

# ***SHORT-TERM STUDY ABROAD MAYMESTER/SPRING BREAK 2022***

Learning about your options for faculty -led study abroad  
2022

# *Agenda for today*

- Introductions
  - Jill Churchill
  - Rhonda Haan
  - Edwin Kpodzro
- General information about STEP Programs
- Short presentations about each available program
  - All programs discussed today can be found on the Global Engineering website: [engineering.purdue.edu/GEP/Study-Abroad/Short-Term](https://engineering.purdue.edu/GEP/Study-Abroad/Short-Term)
- Q&A- At any time, please put questions in the chat
- This session will be recorded so you can find it on our website along with the PowerPoint

# Scholarships

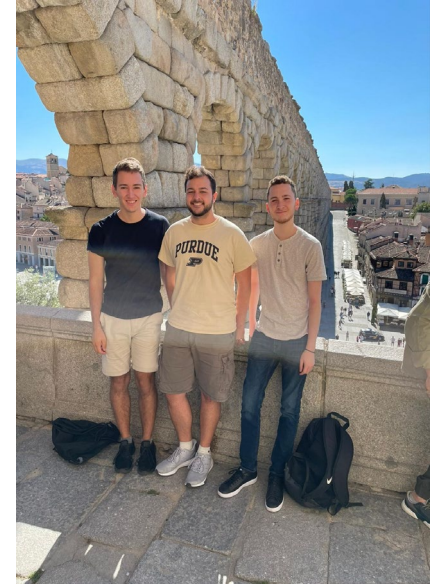
## Purdue Moves Scholarship Information

- Must have a current FAFSA on file
- Must be a US Citizen or able to file a FAFSA
- Eligibility determined by reported household income

Total Family Income					
Study Abroad/Study Away Term					
	\$75,000 or less	\$75,001-\$100,000	\$100,001-\$125,000	\$125,001-\$150,000	\$150,001 or more
Winter Break 2021/22	\$1000	\$700	\$500	\$300	Ineligible
Spring Break 2022	\$1000	\$700	\$500	\$300	Ineligible
Summer 2022 - less than 14 day program	\$1000	\$700	\$500	\$300	Ineligible
Summer 2022 - 14 day program or greater	\$2000	\$1500	\$1000	\$500	Ineligible
Summer 2022 - Program duration at least 6 weeks offcampus and earning 6 or more credits	\$3000	\$2500	\$2000	\$1500	Ineligible

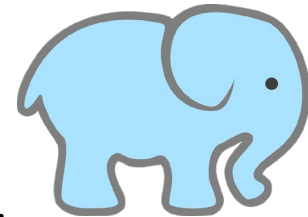
# *General Info about all Programs*

- Check each program for eligibility requirements-Don't assume you aren't eligible
- Check with your academic advisor to determine how the credit can be used in your plan of study
- All prices will be set by December 15
- Academic credit is included in program fees. No additional tuition
- For May 2022 programs you will be billed in April 2022 (with summer bills) on your Bursar account
- For Spring Break you will be billed on your spring 2022 Bursar bill
- Check with the DFA after January for options
- For Most programs (except spring break) airfare is NOT included in the program price



# *The Elephant in the Room*

## What about COVID??



- While Purdue is not currently requiring vaccination (It's highly recommended) for study abroad, many countries, travel vendors, site visits, etc. are requiring proof of vaccination. Be prepared.
- The COVID situation will be evaluated in January 2022 to determine if study abroad can move forward. Students will be notified if you are enrolled for a program
- You are not financially obligated by just applying for a program
- Cancellation/ Trip Interruption Insurance may be purchased on your own. Info will be available for you
- Be flexible! Locations, site visits, or activities may have to be canceled, rescheduled, or substitute plans made to accommodate COVID restrictions

# Intro to Silicon Valley and the Tech Industry

March 12-20, 2022 spring break

Led by Joe Tort [tort@purdue.edu](mailto:tort@purdue.edu)

