

TOHOKU UNIVERSITY ENGINEERING SUMMER PROGRAM 2018 Structural Materials Engineering Course July 30th – August 10th



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.

Sendai Tanabata Festival: August 6th – 8th

TESP-SMEC

TESP-SMEC is a two-week summer program for graduate students providing a series of graduate level lectures and hands-on activities in laboratory. All will be taught in English by experienced professors of the Graduate School of Engineering. The program provides cultural activities and a field trip that expose participants to Japanese culture and beautiful historical sites in the northeastern area of Japan. In addition, SMEC participants will travel to Akita prefecture by Shinkansen (bullet train) to visit a Metal Recycling Industry, and Japanese Sword Studio in Matsushima (known as Japan's three most scenic views). Engineering students of 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. This year, participants also have chance to enjoy a local festival of Sendai city "Tanabata".

The academic part of Structural Materials Engineering Course is as follows:



➤ Classes

*Phase Diagrams, Plastic Deformation and Dislocation Theory, High-Temperature Materials, Introduction of Bulk Metallic Glasses
Introduction of Power Processing, etc*

➤ Core Lectures

- Alloy Design and Synthesis by Arc Melting
- Spark-Plasma Sintering and 3D Printing
- Microstructure Observation and Analysis by Optical and Electron Microscopy and X-ray Diffractometry
- Vickers Hardness
- Tensile and Compression Tests



TOHOKU
UNIVERSITY

ELIGIBILITY & SEATS

- Graduate level students of TESP-SMEC partner institutions
- Fluent in English
- Background knowledge
- 10 seats

Online Application DEADLINE

APRIL 27th, 2018

15:00 (JST)

Application received after the deadline
will not be considered

APPLICATION PROCEDURES

➤ Students

Internal Screening

Contact your international office or coordinating professor



Online Application

Get the online application link from your home institution and upload the required documents

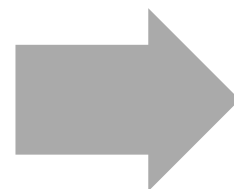


Get Confirmation Email

➤ International Office/Coordinating Professors

Nomination

Email TESP organizer the candidate list



Provide Online Application Link

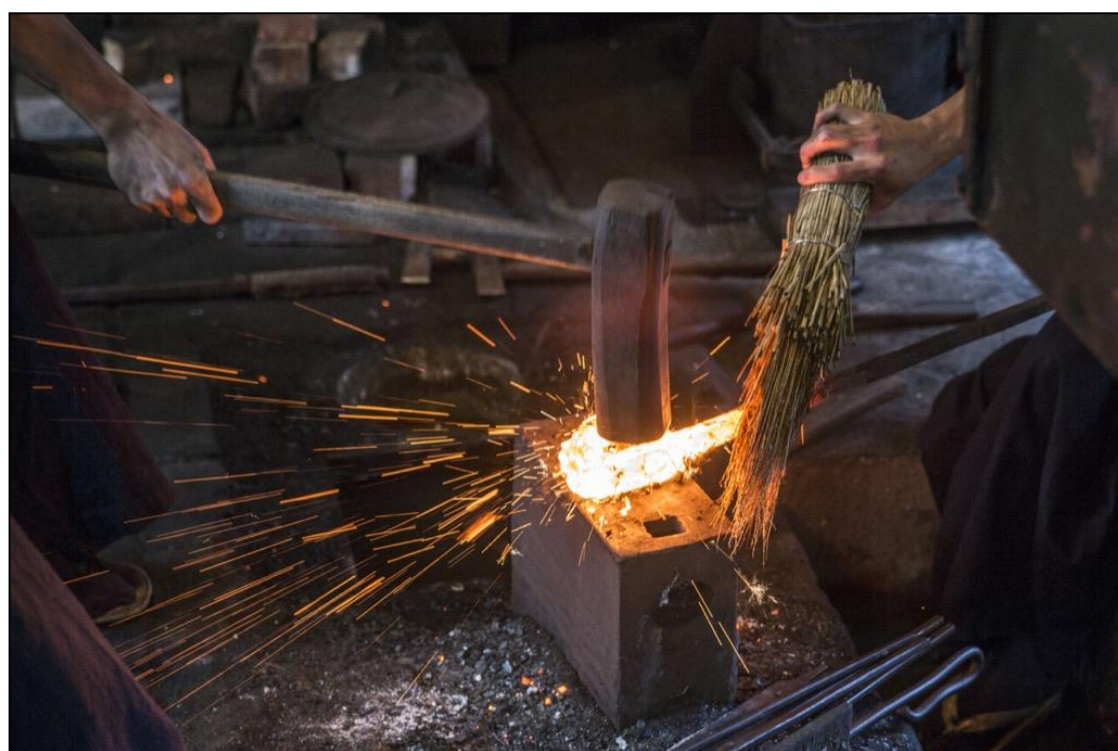
Provide the link to only those nominated

PROGRAM FEE: 80,000 JPY

The fee covers tuition, accommodation, cultural activities, field trip, industrial visit and parties. Participants are responsible for meals, local transportation from hotel to campus and airfare.

Transportation fee (bullet train + bus) and meals for trips and visits are covered by the program fee.

- * The program fee should be paid online, and the detailed guidance will be sent to the successful applicants.
- * Program fee is nonrefundable.



INSURANCE

All program participants are required to buy travel insurance in their own country BEFORE coming to Japan. Students will be solely responsible for any accidents that occur while staying in Japan. Their insurance must cover accident and medical care expenses.

ACCOMMODATION

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

SCHOLARSHIP OPPORTUNITY

JASSO (Japan Student Services Organization) Scholarship may be awarded to those who meet the requirements. Please inquire with international office staffs at your university.

Scholarship amount: 80,000 JPY

Note: Those who get JASSO scholarship for the program should bear half of the accommodation fee (approx. 35,000JPY for 13nights, as of 2017).

Contact Us

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<https://www.eng.tohoku.ac.jp/english/life/s-programs.html>

Youtube: **【SMEC2017】**<https://youtu.be/P81GFvKC--w>

Article 2017:

https://www.tohoku.ac.jp/en/news/university_news/tesp_2017_eng_inering.html