



Generation Study Abroad

Influencing Engineering Students and
Programs







Studying abroad is one of the best ways to prepare students for living and working in a fast-paced interconnected world

Total U.S Education Abroad

Total = 381,846+



313,415

Study abroad
for academic
credit

46,000 +

Full degrees
abroad

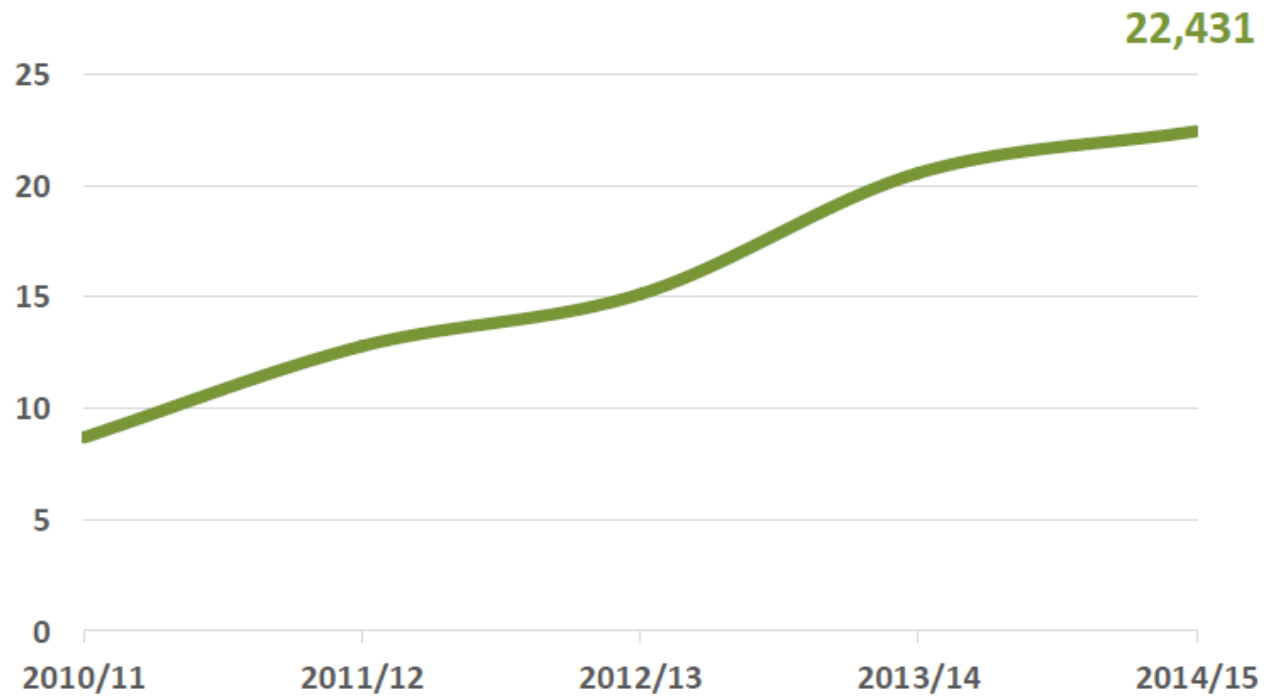
22,431+

Non-credit
work,
internships &
volunteering



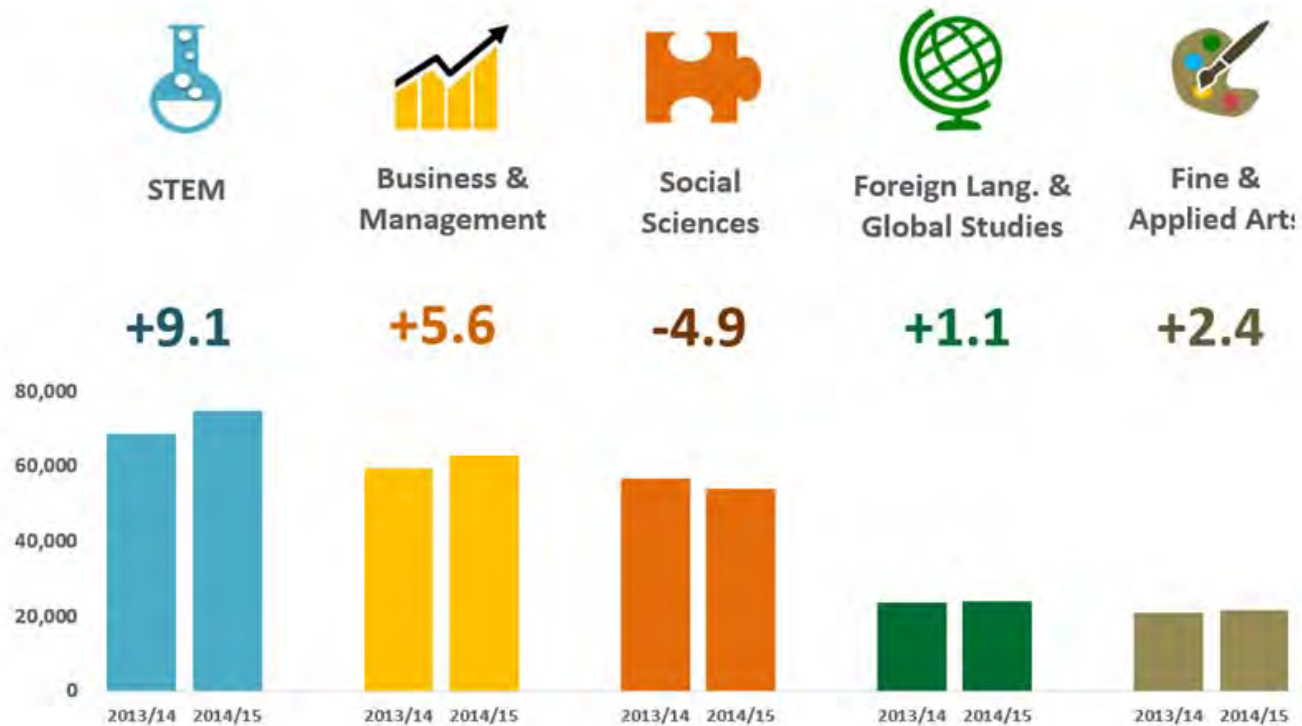
Influencing Engineering Students and Programs

Non-Credit Education Abroad



Influencing Engineering Students and Programs

Study Abroad Growth by Major Field



Influencing Engineering Students and Programs

Global E3 Institutions who have joined Generation Study Abroad

US Institutions

Case Western Reserve University

CUNY City College

Georgia Institute of Technology

Lehigh University

New Jersey Institute of Technology

Rensselaer Polytechnic Institute

SUNY Buffalo

University of Delaware

University of Michigan

University of New Hampshire

University of Tulsa

Clemson University

Drexel University

Illinois Institute of Technology

Mississippi State University

Oregon State University

Rose-Hulman Institute of Technology

Texas Tech University

University of Illinois, Urbana-Champaign

University of Minnesota-Twin Cities

University of Portland

University of Wisconsin-Madison

