

Tohoku University Engineering Summer Program 2016

July 25th to August 5th, 2016

About Tohoku University

Since its founding in 1907, Tohoku University has engaged in world's top class education and research activities. Sendai city, where Tohoku University is located, has many cultural sites where you have the chance to extensively experience Japanese culture.

TESP

The Graduate School of Engineering offers a two-week program under two courses of "Robotics" and "Electrical and Electronic Engineering". We will provide a series of graduate level lectures and hands-on activities in laboratory. All will be taught in English by our experienced professors from the Graduate School of Engineering, Graduate School of Information Science, and Graduate School of Biomedical Engineering.

In addition, the program provides cultural activities and a field trip that expose participants to Japanese culture and beautiful historical sites around northeastern area of Japan. Students studying in the field of engineering at Tohoku University will support the program with these activities. We welcome young professionals from our partner universities around the world to take this opportunity to experience an inspiring and challenging summer here in Sendai, Japan.

Program Structure

The program offers two-week intensive activities that are characterized by four components: core lectures, hands-on activities in laboratory, cultural activities, such as Kimono dressing and tea ceremony, and a field trip. The academic part of each course is as follows:

<Robotics Course>

➤ Core Lectures

11 slots of 1.5 hours lectures on the following topics:
Field and Space Robotics, Rescue Robotics, Human-Robot Interaction, Haptic Interface, Robot Vision, Medical Robotics, Molecular-size Robotics, Biologically Inspired Robotics
(students are expected to attend all lectures.)

➤ Hands-on Activities:

Selective from the following topics:
Field and Space Robotics, Human-Robot Interaction, Haptic Interface, Robot Vision, Molecular-size Robotics

<Electrical and Electronic Engineering Course>

➤ Laboratory visit and experience

*Laboratory of Microphotonics
Laboratory of Wireless Information Technology
Laboratory of Electromagnetic Engineering*

➤ Hands-on Activities:

Design and make a prototype of a smart wireless power transfer system which can generate the solar electric power and transfer the power wirelessly to the electric devices.



Eligibility

The Tohoku University Engineering Summer Program (TESP) accepts applications from graduate students who are nominated by TESP's partner institutions. If you are interested, please inquire and apply through the International student exchange office or coordinating professor at your home institution. Program requires students to be fluent in English. Background knowledge and laboratory experience on Robotics or Electrical and Electronic Engineering are expected.

Number of Seats

60 students (Robotics 50, Electrical and Electronic Engineering 10)

Application Procedures

Step 1: Nomination by home institution

Step 2: Nominated students fill up application form, and send all application documents to us through International office at home university.

Step 3: TESP committee will view the applications and make admission decisions

Step 4: TESP committee will issue the admission documents and send it to the home university in 2-3 weeks.

Supporting Documents

- ※ All documents should be in English. Please attach the English translation if the document is in other languages.
- Application form (with photo 4cm×3cm)
- Academic transcript at home university
- Personal statement (300-500 words)
- Passport copy (the identification page with photo and name)

Application Deadline May 10th, 2016

Accommodation

Hotel accommodation in downtown will be arranged. Participants will commute to campus by subway at their own expense.

Program Costs

Registration fee is 15,000JPY.

Tohoku University will provide tuition, accommodation, program activities fee, welcome & farewell party.

Participants are responsible for meals, local transportation and airfare.

Insurance

Please note that Tohoku University does not provide any health or personal insurance cover on your behalf. Although problems are rare, please ensure that you have health and personal insurance cover that is sufficient for the whole period that you will be in Japan. Please bring a copy of the insurance application form and the insurance policy through your period of stay in Japan.

Contact Us

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