Tohoku University's Strategy for Human Resources

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Director, International Exchange Division
Tohoku University

ABSTRACT

Tohoku University enacted Principles of Strategy for International Exchange on 8 March 2005 and we have established GOC (Global Operations Centre) on the first day of June 2005 supported by the Ministry of Education, Culture, Sports, Science and Technology.

The Centre will be an administrative headquarters for all matters related to international exchanges, and will serve to devise and put into action a united set of strategies in all faculties.

The Center is aimed to create an environment for academic staff to make Tohoku University as an internationally competitive university with highly acclaimed world-class research and education and to ensure the university is well-equipped to maintain a position of excellence in the global academic community.

Last year, Tohoku University introduced a Double Degree Programs with French Grandes Ecoles and Joint Educational Program with Tsinghua University in China to promote exchange of well-selected students with Prominent Educational Institutions overseas.
Sendai is surrounded by natural beauty:

Matsushima, a picturesque seacoast,

Sendai is a capital city in the Northern part of Japan

The site of Aoba Castle, where Tohoku University is located.
Founded in 1907 as the 3rd Imperial University

Lu Xun ("Rojin"), entered Tohoku U. in 1904

Dr. Albert Einstein visited Tohoku University on Dec. 3, 1922

Chika Kuroda, the first woman. Tohoku U. admitted a female student for the first time among all the national universities in Japan in 1913.

Dr. Niels Bohr and Mrs. Bohr visited Tohoku University on May 2, 1937
**Number of Board Members and Staff**

As of November, 2006

<table>
<thead>
<tr>
<th>Position</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>1</td>
</tr>
<tr>
<td>Executive Directors</td>
<td>7</td>
</tr>
<tr>
<td>Auditor</td>
<td>2</td>
</tr>
<tr>
<td>Faculty Members</td>
<td>2,699</td>
</tr>
<tr>
<td>Prof.</td>
<td>838</td>
</tr>
<tr>
<td>Assoc. Prof.</td>
<td>641</td>
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<tr>
<td>Lect.</td>
<td>176</td>
</tr>
<tr>
<td>Research Assoc.</td>
<td>1,044</td>
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<td>Administrative and technical staff</td>
<td>2,436</td>
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<td>Total</td>
<td>5,145</td>
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**Number of Students**

As of May, 2006

<table>
<thead>
<tr>
<th>Level</th>
<th>Number</th>
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</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>10,815</td>
</tr>
<tr>
<td>Master</td>
<td>4,175</td>
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<tr>
<td>Doctor</td>
<td>2,870</td>
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<td>Total</td>
<td>17,860</td>
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</table>

**Major research projects of Tohoku University**

The 21st Century COE Program(13)

- Future Medical Engineering based on Biotechnology
- International Center of Research & Education for Unexplored Chemistry
- System Construction of Global-Network Oriented Information Electronics
- Center for Innovative Therapeutic Development for Common Diseases
- Advanced Science and Technology Center for the Dynamic Earth
- Center for the Study of Social Stratification and Inequality
- Comprehensive Research and Education Center for Planning of Drug Development and Clinical Evaluation
- International COE of Flow Dynamics
- Gender Law and Policy Center
- International Center of Research & Education for Unexplored Chemistry
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- International COE of Flow Dynamics
- Center for the Study of Social Stratification and Inequality
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- International COE of Flow Dynamics
- Center for the Study of Social Stratification and Inequality
- Comprehensive Research and Education Center for Planning of Drug Development and Clinical Evaluation

**Mr. Koichi TANAKA, Nobel Laureate**

- Born in Toyama, Japan
- Graduated from Department of Electrical Engineering, School of Engineering, Tohoku University
- Researcher in Shimadzu Corporation
- The Nobel Prize in Chemistry 2002
- "The development of methods for identification and structure analyses of biological macromolecules"
- Honorary Doctor of Tohoku University
## Principles of Strategy for International Exchange

Promote the world’s highest standards of research through active participation in an international academic network.

Invite and gather the highly motivated, capable and talented individuals from all over the globe and cultivate international leaders who can contribute to the advancement of world development.