International Institutions

Delft University of Technology (TU Delft)

University of Canterbury

University of New South Wales

Tecnologico de Monterrey

University of Melbourne

University of Sheffield



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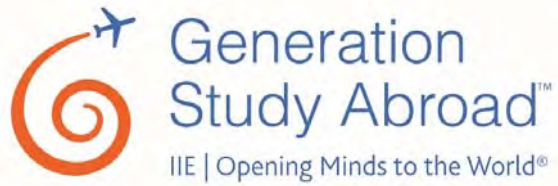
Presenters

- **Sarah Chow**, Program Officer
 - Institute of International Education
- **Galyna Melnychuk**, International Programs Coordinator
 - Mississippi State University
- **Katie Radande**, Director, Study Abroad
 - Lehigh University
- **Jennifer Evanuike Baird**, Global Internship Program and International Plan,
 - Georgia Institute of Technology
- **Tamara Bacsik**, Internationalization Project Manager
 - Delft University of Technology (TU Delft)



Influencing Engineering Students and Programs





MISSISSIPPI STATE UNIVERSITY™
JAMES WORTH
BAGLEY
COLLEGE OF ENGINEERING





- Mississippi State University joined Generation Study Abroad in 2014
- Pledged to increase participation from 200 to 450 students by 2020

MSU Strategies to Increase SA Participation

- Study Abroad Ambassador's Program
- A new scholarship to be used toward study abroad for high-achieving students
- Increased number of faculty-led short term programs
- Working with underrepresented groups
- New marketing strategies
- On campus passport facility



