Exploring Advanced Science & Technology

TOHOKU UNIVERSITY SCIENCE SUMMER PROGRAM 2016

July 4th to July 15th, 2016

What's TSSP?

TSSP is designed for undergraduates majoring science and engineering. It aims 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. Program participants will have an opportunity to experience lectures with facility/laboratory visits followed by a final presentation based on group work. Topics covered in this program are:

Spintronics – Computer Vision in Robotics – Robotics – Neutrinos – Carbon Nanotube – Modern Physical Chemistry – The 2011 Tohoku Earthquake and more. (Topics are subject to change.)

In addition to exploring advanced science and technology, there will be Japanese language classes and field trips to historical sites, as well as workshops in Japanese traditional culture. Students will also have many opportunities to interact with Tohoku University students.

Tohoku University

Tohoku University, located in Sendai City, was founded in 1907 as Japan's third national university. It continues to be an innovative university committed to the principles of "Research First" and "Open Doors". For details, please visit: http://www.tohoku.ac.jp/en/

About Sendai

With a population of 1 million, Sendai (located around 300 km northeast of Tokyo -only 1.5 hours by "*Shinkansen*" bullet train) is the largest city in the Tohoku region and is known as the City of Trees (*Mori no Miyako*).

PROGRAM

SCHEDULE

[TSSP]: Monday 4th July, 2016 to Friday 15th July, 2016

Applying for two consecutive terms (ex. TSSP and TUJP-2) is not allowed.

ELIGIBILITY

- Full-time undergraduate students at designated partner universities of Tohoku University (Listed as 'Designated Institutions' on the "COURSES" page.)
- Sufficient English ability (equivalent to TOEFL iBT 70 or PBT 520)
  *Students must be enrolled in their home universities during this program.
  *All classes and instructions are provided in English.

PROGRAM FEE

1 USD = 120 JPY, as of January 2016

Program fee (¥20,000) to be paid in cash on the first day	+	**Accommodation (¥61,100)** for 13 nights. To be paid directly to the hotel when checking out	=	**Total** **¥81,100** **(about US $680)**

Program fee includes: tuition, field trips, homestay, certificate, and activities.

Travel, accommodation, insurance, meals, and personal daily expenses should be paid individually.

SCHOLARSHIP OPPORTUNITY

A Japan Student Services Organization (JASSO) scholarship may be awarded to those who meet the requirements below and attend the entire program. You can apply by completing the JASSO scholarship application form available from our website.

Minimum requirement for JASSO scholarship:	**GPA of 2.30 of 3.00** **(JASSO's GPA calculation methods)**
Scholarship amount:	¥80,000

CREDITS

On completing the program successfully, students should be eligible to earn 4ECTS*.

* 1ECTS is equivalent to 25 hours of work. ETCS credits are a value allocated to course units to describe the student workload required to complete them. Please note that those credits are not conferred at Tohoku University, so each participant needs to negotiate with his/her home institution with the transcripts we issue.

COURSES

The participants will have an opportunity to participate in 8 lectures with facility/ laboratory visits. At the end of the program students will make presentations on the topics given by each lecturer.

<table>
<tr><th colspan="8">1st WEEK</th></tr>
<tr><th></th><th>Mon.</th><th>Tue.</th><th>Wed.</th><th>Thu.</th><th>Fri.</th><th>Sat.</th><th>Sun.</th></tr>
<tr><td>TSSP</td><td>4-Jul</td><td>5-Jul</td><td>6-Jul</td><td>7-Jul</td><td>8-Jul</td><td>9-Jul</td><td>10-Jul</td></tr>
<tr><td rowspan="2">AM</td><td rowspan="3">Welcome Ceremony & Orientation</td><td colspan="2">Japanese Language</td><td colspan="2">Lectures & Lab Visits</td><td rowspan="3">Field Work</td><td rowspan="3">Free</td></tr>
<tr><td colspan="4">Lunch</td></tr>
<tr><td>PM</td><td colspan="2">Lectures & Lab Visits</td><td>Culture</td><td>Preparation</td></tr>
</table>

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<tr><th colspan="8">2nd WEEK</th></tr>
<tr><td>TSSP</td><td>11-Jul</td><td>12-Jul</td><td>13-Jul</td><td>14-Jul</td><td>15-Jul</td><td>16-Jul</td><td>17-Jul</td></tr>
<tr><td>AM</td><td colspan="3">Lectures & Lab Visits</td><td rowspan="2">Field Trip</td><td rowspan="2">Presentation & Farewell party</td><td rowspan="2"></td><td rowspan="2"></td></tr>
<tr><td>PM</td><td>Lecture & Lab Visit</td><td>Culture</td><td>Group Work</td></tr>
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Schedule and contents are subject to change without prior notice.

