Introduction of
Tokyo Institute of Technology
(Tokyo Tech)
and
Main Purpose of the Workshop
including related activity at Tokyo Tech

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Tokyo Institute of Technology
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Views of Tokyo Tech
Views of Tokyo Tech

Ginkgo street (November)  

Library
Main Purpose of the Workshop

**Background**
- To enhance education and research quality in universities for more internationalization
- To enhance disruptive innovation to accelerate the changeover in the industrial structure globally for developing global market

**Idea**
- To enhance collaboration among world-class universities involving industrial partners across borders

**Purpose of the workshop**
- To explore effective exchange scheme of students/faculties in university and researchers/engineers in industries for development of human resources through international research collaboration
- To explore themes of international collaborative research projects among Tokyo Tech, EPFL and industries in Japan and Switzerland
- To exchange information on the state of the art and the strategy for accelerating innovation
- To provide opportunity for industrial partners to communicate with technology start-ups for creating new business chances
State of the Art and Related Topics in Tokyo Tech

- Programs for International Students
- International Standing and Reforms in Education and Research
- Strategic Research Alliance Program with Industries
- Tokyo Tech International University-Industry Collaboration Workshops/Symposia
Programs for International Students
(Number of Students)

Total 1,241
(ca. 12.4%)
(As of May 1, 2012)

<table>
<thead>
<tr>
<th>Country</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>495</td>
</tr>
<tr>
<td>Korea</td>
<td>145</td>
</tr>
<tr>
<td>Thailand</td>
<td>117</td>
</tr>
<tr>
<td>Vietnam</td>
<td>73</td>
</tr>
<tr>
<td>Indonesia</td>
<td>71</td>
</tr>
<tr>
<td>Malaysia</td>
<td>32</td>
</tr>
</tbody>
</table>

Europe (84)
Middle East + Africa (51)
Asia (1053)
Oceania (1)
North America (23)
Central and South America (29)
Programs for International Students (Prospectus for International Students)

- **International Graduate Program (IGP)**
- **International Visiting Students (from non-partner universities)**
  1. short-term: less than one year
  2. required: application, admission, and tuition fees
- **International Exchange Students (from partner universities)**
  1. institute-wide programs (exchange students with tuition wavers)
     a. Academic Cooperation Agreement Program (ACAP)
     b. Young Scientist Exchange Program (YSEP)
  2. Departmental Exchange Programs
     a. Summer Exchange Research Program (SERP) (Graduate School of Science and Engineering)
     b. five additional departments have programs
- **Research Students**
  1. privately-funded students
  2. students on Japanese government scholarships

For more detailed information on the prospectus, please refer to the following website:
http://www.iad.titech.ac.jp/intl_students/prospectus_e.html
Programs for International Students
(International Graduate Program (IGP))

• 9 full degree programs since 2007
• 3 types of programs
  - Master’s Program
  - Doctoral Program
  - Integrated Doctoral Education Program
• Lectures and seminars conducted in English

For more details, please refer to the following website.
http://www.gakumu.titech.ac.jp/nyusi/prospectus/english/cat22/detail_106.html
Programs for International Students  
(International Exchange Students from partner universities)

• **Academic Cooperation Agreement Program (ACAP)**  
  for undergraduate and graduate students  
  **Activity**  
  ✓ Study (Enrollment in courses offered)  
  ✓ Research in a research lab under the guidance of an academic advisor  
  **Period:** From 3 months to 1 year  
  **Payment:** application, admission and tuition fees are waived from EPFL  
  **Scholarship:** Applicable [JASSO Scholarship] Monthly Stipend: 80,000 JPY

• **Young Scientist Exchange Program (YSEP)**  
  for undergraduate students (seniors)  
  **Activity**  
  ✓ Experience of research project under the guidance of an academic advisor  
  ✓ Experience of Japanese language/culture  
  **Period:** 1 year or 1 semester  
  **Payment:** application, admission and tuition fees are waived from EPFL  
  **Scholarship:** Applicable [JASSO Scholarship] Monthly Stipend: 80,000 JPY
# International Standing in Education and Research