Estimated Cost: \$2500 (flight included)

Earn 1 credit for ENGR 10300

Open to all Engineering students but preference given to 1<sup>st</sup> and 2<sup>nd</sup> year students. Resume and Cover Letter needed for the application process

This is an embedded spring course. Class will meet once per week during spring semester with travel at spring break

Course will focus on Professional Development Skills

Will include company visits such as:

Zoox Autonomous vehicles, Jobi Aviation, Tesla, OmniVis, and Apple, other TBA

SVBig-Silicon Valley Boilermaker Innovation Group

Panel Discussions and Alumni Interaction



## Cultural and fun Activities:

-Visit to Alcatraz

-Muir Woods National Monument-  
Ancient Redwoods

-Ano Nuevo State Marine  
Conservation area to see the  
Elephant Seals

-Stop for lunch in Santa Cruz

-Optional bike ride- Golden Gate  
Bridge to Sausalito (extra charge)

# Lakota Culture, Design, and Service Experience EPICS-South Dakota (Greenhouse Project)

May 8-22

Led by Prof. Bill Oakes and Paul Leidig

Estimated Cost: \$2000-\$2300

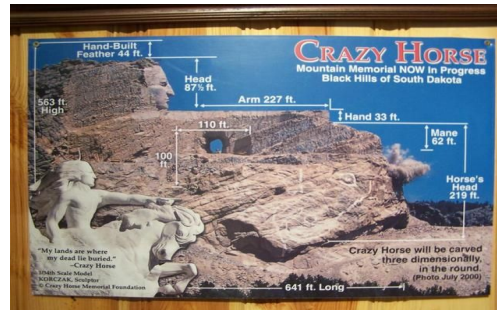
Earn 3 credits- EPICS 49000



Open to all Engineering students interested in this project  
[EPICS website:lakotaepics.wixsite.com/purdue](http://EPICS.website:lakotaepics.wixsite.com/purdue)

Work on service project on the Pine Ridge Lakota  
Reservation. Stay in Rapid City and commute

Visit to the Oglala Lakota College (OLC) for tour of  
greenhouse, lecture, and discussion and South Dakota  
School of Mines



## Cultural Activities:

- Wounded Knee Memorial
- Crazy Horse Monument and Mount Rushmore
- Day trip to Badlands National Park
- Deadwood visit
- Talks on Lakota history and culture



# Air and Space Industry - Mexico

May 8-14

Led by Francisco Montalvo [fmontalv@purdue.edu](mailto:fmontalv@purdue.edu)

Estimated Cost: \$1680 (flight and most meals included) Price finalization TBD- Still getting quotes  
Earn 2 credits for ENGR 39697



All Engineering students eligible to apply. Preference given to GEARE students and those in ME and AAE. Freshman and Polytechnic students are eligible to apply.

Maximum- 14 spaces available

Week-long course at Universidad Aeronáutica en Querétaro

Workshop in aircraft maintenance, Techops MRO, National Center of Aeronautical Technologies (CENTA), Aerocluster of Querétaro, Safran Aircraft Engines tour, and Manufacturing & Design Workshop.



## Cultural and fun Activities:

- Querétaro City Tour
- Welcome dinner
- Cheese and Wine Tasting in Tequisquiapan
- Bernal's Tour
- Mexican Party with UNAQ students
- Mexico City Tour



## ME 35400 Machine Design I in Prague

May 8-June 4

Led by Prof. Jitesh Panchal [Panchal@purdue.edu](mailto:Panchal@purdue.edu)

Estimated Cost: \$3850

Earn 3 credits for ME 35400

Open to all Engineering students with this course in their plan of study and prerequisites met prior to departure

Same course that is offered on WL Campus

GPA Requirement: 3.0—Due to the accelerated pace of the course.