Communicate our accomplishments in education and research internationally and contribute them to the international community.

Strengthen the foundations of research and education and increase the university’s international recognition to support realization of the three above goals.

## Global Operations Centre (GOC)

**Establishment**
Global Operations Centre (GOC) was established on June 1st, 2005 as the base for international strategy of Tohoku University, financially supported under the "Strategic Fund for Establishing International Headquarters in the Universities" Program of the Ministry of Education, Culture, Sports, Science and Technology.

**Function**
This Centre will be the administrative headquarters for all matters related to international exchanges and will serve to devise and activate a united set of strategies in all its faculties.

**Purpose**
The Centre is aimed to create an environment for academic staff in establishing Tohoku University as an internationally competitive university highly acclaimed with world-class research and education and to ensure that the university is well-equipped to maintain a position of excellence in the global academic community.

## Global Operations Centre (GOC) structure

![Diagram of Global Operations Centre (GOC) structure]
Agreements on Academic Exchange with Foreign Universities

- In Black: Agreement on the University Level — Total of 91 universities (as of October, 2006)
- In Green: Agreement on the Department Level — Total of 241 departments

Institute of Physics, CAS

Harvard University

University of Cambridge

Moscow State University

Syracuse University

KAIST

Stanford University

Russian Academy of Sciences

Institute National des Sciences Appliquees de Lyon

Royal Institute of Technology

University of Cambridge

Russian Academy of Sciences

As of May, 2005

Liaison Office

11 offices in the world

University of Cambridge

Moscow State University

Syracuse University

KAIST

Institute National des Sciences Appliquees de Lyon

Royal Institute of Technology

University of Cambridge

Russian Academy of Sciences

As of May, 2005

TOHOKU UNIVERSITY
Sendai, Japan

Number of International Students

As of May, 2006

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
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<tbody>
<tr>
<td>Undergraduate School</td>
<td>126</td>
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<tr>
<td>Graduate School</td>
<td>778</td>
</tr>
<tr>
<td>Others</td>
<td>290</td>
</tr>
<tr>
<td>Total</td>
<td>1,194</td>
</tr>
</tbody>
</table>
Number of International Students

Breakdown by Country and Region

- **Asia**: 998 (82.7%)
- **Europe**: 74 (6.2%)
- **Africa**: 31 (2.6%)
- **Middle and Near East**: 45 (3.8%)
- **North America**: 22 (1.8%)
- **Central and South America**: 29 (2.4%)
- **Oceania**: 5 (0.4%)
- **Others**: 311

Total: 1,194

As of May, 2006

Number of Tohoku University's Students Sent Abroad

Breakdown by Region

- **Asia**: 472
- **North America**: 205
- **Europe**: 22
- **Oceania**: 5
- **South America**: 5
- **Others**: 44

Total: 120

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How to foster students

Interact with global academic community actively

1. Participation in Conventional Exchange Program
   - Collège doctoral franco-japonais (with French government)
   - Programme 8
   - Short-term (within 1 year) exchange with partner universities

2. New Joint Educational Initiatives with Prominent Higher Educational Institutions overseas
   - Double Degree Programs with French Grandes Écoles
   - Joint Education Program with Tsinghua University

3. Providing of Scholarships and the practical language training courses (some significant issues still remain to be resolved)

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Exchange of well-selected students with Prominent Educational Institutions overseas

1. Double Degree Programs with French Grandes Écoles
   - These programs allow French and Japanese Students to obtain a Master Degree of Engineering or Science from Tohoku University and Diplôme d’Ingénieur from French grandes écoles simultaneously.

2. Joint Educational Program with Tsinghua University (China)
   - This program allow Chinese Students to obtain a Master degree of Engineering or Science from Tohoku University within a period of a year and a half by transferring acquired credits from Tsinghua University, and vice versa for Japanese Students.
Target Goal

Tohoku University is aiming to become a “World’s Leading University” amongst the top 30 in the world.

Akihisa Inoue
President and Academician
Tohoku University