Designated Institutions

Korea
KAIST
Pohang U. of Science and Technology
Seoul National U.
Sungkyunkwan U.
China
Northeastern U.
Tsinghua U.
Wuhan U. of Technology
Zhejiang U.
Hong Kong
Hong Kong UST
Singapore
National U. of Singapore
Thailand
Chiang Mai U.
Chulalongkorn U.
KMIT Ladkrabang
KMUT Thonburi
Suranaree U. of Technology
Thammasat U.
Thai-Nichi Institute of Technology
Indonesia
Bandung I of Technology
Bogor Agricultural U.
Gadjah Mada U.
U. of Brawijaya
U. of Indonesia
Malaysia
U. of Malaya

Australia
Australian National U.
U. of Melbourne
U. of New South Wales
U. of Sydney
France
École Centrale de Lille
École Centrale de Lyon
École Centrale de Marseille
École Centrale de Nantes
École Centrale de Paris
(CentraleSupélec)
U. of Grenoble
U. of Rennes 1
Germany
Karlsruhe I of Technology
RWTH Aachen U.
Technical U. of Berlin
U. of Göttingen
U. of Heidelberg
Netherlands
Delft U. of Technology
U. of Twente
Switzerland
EPFL
ETH Zurich
Sweden
Chalmers U. of Technology
Royal I of Technology (KTH)
Stockholm University
Umeå U.
Uppsala U.

Finland
Aalto U.
Tampere U. of Technology
U. of Oulu
Russia
Far Eastern Federal U.
Moscow State U.
Novosibirsk State U.
Saint Petersburg State U.
U. of Nizhni Novgorod
United States of America
Case Western Reserve U.
Michigan State U.
Pennsylvania State U.
Purdue U.
U. of California, Berkeley
U. of California, Davis
U. of California, Irvine
U. of California, Los Angels
U. of California, Marced
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 Hawaii at Manoa
U. of Maryland
U. of North Carolina at Charlotte
U. of Washington
Canada
U. of Ottawa
U. of Waterloo

APPLICATION

- → **For Students:** Contact your international affairs office to apply. Students must be nominated by their home institutions. Nominated students are required to fill in the online application form and upload the required documents no later than the deadline below.
- → **For International Affairs Office Staff:** Please nominate students from those interested, and send a list of candidates via email to: tujp@grp.tohoku.ac.jp . Also please provide a link for the online application form sent separately to only those nominated. Applicants are required to apply via the online application form and upload the following supporting documents by the deadline below.

Required documents:

1. Applicant's portrait photo (4 cm x 3 cm)
2. Transcript from the previous academic year in English
3. Photocopy of passport (page with applicant’s photo)
4. Personal Statement (300-500 words/reasons for applying)
5. Copy of English language ability certificate and scores
6. Application Form for Japan Student Services Organization (JASSO) Scholarship with hand-written signature (if applicable)

Program	TSSP
Deadline for Application	March 31, 2016 (JST)
Admission Notification	Late April, 2016
Arrival	July 3, 2016
Welcome Ceremony	July 4, 2016
Farewell Ceremony	July 15, 2016
Accommodation Check-out	July 16, 2016

ACCOMMODATION

Each student will stay in a furnished bedroom with a unit bathroom at a hotel located in a convenient area. Breakfast is not included but is available upon request (¥800/meal). Participants will need to pay accommodation fees at the end of the program directly to the hotel (¥61,100 total).

MEDICAL INSURANCE

Summer 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 death and medical care expenses not only due to accidental bodily injury but also for sickness.

VISAS

Those who need a visa to enter Japan should indicate this on their application forms. Tohoku University will provide an invitation letter to admitted students. Passport holders of certain countries do not need a visa to enter Japan for periods of less than 90 days.

CONTACT

Tohoku University Global Learning Center/Student Exchange Division
41 Kawauchi, Aoba-ku, Sendai, Miyagi 980-8576, Japan
Website: http://www.insc.tohoku.ac.jp/english/short/tssp/
Email: tusp@grp.tohoku.ac.jp