



TSSP2014

TOHOKU UNIVERSITY SCIENCE SUMMER PROGRAM

Advanced Science and Technology at Tohoku University

June 30 - July 11, 2014

About Tohoku University

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

TSSP 2014

This summer, we will launch the **Tohoku University Science Summer Program (TSSP)**, which is designed for undergraduates majoring in science and engineering. The program offers cutting edge classes in advanced sciences and engineering. Our aims are to provide students with insight on what world society needs based on advanced science and technology in the future and how they can contribute to society through research. The participants will have an opportunity to participate in 8 lectures with facility/ laboratory visits. At the end of the program students will make a presentation according to the topics given by each lecturer. The following subjects will be covered in our series of lectures with facility/laboratory visits.

- *The 2011 Tohoku Earthquake -Geological Environment and Earthquakes-*
- *Spintronics* • *Computer Vision in Robotics* • *Robotics* • *Neutrinos*
- *Carbon Nanotube* • *Modern Physical Chemistry* and more

*Topics are subject to change.

Along with the opportunity to explore advanced science and engineering through the lecture series, we offer Japanese language lectures, field trips to cultural sites and areas struck by the 2011 Tohoku earthquake, Japanese culture workshops and many opportunities to collaborate and interact with Tohoku University students.

Application Procedures

To apply for this program, students must be nominated by their home institutions and submit all the documents through their home institutions. Prospective students need to submit the following documents via **E-mail**.

1. "Application Form for TSSP2014"
2. ID Photo (4cm x 3cm) on the application form
3. Personal statement (300-500 words)
4. Photocopy of passport (Page with student's photo)
5. *"Application Form for the JASSO Scholarship"
6. *Official transcript in English

*Please submit these documents only if you wish to apply for JASSO Scholarship.

Application Deadline

April 30, 2014

Eligibility

Applicants must be enrolled in full-time undergraduate degree programs at one of the following institutions.

The program requires students to be fluent in English.

China

Tsinghua U
Wuhan U of Technology
Zhejiang U
Tianjin U
Northeastern U

Singapore

National U of Singapore

Thailand

Suranaree U of Technology
King Mongkut's I of Technology Ladkrabang
Chulalongkorn U
Thammasat U
Chiang Mai U
King Mongkut's I of Technology Thonburi

Indonesia

U of Indonesia
Gadjah Mada U
Bandung I of Technology
Bogor Agricultural U

Australia

U of Sydney
U of New South Wales
Australian National U

France

U of Rennes 1
U of Grenoble
École Centrale de Lille
École Centrale de Lyon
École Centrale de Marseille
École Centrale de Nantes
École Centrale de Paris

Germany

U of Göttingen
Karlsruhe I of Technology
U of Heidelberg
Technical U of Berlin

Switzerland

Swiss Federal I of Technology, Lausanne
Swiss Federal I of Technology, Zurich

Finland

Aalto U
U of Oulu
Stockholm U

Sweden

Uppsala U
Royal I of Technology

Russia

Moscow State U
Novosibirsk State U
U of Nizhny Novgorod
Far Eastern Federal U

United States of America

Pennsylvania State U
U of California, Berkeley
U of California, Davis
U of California, Irvine
U of California, Los Angeles
U of California, Riverside
U of California, San Diego
U of California, San Francisco
U of California, Santa Barbara
U of California, Santa Cruz
U of California, Merced
Purdue U
U of Hawaii at Manoa

Canada

U of Waterloo

Credits

Participating students are required to take 10 lectures (20 hours), attend facility/laboratory visits and participate in group work sessions, after which they will give presentations with their groups. On completing these requirements, students should be eligible for 4 ECTS*.

These credits are not conferred at Tohoku University. Students who require credits for this program should inquire at their home universities.

**1 ECTS credit is equivalent to 25 hours of work.*

**ECTS credits are a value allocated to course units to describe the student workload required to complete them.*

Number of Seats

40 students

Accommodation

Each participant will be accommodated in a furnished individual bedroom with a unit bathroom at a hotel located in a convenient area. The cost for the entire stay will be JPY54,600-65,000 for 13 nights (JPY4,200-5,000 per night) depending on the number of participants.

Program Fee

JPY20,000 (incl. tuition, field trips, Japanese culture workshops and other activities)

Accommodation, travel and everyday expenses should be paid individually. Students are advised to prepare sufficient money for food and personal expenses.

Scholarship

Qualified students may apply for Japan Student Services Organization (JASSO) scholarship of 80,000 yen. Please refer to the JASSO Scholarship Information sheet for the qualifications and procedure.

Tohoku University Center for International Exchange

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Website: <http://www.insc.tohoku.ac.jp/cms/index-e.cgi?pg=100915145040>