



1987-2006

- 5-years – two degrees
- B.S. in an engineering discipline
- B.A. German, French or Spanish (Chinese is next!)
- Six-month paid internship abroad
- Semester study abroad



Five Year BA/BS Program

■ Bachelor of Science

Engineering Field

- Biomedical
- Chemical
- Civil
- Computer
- Electrical
- Industrial
- Mechanical
- Ocean

■ Bachelor of Arts

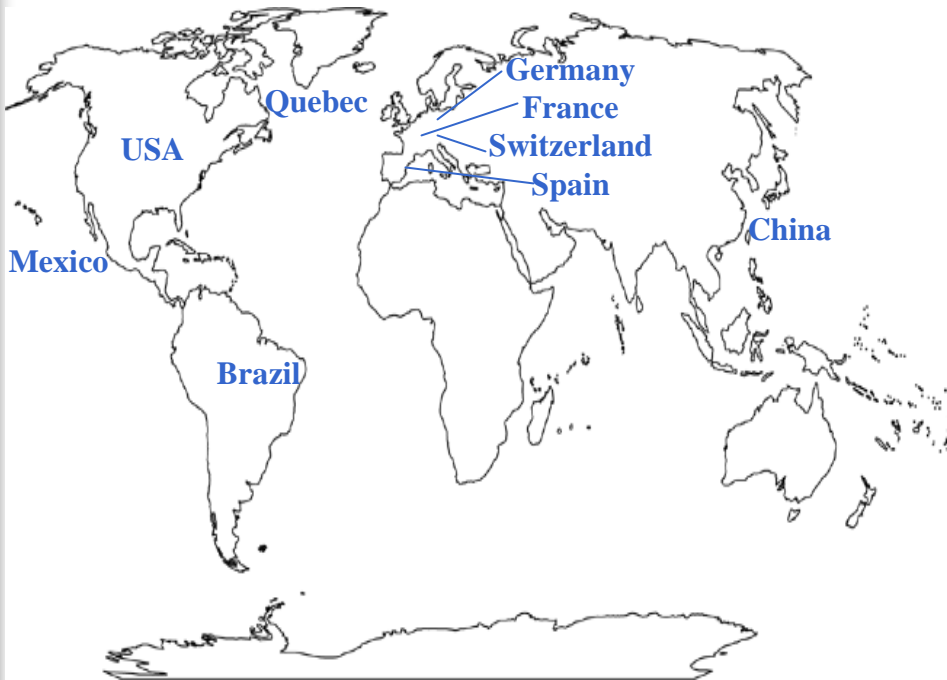
German, French or Spanish
(coming soon...Chinese!)



Our Students

- **200+ Students** (120 German; 40 Spanish; 35 French; Chinese 10)
- **20% of all engineering undergrads** at URI are in the IEP. All will study and intern abroad, and earn a second degree in a foreign language.
- **30% are women** (as compared to 17% of all College of Engineering undergrads)
- **53% are Presidential Scholars**
- **240 Graduates**

Internship Placements





Some of our corporate partners

- BMW, DaimlerChrysler, Volkswagen
- TRW, ZF Friedrichshafen, Emitec
- Siemens, SAP, Pentair, Texas Inst.
- Agfa, Bayer, Beiersdorf, Axiva
- Lufthansa Technik, MTU
- Hilti, St. Gobain, Praxair, Hexagon
- ThyssenKrupp, Züblin, Preusse Bau



Academic Exchange

- Reciprocal exchange model
 - Technische Universität Braunschweig (Germany)
 - ITESM – Toluca, Monterrey Campuses (Mexico)
 - Universidades de Zaragoza, Navarra, Cantabria & Valladolid (Spain)
 - Université de Technologie de Compiègne (France)
 - Université Laval (Canada)
 - Zhejiang University (Hangzhou, China)
- At Bachelor, Master's, and Ph.D. levels

Germany and Braunschweig



BRAUNSCHWEIG



Student Exchange with Technische Universität Braunschweig

	URI to TU-BS	TU-BS to URI
1995-1996	5	5
1996-1997	9	9
1997-1998	12	12
1998-1999	14	12
1999-2000	15	16
2000-2001	13	13
2001-2002	22	25
2002-2003	16	15
2003-2004	20	16
2004-2005	21	15
2005-2006	10	14
2006-2007	24	14
Total:	181	166

Total # of Students Exchanged: 347



How it works

- One-to-one exchange (mostly)
- Regardless of level
- Tuition/fees paid at home
- Students pay travel and living costs
- Normal application for degree status
- Reliance on multiple faculty contacts
- Two key coordinators
- Hard work and good chemistry



Biggest Challenge?