Class is each weekday 912, afternoons for office hours and group study sessions. TA travels with the group

Weekends free

Easy travel to other European destinations such as: Switzerland, Austria, and Germany



### Cultural and fun Activities:

- Prague City Tour
- Tour of Czech Brewery
- Czech Cooking Class
- Visit to the Museum of Communism
- Guest lecture on Czech Culture and Language
- Day trip to Kutna Hora

## ME 20000 Thermodynamics I in Stockholm

May 8-June 4

Led by Prof. Carl Wassgren [wassgren@purdue.edu](mailto:wassgren@purdue.edu)

Estimated Cost: \$4500

Earn 3 credits: ME 20000 Thermodynamics I

Open to all Engineering students

Same course that is offered on WL Campus

GPA Requirement: 3.0—Due to the accelerated pace of the course.

Class is each weekday 912 at KTH, Swedish Royal Institute of Technology, afternoon office hours and time for homework. TA travels with the group.

Class visit to a Waste to Energy Plant (WTE) if COVID restrictions allow.



### Cultural and fun Activities:

- Guided tour of the Ice Bar
- Nobel Prize Museum
- Boat tour of the Archipelago
- Drottningholm Palace tour
- VASA Museum
- Parliament and City Hall tours if COVID restrictions lifted

# Biomedical Modeling for Global Health in Scandinavia

May 14-May 25

Led by Profs. Elsje Pienaar and Joseph Rispoli  
[epienaar@purdue.edu](mailto:epienaar@purdue.edu) [jrispoli@purdue.edu](mailto:jrispoli@purdue.edu)

Estimated Cost: \$3850

Earn 3 credits for BME 49500

Open to all Engineering students in good academic standing

Watch the video on the web flyer

You will visit Denmark, Sweden, Finland, and Estonia  
-Overnight ferry to Helsinki included

Lectures at local universities, relevant company visits, and group project work



## Cultural and fun Activities:

- Copenhagen City Canal Tour

- Guided tour of the Ice Bar in Stockholm-1 drink included

- Boat tour of the Archipelago

- Guided walking tour of Tallinn, Estonia

- Welcome and Farewell Meals

- Parliament and City Hall tours if COVID restrictions lifted

# ME 27000 Basic Mechanics I -Rome

May 8-June 4

Led by Prof. Chuck Krousgrill

[krousgrill@purdue.edu](mailto:krousgrill@purdue.edu)

Estimated Cost: \$4,000

Earn 3 credits: ME 27000 Basic Mechanics

Open to all Engineering students with ME 270 in their plan of study and have met the prerequisites(PHYS 17200)

No GPA requirement, but students must be in good standing, no academic probation.

Class will be held week days (weekends free for exploration) 9-12, afternoons free for study sessions and homework at the study center.

One Engineering focused site visit

Students will be housed in shared apartments with other Purdue students



## Cultural and Fun Activities

-Bike ride on the Appian Way

-Pizza and Gelato Crawl

-Rome City Tour

-Guest lecture on Italian Culture and language

-Day trip to Pompeii

# Bioinspired Materials and Structures - Singapore

May 14-June 3

Led by Prof. Andres Arrieta [@purdue.edu](mailto:arrieta@purdue.edu)

Estimated Cost: \$4000

Earn 3 credits- ME 49700



Open to Engineering students in any major who have completed their sophomore year prior to departure through Seniors.

Class sessions, relevant site visits, Lab tours, guest faculty lectures, and case studies

*Please note the following slides and YouTube Videos on the web flyer*

## Cultural and fun Activities:

- Night Safari
- Botanical Gardens
- Sentosa Island
- Kukit Timah Nature Reserve
- Kranji War Cemetery
- China Town and Chinese Gardens
- Masjid Sultan Mosque



