



# TSSP2015

TOHOKU UNIVERSITY SCIENCE SUMMER PROGRAM

## Advanced Science and Technology at Tohoku University

July 6 - July 17, 2015

### 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 2015

This summer, we will host 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 and historical 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

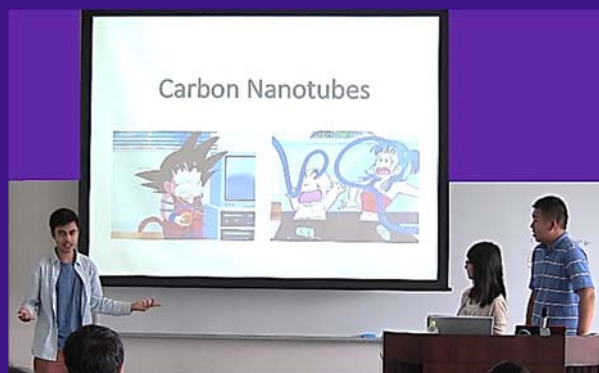
To apply for this program, students must be nominated by their home institutions and submit all the documents through their home institutions. Prospective students need to submit the following documents via **E-mail**. If you will apply to both TSSP and TUJP, please send the documents to both programs.

1. "Application Form for Tohoku University Summer Programs 2015"
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, 2015



## 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  
Hong Kong U of Science and Technology

### Singapore

National U of Singapore

### Thailand

Suranaree U of Technology  
King Mongkut's I of Technology Ladkrabang  
King Mongkut's I of Technology Thonburi  
Chulalongkorn U  
Thammasat U  
Chiang Mai U  
Thai-Nichi Institute of Technology

### Indonesia

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

### 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

### Sweden

Uppsala U  
Royal I of Technology  
Stockholm U  
Chalmers U of Technology

### Russia

Moscow State U  
Novosibirsk State U  
U of Nizhni Novgorod  
Far Eastern Federal U  
Saint Petersburg State 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, Marced  
Purdue U  
U of Hawaii at Manoa  
U of Washington

### 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.

## 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.

## Number of Seats

45 students



Tohoku University Global Learning Center

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