Global Technology Initiative Consortium

Fostering Human Resources & Driving Innovations

GTI Consortium

A Platform for Global Development of Science and Engineering Professionals

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It goes without saying that globalization is progressing worldwide, but when we see that events in some parts of the planet have such an impact that they shake the world's economy and logistics, we realize that our existence is shaped by a mutual interdependence. At such a time, for the world to develop sustainably, there is a need for capable experts who respect different cultures and can solve global problems in cooperation with others from different backgrounds. There is also an increased demand from industry to nurture professionals who can play an active role in helping international society keep pace with this process of globalization. Universities, with the aid of the government, have been actively promoting study abroad programs to foster such talented individuals.

Universities have a responsibility, not only as educational institutions but also as research institutions. With the rapid development and advancement of industry, most universities are now actively promoting joint research between industry and academia. Companies have begun to value the knowledge of universities' more highly and, in response, universities have been able to more effectively contribute their research findings to society by responding to this need. It is also known that joint research has a positive educational effect on students; allowing them to acquire knowledge and skills and gain practical experience at the same time. The government has focused on promoting joint research because of such positive outcomes and, in recent years, has also encouraged the incorporation of industry input into the design of educational curricula and the hiring of faculty members with a certain level of business experience.

As the result of these important trends, the Global Technology Initiative Consortium (GTI Consortium) was established in 2015 with the goal of fostering the development of professionals in science and engineering who can positively impact the world' s future through closer cooperation between industry, academia, and government. The GTI Consortium will play a role as a platform for the development of such experts, with a special focus on Southeast Asia, where we have close ties related to both industry and student exchange.

Purpose

Assuring the quality of engineering and science education	Enhancing the industry-academia-government collaboration and providing practical training and education will help assure the quality of engineering and science education.
Fostering human resources	The quality of engineering and science education will develop global engineers.
Driving innovations	Innovations will be brought by global engineers who work efficiently anywhere in the world.
Enforcing industry competitiveness	Industry competitiveness will be enhanced by innovations that have been created by global engineers.

Main activities of the GTI Consortium

1 Global Project Based Learning (PBL)

Students from member universities in the GTI Consortium form international teams to discuss challenging technical issues facing member companies or environmental concerns facing developing countries.

Students put forward their proposals and present their ideas at the end.

University faculty members, authorities working at member companies and government agencies will manage the entire project, including setting of the challenge and facilitating its discussions, right through to overseeing the final presentations.

Through global PBL we will foster the competences necessary for today's global engineers.

2 Global Internship

Students do internships at firms and factories overseas. They experience cultural diversity, understand different approaches to problem solving and better understand up to date manufacturing issues. Through creative problem framing and solving, students learn the importance of critical thinking from differing perspectives, important for today's global engineering challenges.

3 International Joint Research

Member universities and companies in the GTI Consortium jointly tackle global aspects of sustainable developments through the joint researches.

4 Inter-Governmental Projects

Member universities and companies take part in ongoing national aid projects based on intergovernmental agreements and international joint research projects. GTI Consortium itself will also plan and propose new intergovernmental projects.