Creating Opportunity for Engineering Students

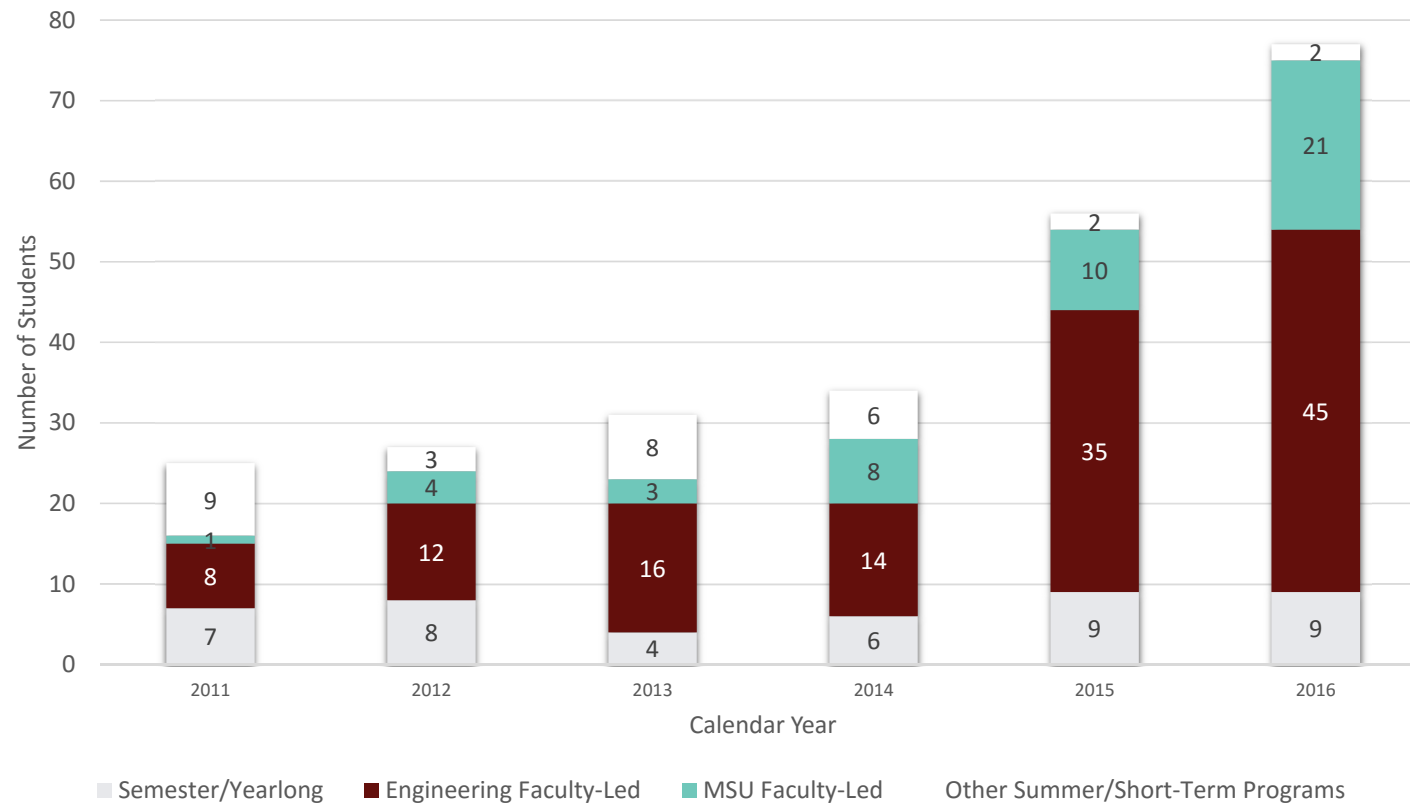
	Engineering Economy	Technical Writing
Aerospace Engineering	E	R
Biological Engineering	E	R
Chemical Engineering	R	R
Civil Engineering	R	R
Computer Engineering	E	R
Computer Science	E	R
Electrical Engineering	E	R*
Industrial Engineering	R	R
Mechanical Engineering	R	R
Petroleum Engineering	R	R
Software Engineering	E	R

Global Engineering Leadership Minor

- Requires 18 hours
 - 6 hours of foreign language (can count for humanities)
 - 3 hours Challenges in Global Engineering
 - 6 hours of electives (many different areas)
 - 3 hours Overseas Engineering Experience
 - Study Abroad
 - International Research Experience
 - International Engineering Internship
 - Engineers Without Borders
 - etc.



Impact - BCoE





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IIE GENERATION STUDY ABROAD: GEORGIA TECH'S PROGRESS TOWARD OUR PLEDGE

JENNIFER EVANUIK BAIRD
DIRECTOR, GLOBAL INTERNSHIP PROGRAM AND
INTERNATIONAL PLAN

CREATING THE NEXT®

OUR PLEDGE



- Increase the number of undergraduate students who graduate with international experience to 60% by 2019-20
- Increase capacity by expanding international program offerings
 - New programs such as embedded study abroad and international service learning
 - Expand to new destinations
 - Increase international internships
- Increase effort to serve underrepresented majors as well as students with financial barriers

BY THE NUMBERS SO FAR



In 2014:

- 48% of undergraduate students had international experience
- 59% of engineering undergrads had gone abroad
- 34 faculty-led programs
- 138 students interned abroad
- \$100,000+ scholarships awarded