Convincing American students that it is in their best interest to:

- Invest in language learning
- Study other cultures
- Spend significant time abroad
- Become globally mobile
- Even if it means more time and cost



Ingredients for Success (at URI)

- Clarity of advantages to student
 - American pragmatism
- Integrated, articulated program
 - Not an “add-on” or “short-term” program
- Involve students from the beginning
- Create strong infrastructure of support
- Interdisciplinarity
- Marketing
- Marketing
- Marketing
- Marketing



Recruiting the students

- Start before they arrive!!
- Build a culture!
- Demonstrate the advantages
- Involve partners from industry
- Use the alums



Recruitment/Marketing

- Brochures
- Mailings
- Web site
- School Outreach
- Conference Presentations
- Reputation (market niche)
- Success Stories



Dear Student,

Congratulations! You have not only been admitted to the engineering program at the University of Rhode Island but also selected to receive a Centennial Scholarship. That is a high honor reflecting your strong academic career to this point and the faith that this institution has in your ability to excel in the future.

Since you will no doubt be deciding soon which college or university you will be attending next fall, we want to be sure that you know about URI's International Engineering Program (IEP) which is designed to give you strong advantages in today's global workplace, and opportunities unlikely to be offered elsewhere.

The IEP is a five-year program leading to **two degrees**: the Bachelor of Science in any one of the engineering fields, and the Bachelor of Arts degree with a major in German, French, or Spanish. The IEP features separate language courses for engineers, a **six-month paid internship** with a company abroad in the fourth year of the program, the option of **study abroad** at partner universities in Germany, France, Spain, and Mexico, and at least one senior-level engineering course taught in the language by engineering faculty.

GERMAN SUMMER SCHOOL OF THE ATLANTIC 2006

At the University of Rhode Island
June 25—August 4, 2006



**Learn German
this summer!**

INTENSIVE GERMAN LANGUAGE & CULTURE IMMERSION PROGRAM

- Fully accredited
- For adults of all ages
- Beginning to graduate level
- Enables completion of 8-9 college credits

www.uri.edu/iep/dssa

IN COOPERATION WITH THE GOETHE INSTITUTE AND THE FEDERAL REPUBLIC OF GERMANY

For more information contact: Professor Norbert Hedderich Phone: 401-874-4710, Fax: 401-874-4694, Email: hedderich@uri.edu

The IEP House



**A Learning
Community for
Students & Faculty**

Former Fraternity House

***IEP* HOUSE**
International
Engineering Program



67 UPPER COLLEGE ROAD



- 40 Residents
- 3 Meals Daily (M-F)
- Satellite TV
- Ethernet Ports in every room
- Phone/Voicemail
- Central Air

IEP House



A learning and living
community

The Kirk Duffy Center



Heidi Kirk Duffy
Center
for
International
Engineering
Education

Planned for 2007

EVENTS UPDATE

Study Tour to Germany

Just a reminder that the 2003 German Study Tour applications are available in the IEP Office and on the web. The trip will take place May 18—June 1, 2003. Get your applications and deposit in by February 1 to secure your spot!

Free German Tutoring

Reminder: Free German language tutoring is available with German exchange students Sören and Michael!

Where: German Language Resource Room—Independence Hall, Room 11

When: Sören (soeren.koch@tu-bs.de) holds office hours on Mondays and Wednesdays from 1-3, and Michael (M.Miler@gmx.net) on Tuesdays and Thursdays from 10-12.

IEP Apparel On Sale Now

IEP Golf Shirts . . . \$15



IEP Caps \$5

Volunteers Needed

Volunteers are needed for the 2003 IEP Phone-a-thon on Tuesday, February 18 from 5:30-9:00 PM. We will be calling prospective high school students who have been accepted to the URI College of Engineering to make them aware of the IEP. Pizza will be served and volunteers who work the whole evening will be entitled to one of the following: an IEP hat, a lunch at the IEP house, or an IEP mug. Stop by the IEP Office or email kmaher@uri.edu to sign up today! Please note: Monday classes meet on that Tuesday.

Summer Internships Still Available

BMW, Volke, ZF and Daimler-Chrysler have all expressed interest in hosting interns at their US facilities this summer. German IEP students in Mechanical, Electrical, Industrial, or Computer Engineering should stop by the IEP House by Friday, January 31 to see Dr. Grandin and pursue these leads!