5 Inter-University Collaboration

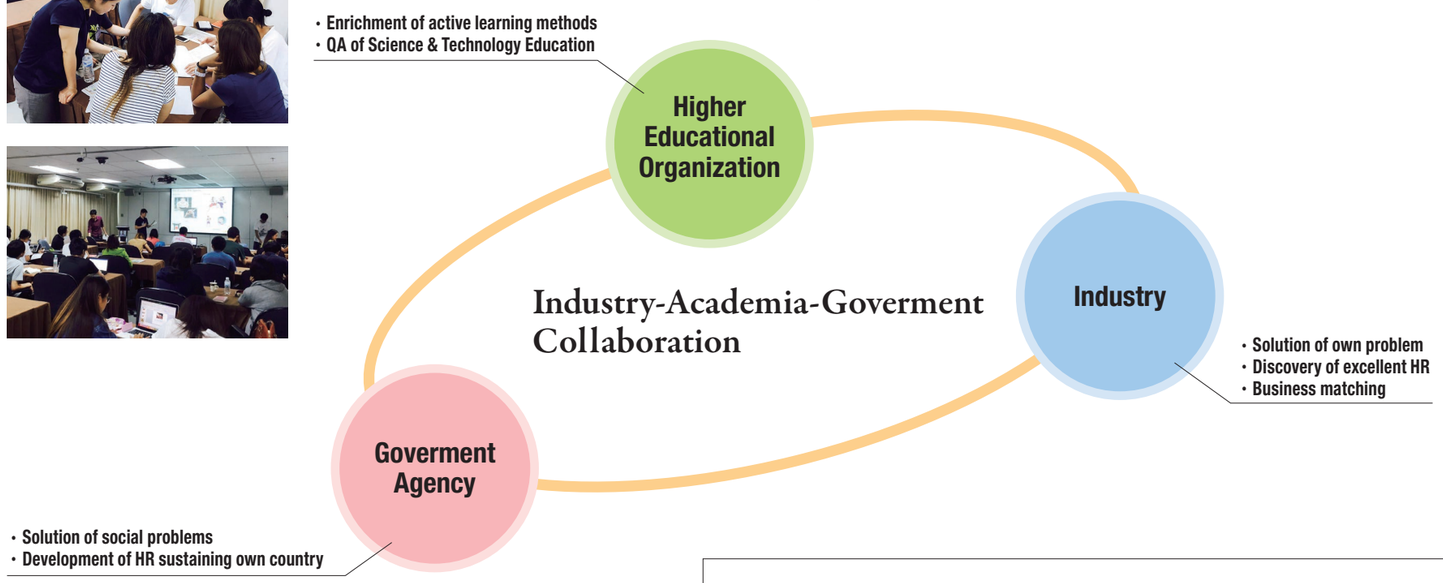
Member universities commence an exchange program involving faculty members among universities in the GTI Consortium. The aim of this to design and implement global engineering and science education based upon Japanese craftsmanship. Degrees are conferred on international students studying in Japan, and we introduce joint degree program involving member universities.

6 GTI Consortium Symposium

GTI Consortium symposium is held to share knowledge from activities in the GTI Consortium and to promote further development.

Participants from government agencies, global industries and educational institutes will be invited, extending invitations to university students to share and present their recent findings.

*The management of necessary expenses, conservation and management of confidential information, handling of deliverables such as intellectual property, and any other issues generated by individual activities among GTI members should be well discussed, determined and operated under the responsibility of each party concerned.



How to participate in the GTI consortium

We wait for the participation in the GTI Consortium from various corporations and organizations who support the vision of the GTI.

Achievements and experiences through the activities of the GTI Consortium are to be shared among the members.

Preconditions for participation	A GTI member in the GTI Consortium; 1. understands and supports the vision of the GTI Consortium 2. has a corporate body (enterprise, university, organization, institution, etc.) 3. participates in activities of the GTI Consortium
Membership fees	No membership fees are required. Each member is responsible for expenses such as transportation fees for participating in symposiums.
Application procedures	Please visit the GTI Consortium website for membership application. http://www.gti-consortium.jp

Organizing Committee for GTI Consortium

IHI Corporation
NTT DATA Corporation
The Tokyo Higashi Shinkin Bank
Bosch Corporation
Sumitomo Mitsui Banking Corporation
Sumitomo Mitsui Construction Co., LTD.
Mitsubishi Electric Corporation
Japan International Cooperation Agency
New Energy and Industrial Technology Development Organization
Japan External Trade Organization
Kogakuin University
Shibaura Institute of Technology
Tokyo Denki University
Tokyo City University
Fukuoka Institute of Technology

Advisory Member

Hanoi University of Science and Technology（HUST） Hanoi, Vietnam
Ho Chi Minh City University of Technology（HCMUT） Ho Chi Minh, Vietnam
King Mongkut's University of Technology Thonburi（KMUTT） Bangkok, Thailand
Suranaree University of Technology（SUT） Nakhon Ratchasima, Thailand
Thai-Nichi Institute of Technology（TNI） Bangkok, Thailand
Universiti Technologi Malaysia（UTM） Johor Bahru & Kuala Lumpur, Malaysia
Malaysia-Japan International Institute of Technology（MJIIT） Kuala Lumpur, Malaysia
Universitas Gadjah Mada（UGM） Yogyakarta, Indonesia
Institut Teknologi Bandung（ITB） Bandung, Indonesia

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