Currently:

- 52% of undergraduate students have international experience
- 64% of engineering undergrads have gone abroad
- 45 faculty-led programs
- 188 students intern abroad
- \$350,000 scholarships awarded

HIGHLIGHTS



- New locations: Bolivia, Ghana, Panama, Poland, Puerto Rico
- New embedded spring break programs - Civil & Environmental Engineering, Business
- Serve-Learn-Sustain: focus on sustainability and service-learning
 - SLS in Spain
 - Sustainable Development in Japan
 - More non-credit programs, such as engineering field work and project-based trips
 - CIEE service-learning programs in Dominican Republic, Ireland, South Africa
- New faculty-led semester program in Barcelona for Science students (underrepresented majors)
- Preferred exchange partners and curriculum mapping
- \$1,000,000 donation from GT alum for study abroad scholarships

CHALLENGES



- Program Directors starting to get burned out, retiring
- How to reach new young faculty to “pass the torch”
- With relatively high participation rate, no longer going after “low hanging fruit” – must figure out how to reach the next group of students (barriers and preferences)
- International internships difficult to scale significantly with current model and staffing
- Hard to give away need-based scholarships – maybe students who have high need don’t even look?

MOVING FORWARD



- Emerging Faculty Leaders in Study Abroad program funded by Provost's Office
- Focus on first-year students, intentional advising and outreach
- Increased involvement with campus partners (GT 1000, Residence Life, Institute Communications, Academic Advising Manager, Institute Diversity)
- Heavy emphasis on tracking non-credit education abroad, new Travel Registry

THANK YOU!



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TU Delft & Generation Study Abroad

Facts & Figures, TU Delft

Size: 22,000+ students

Ranking: 20th university of engineering & technology in the world (QS World University Rankings, 2017)

Disciplines: Various engineering & technology disciplines, design, architecture, applied sciences, and technology policy/management

International profile:

- Over 250 BSc courses in English; All 35 BSc minors in English ; All 35 MSc programmes in English
- 30% of MSc population is international
- Over 1,200 new international students welcomed annually
- Over 50% TU Delft students have an experience abroad



TU Delft & Generation Study Abroad

What is asked of international pledge partners?

To double or significantly increase the number of U.S. students hosted at their institution by the end of the decade.

Why is this interesting for TU Delft?

- Complimentary to our existing internationalization plans
- High interest from TU Delft students to study in the US (via exchanges)
- Attractive location for American study abroad students
 - Challenging academic environment with hands-on research opportunities
 - Safe, historic, lively and international student city
 - Ease of access to travel throughout Europe
 - English commonly spoken
- Expectation: Provide us with a platform (network, exposure) to achieve the goals of the international pledge partners



TU Delft & Generation Study Abroad

Stated pledge

*Delft University of Technology (TU Delft) in the Netherlands pledges to actively expand and strengthen our educational exchange partnerships with American institutions and to explore additional ways to host more American students.
(April 2015)*



TU Delft & Generation Study Abroad

How we plan(ned) to achieve this:

Institutionally

- Increasing course and programme offerings in English at the bachelors level
- Increasing summer research opportunities for American undergraduate students
- Exploring different models of study abroad with US partners

Networking / outreach

- Active participation in the Global E3 exchange programme
- Active NAFSA participation
- Proactively looking to expand and increase US exchange opportunities

Collaboration to understand & address challenges

- Collaborating with US partner institutions in addressing the challenges associated with STEM students studying abroad



TU Delft & Generation Study Abroad

What we have achieved until now:

Institutionally

- Increased flexibility to take courses from various disciplines
- Increasing English BSc course offerings

Networking / outreach

- Hosted 2016 Global E3 annual meeting
- Realized a rise in popularity as a requested Global E3 destination
- Continue to expand strategic exchange partners
- Active in professional networks such as NAFSA

Collaboration to understand & address challenges

- Inventorize challenges together with partner universities
- Conducting focus groups with US study abroad students to address credit transfer and other issues



TU Delft & Generation Study Abroad

Some challenges we have encountered:

- Academic calendar overlaps
- Courses
 - requirements of incoming US students
 - ease of accessing our course information
- Not an obvious study abroad destination
- (Lack of) capacity (interest?) internally to create alternative study abroad formats
- Exchange partnerships – time consuming (but very worth-it!) to start and usually begins with small numbers of exchange places



TU Delft & Generation Study Abroad

Lingering questions for Generation Study Abroad:

- What is the added value of participating?
- What can we expect as an international pledge partner?
 - Network?
 - Exposure?
 - Platform?
 - Resources?
 - Is there more we could be getting out of our 'participation'?

Questions / comments for TU Delft?

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