## World Rankings by Faculty/Subject

<table>
<thead>
<tr>
<th>Subject</th>
<th>Rank (World)</th>
<th>Rank (Japan)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering &amp; Technology</td>
<td>22nd</td>
<td>2nd</td>
</tr>
<tr>
<td>Materials Science &amp; Chemistry</td>
<td>20th</td>
<td>3rd</td>
</tr>
<tr>
<td>Natural Science</td>
<td>26th</td>
<td>3rd</td>
</tr>
</tbody>
</table>

(2014)
Tokyo Tech hold the 1\textsuperscript{st} position among the Japanese Universities while its world ranking is 14\textsuperscript{th} and its Asia ranking is 2\textsuperscript{nd} after Peking Univ.
Our Goal

To become one of the world’s top ten research universities

Education
Produce graduates who will thrive in a global society as the world’s top researchers and leaders

Research
Achieve worldwide success in research and innovation & develop infrastructure to enhance research

Globalization
Create a global environment for education and research

Contribution to Society
Contribute to society through research and educational achievement
Top Global University Project
by Ministry of Education,
Culture, Sports, Science and Technology

• It aims to enhance the international compatibility and competitiveness
  of higher education in Japan

• It provides prioritized support for the world-class
  and innovative universities that lead internationalization

• Selected universities are expected to press forward
  with comprehensive internationalization and university reform

<table>
<thead>
<tr>
<th>Type A (Top Type)</th>
<th>Type B (Global Traction Type)</th>
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<tbody>
<tr>
<td>The Top Type is for world-class universities that have the potential to be ranked in the top 100 in world university rankings.</td>
<td>The Global Traction Type is for innovative universities that lead the internationalization of Japanese society, based on continuous improvement of their current efforts.</td>
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</table>
## Top Global University Project

### List of Selected Plans: Type A

<table>
<thead>
<tr>
<th>University</th>
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<tbody>
<tr>
<td>Hokkaido University</td>
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<tr>
<td>Tohoku University</td>
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<tr>
<td>University of Tsukuba</td>
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<tr>
<td>The University of Tokyo</td>
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<tr>
<td>Tokyo Medical and Dental University</td>
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</table>

**Enhancing Tokyo Tech Education and Research Quality through Administrative Reforms for Internationalization**

<table>
<thead>
<tr>
<th>University</th>
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<tbody>
<tr>
<td>Nagoya University</td>
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<tr>
<td>Kyoto University</td>
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<tr>
<td>Osaka University</td>
</tr>
<tr>
<td>Hiroshima University</td>
</tr>
<tr>
<td>Kyushu University</td>
</tr>
<tr>
<td>Keio University</td>
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<tr>
<td>Waseda University</td>
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</table>
Tokyo Tech and Massachusetts Institute of Technology (MIT) held joint workshops at Boston (On September 22, 2014) and Tokyo Tech (January 7, 15).

Tokyo Tech and RWTH Aachen University held a joint workshop at Tokyo (March 30, 2015), and will hold 2\textsuperscript{nd} workshop at Aachen on June 11-12, 2015.

This two-days workshop with École polytechnique fédérale de Lausanne (EPFL) is the third university-industry collaboration event this year.

Further collaborations with other universities are planned.
Purpose of International Collaborative Research Program among World-class Universities Involving Industrial Partners Across Borders

✓ To provide effective opportunities to students/faculties in universities and researchers/engineers in industries for development of human resources
✓ To conduct world-class, transformative research
✓ To provide young researchers and engineers with opportunities for international research projects and education
✓ To develop innovative businesses based on high-level science and technology
✓ To provide opportunity industrial partners in both countries to collaborate with academics in foreign country together with academics in their home country
I hope this workshop will lead to our fruitful collaboration.

Thank You