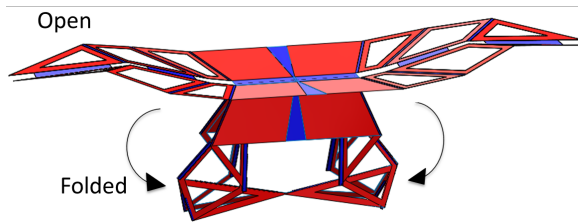
# EARWIG (DERMAPTERA) WING FOR BIOINSPIRED ORIGAMI SYSTEMS

## Bioinspiration: Earwig

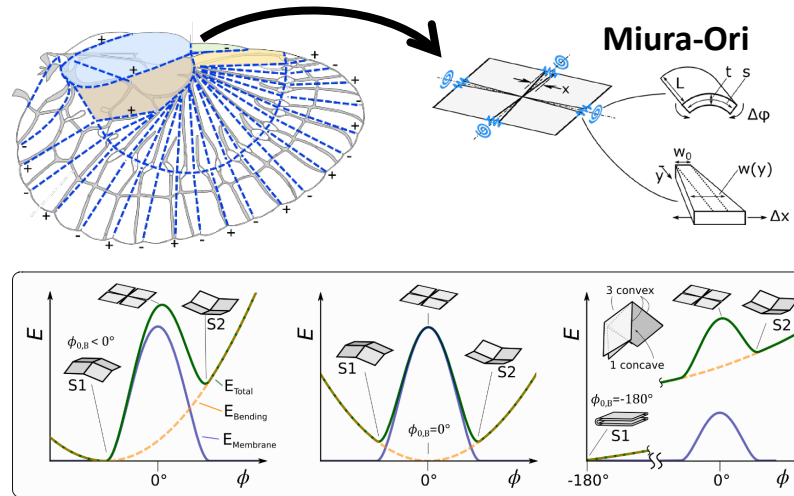


## Applications

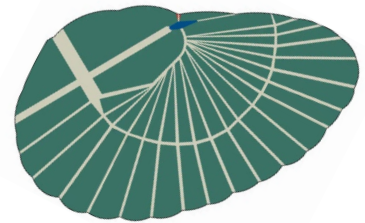
### Origami robotics



### Theory and modelling



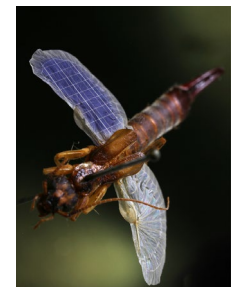
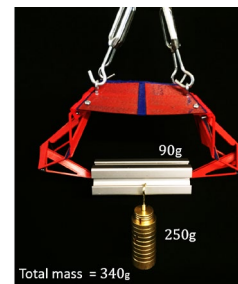
### Simulations