IEP House Applications Due

The IEP House is accepting applications for the 2003-2004 academic year! Rooms are available to IEP students in all 3 languages on a competitive basis. Stop by the IEP office to pick up an application, or download one from the web at www.uri.edu/iep. **Due in the IEP Office by Feb. 10!**

Learn German
this summer!

German Summer School of the Atlantic

June 22 — August 1

Intensive German language & cultural immersion program, enabling completion of 8-9 credits in a summer learning community—the at IEP House!

For more information, contact Professor Norbert Hedderich

hedderich@uri.edu
(401)874-4710

www.uri.edu/iep/dssa

Toluca Students Coming

A group of students and a faculty member from ITESM in Mexico will be at URI on a Study Tour March 6-14. The group will stay with IEP host families, attend classes, visit companies, and tour the area. If you would like to get involved, please email kmaher@uri.edu.

Intern Panel

On Tuesday, February 11 at 7 PM in the IEP House, a panel of IEP returnees who interned abroad will share their experiences and discuss cultural differences they encountered. All are welcome!

Attention IEP Students

2006 Study Tour to Germany

Sponsored by the IEP & the DAAD

Who? Up to 25 IEP Students accompanied by URI German Professors Stephanie Hann and Damon Rarick. Students must be registered for a spring 2006 German course, and committed to registering for a fall 2006 German course.

When? Scheduled for May 13-27, 2006.

Why? To visit 8-10 IEP partner companies such as Lufthansa, Continental, ZF, Emitec, DaimlerChrysler, Bosch, Züblin, Hilti, Siemens, and BMW, as well as the Technische Universität Braunschweig.

\$\$\$? Thanks to anticipated outside support, the program fee will be not more than \$1200. Lodging, breakfasts and most other meals are provided. Additional on-site expenses will be limited to incidentals and some meals.

For more information:

<http://www.uri.edu/iep/studytours/index.html>

If interested, submit an application and \$100 deposit to the IEP Office (in the IEP House)- First come, first served!

Tel: 874-4283 E-mail: iep@etal.uri.edu



Dual Degree Masters Program

- MS/Diplom
- Based upon recognition of equivalency
- Based upon joint acceptance of thesis
- Supported by German Transatlantic Program
- Supported by DAAD scholarships
- Supported by industry scholarships
- TU-BS students completing MS: 46
- URI students in the pipeline:
 - One complete
 - Six in process



Dual Degree Doctoral Program (proposed)

- Open to all engineering programs
- Supported by NSF PIRE grant
- Ph.D. / Dr.-Ing.
- Minimum one-year residency abroad
- Common thesis
- Two advisors, two committees, two defenses
- All requirements met for both schools



Barriers from the U.S. Perspective

- High costs
 - Tuition, fees, living expenses
 - Outstate tuition for grad students: \$18,000
 - Added costs and time
- Traditional support mechanisms discourage mobility
 - Teaching/research assistantships
- Language preparation



Solutions

- Scholarship grants (direct aid)
 - DAAD
 - Fulbright
 - NSF
 - Private sector sponsors
- Inter-institutional research programs
 - Motivate faculty to send students
 - Mutual benefits (win-win)
 - Example: NSF support for URI/TU-BS
- Collaborate with language faculty



*9th Annual Colloquium
on International Engineering
Education*

November 2-5, 2006

Hotel Viking

Newport, Rhode Island

Register online:

<http://www.uri.edu/iep>

The International Engineering Program at the University of Rhode Island presents the

9th Annual Colloquium on International Engineering Education



**Hotel Viking
Newport, Rhode Island, USA
November 2-5, 2006**

EDUCATING ENGINEERS AS GLOBAL CITIZENS

- Come to Newport November 2-5 for the timely exchange of ideas and information on the internationalization of engineering education.
- A colloquium designed for higher education administrators, engineering and language faculty, international educators and leaders from the private and public sectors

Organized by the University of Rhode Island

Steering Committee Members

Coyle Elliott, University of Cincinnati
John Grandin, University of Rhode Island
E. Daniel Hirtleman, Purdue University
Rebecca Hovey, SIT/World Learning
Joia Lohmann, Georgia Tech
Phillip McKnight, Georgia Tech
Diane Rover, Iowa State University
Bernd Widdig, MIT

For more information

www.uri.edu/iep
International Engineering Program
University of Rhode Island
67 Upper College Road
Kingston, RI 02881
Phone: 401-874-4203
Fax: 401-874-7443
Email: iep@etol.uri.edu



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