### Experiments



### Foldable solar panels



# VENUS FLYTRAP: MULTISTABLE STRUCTURES FOR RECONFIGURATION

## Bioinspiration: Venus flytrap

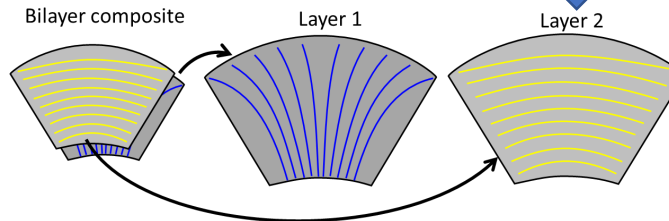


## Applications

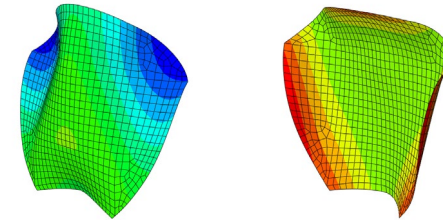
### Theory and modelling



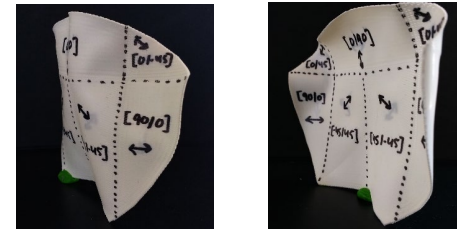
### Micro-reinforcement



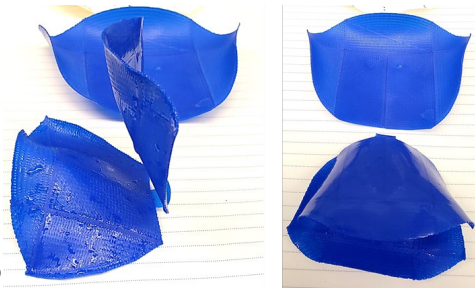
### Simulations



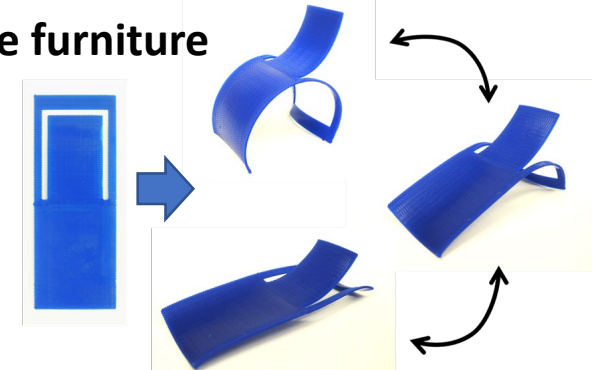
### Experiments



### Multistable grippers



### Reconfigurable furniture





# Automation and Connectivity for Sustainable Development of Resilient Infrastructure - Singapore

May 1429

Led by Prof. Sam Labi [labi@purdue.edu](mailto:labi@purdue.edu)

Estimated Cost: \$3500

Earn 3 credits for CE 49700

Open to all Engineering students who have reached the sophomore level prior to departure

Students must be in good academic standing

Class is each weekday 911 followed by afternoon site visits.

Examples: SBSGali Batu Depot, Centre of Water Research, Changi Airport tour, PSA Port visit on Port of Singapore operations development

National University of Singapore (NUS) Museum, lab tours, -Chinatown and guest lectures



## Cultural and fun Activities:

-Night Safari

-Day at Sentosa Island

-Kampong Glam and Arab Street

-Kranji War Cemetery

# PUP Team-Team (Purdue Utility Project)

Dates: TBD-Program duration TBD

Led by Prof. John Lumkes and David Wilson

[Lumkes@purdue.edu](mailto:Lumkes@purdue.edu)

[wilsondd@purdue.edu](mailto:wilsondd@purdue.edu)

Estimated Cost: \$2,500-\$3,000 depending on length of stay and flight costs.

Earn 3-6 credits of GEP 300 depending on length of stay and involvement in the team

Open to all Engineering students who are actively involved with the PUP Team. If you wish to become part of the team, please contact Prof. Lumkes or David Wilson



[engineering.purdue.edu/pup](http://engineering.purdue.edu/pup)

# Industrial Microbial Biotechnology in Germany

May 8-21

Led by Prof. Abigail Engelberth

[aengelbe@purdue.edu](mailto:aengelbe@purdue.edu)

\*Callout- November 3, 78pm via Zoom\*

Estimated Cost: \$3400-3600

Earn 3 credits- ABE 49500

Prerequisites: ABE 202, BCHM 307, or ChE 211

**Open to:** Biological Engineering, Chemical Engineering, Biochemistry, Food Science, and other applicable majors. Contact Prof. Engelberth if you are unsure if you qualify

-Cities on the Itinerary: Berlin, Munich, Stuttgart, Heidelberg

-In addition to class sessions there will be guest lectures, Bavarian State Brewery of Weihenstephan, Waste Treatment Plant, Wine making facilities, State Institute for Agricultural Projection and Bioenergy, Heidelberg Pharma, BRAIN BioTech Thurn Germany, Bayer AG, and Richter Helm BioLogics



## Cultural and fun Activities:

- Munich Walking Tour
- Stuttgart Walking Tour
- Tour of Heidelberg
- Tour of Hamburg
- Wine Tasting
- Welcome and Farewell meals



## EPICS in Puerto Rico (Natural Disaster Preparedness)

May 15-29

Led by Jorge Martinez

Estimated Cost: \$3400

Earn 3 credits- EPICS 49000

Open to all Engineering students. Please contact Jorge Martinez for questions

Class sessions/Design sessions/Group work sessions with community leaders. Project ideas under development now



### Cultural and fun Activities:

- Old San Juan Walking Tour
- Day trip to Loíza Aldea including the Village
- Free time at Vacia Talega Beach
- Lunch in Piñones



# European Transportation Systems & Supply Chains

July 1730

Led by Prof. Darcy Bullock and Debbie Horton

[darcy@purdue.edu](mailto:darcy@purdue.edu) [dhorton@purdue.edu](mailto:dhorton@purdue.edu)

Callouts: Thursday, October 21, 5:30 -6:30 FRNY G124  
Monday, November 1, 5:30-6:30 FRNY G124

Estimated Cost: \$2917  
Earn 3 credits-CE 49700

**Open to:** All Engineering students in good academic standing

-Please view the following slides for more information



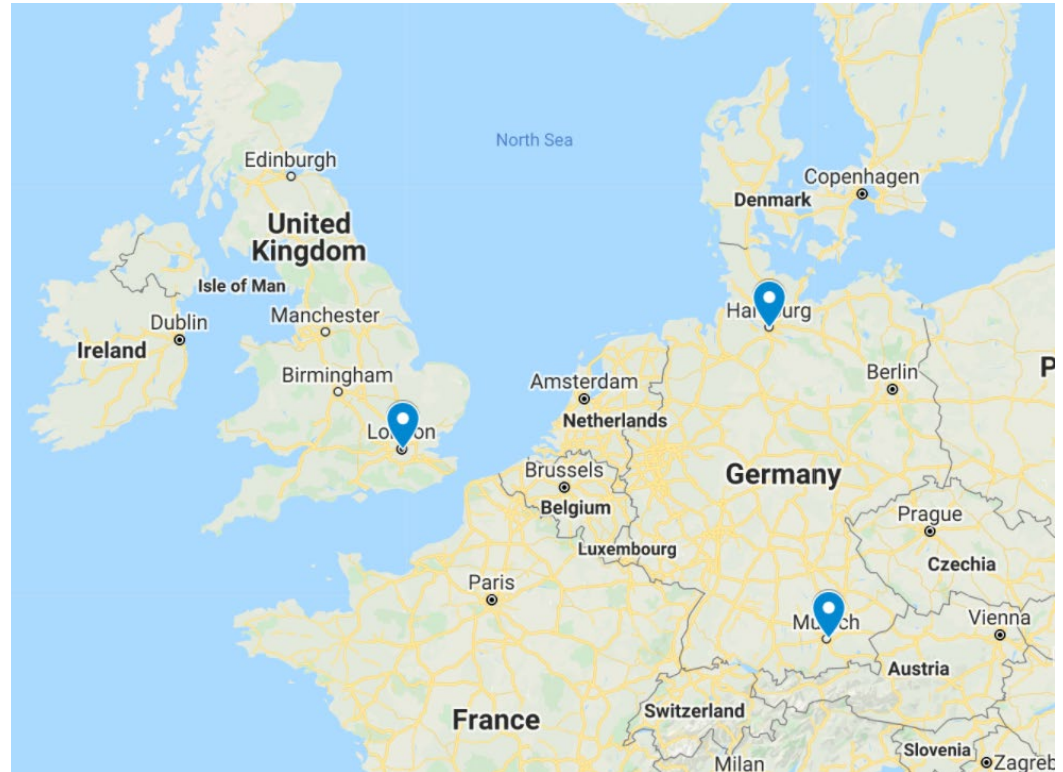
## Cultural and fun Activities:

- Windsor Castle
- London Bike Tour and Tower Bridge
- Munich Bike Tour
- Hamburg Bike Tour
- Miniature Wonderland
- Several meals included in program price

# 2022 STUDY ABROAD

## Hub Cities

- London
- Munich
- Hamburg



## PROFESSOR BULLOCK'S FAVORITE QUOTE

*“If you are going to be outstanding in your field, you first need to spend some time standing in the field.”*



Constructing well integrated multi-modal transportation systems is a tremendous engineering challenge that is difficult to comprehend from a textbook.



**Safe**



**AIRBUS  
GROUP**



**Professional**

**Educational**



**Fun**

# PRELIMINARY ITINERARY

*SUBJECT TO CHANGE DUE TO FLIGHT AND TRAIN SCHEDULES, TOUR  
AVAILABILITY, ETC.*

Week 1	Travel Day	London	London	London	London	Munich	Munich
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	7/17/22	7/18/22	7/19/22	7/20/22	7/21/22	7/22/22	7/23/22
Curriculum Activities	Travel from US to UK	London Bike Tour Tower Bridge	Crossrail Stations, Olympic Park Village & Arcelormittal	Farnborough Air Show	Windsor Castle Small Group Activities	Flight to Munich Munich Airport Tour	Munich Bike Tour

Week 2	Munich	Munich	Munich	Hamburg	Hamburg	Hamburg	Hamburg
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	7/24/22	7/25/22	7/26/22	7/27/22	7/28/22	7/29/22	7/30/22
Curriculum Activities	Dachau	Olympic Tower BMW Plant Tour	Deutsches Museum Small Group Activities	Hamburg Bike Tour Miniature Wonderland	Port Tour Airbus Factory Tour	Elb Tunnel Elbphilharmonie Small Group Activities	Departure to US



# AI in Engineering - Jordan

May 8-22

Led by Prof. Hany AbdelKhalik

[abdelkhalik@purdue.edu](mailto:abdelkhalik@purdue.edu)

Estimated Cost: \$3000-\$3500 (still working on itinerary so this may vary)

Earn 3 credits for NUCL 49700

Open to all Engineering students who have reached sophomore status through seniors in good academic standing

Class sessions and guest lectures will be held at the Jordan University of Science and Technology (JUST) in Irbid, Jordan.



## Cultural and fun Activities:

-Time in Amman Jordan

-Petra

-Dead Sea

-Please check back as we add to the itinerary



# JUST

# Regulatory and Clinical Science for Global Health in Japan

May 14-29

Led by Prof. Aaron Lottes [lottes@purdue.edu](mailto:lottes@purdue.edu)

Estimated Cost: \$4100

Earn 3 credits for BME 49500

**\*Currently tourist travel is not allowed in Japan. You may apply and the situation will be evaluated in late January\***

Open to all Engineering students with an interest in Medical Devices, sophomores through seniors

Cities to be visited: Sendai, Tokyo, Osaka, Kyoto

Visits to Partner universities: Tohoku, Tsukuba, Osaka



## Cultural and fun Activities:

- Tokyo City Tour
- Tokyo Sky Tree
- Kiyomizu Temple & Gion
- Osaka City Tour
- Shinsaibashi Dotonbori Area
- Sendai-the site of the 2011 devastating tsunami

# Q&A

## Ask Anything

Please put your questions in the chat

If we don't get to your question,  
include your contact info so we can  
follow-up with you

# *THANK YOU*

Jill Churchill [churchil@purdue.edu](mailto:churchil@purdue.edu)

Rhonda Haan [rhaan@purdue.edu](mailto:rhaan@purdue.edu)

[GEP@purdue.edu](mailto:GEP@purdue.edu)

[engineering.purdue.edu/GEP](http://engineering.purdue.edu/GEP)