

# Re-Inventing Japan Project

[Name of Project] (Adopted year: FY2011, Type B-II)

Development of Japan-EU Collaborative Program for Nurturing Global Engineers

[Aim of project, Ideals of Global Human Resource on the project]

We offer various educational programs to students by participating in international collaborative ventures in higher education in fields of science and technology and aim to train talented engineers who can surmount differences in language and culture and play an active role internationally.

[Summary of project]

By cooperating with higher education institutions of science and technology within the EU, we train engineers who can form solutions to problems common throughout the world with a global vision. We aim to create an environment that breeds a global sense throughout campus through the development of double degree master's programs, international collaborative ventures through joint guidance of Ph.D. program students, and introductory programs and preparatory courses for undergraduate students.

## Forming the University Network with Quality Assurance

### Development of a Double Degree Master's Program

Keio expanded the number of partner universities and secured students from these partner universities and dispatched faculty members to participate in mutual exchange with its partner European universities of science and technology, which are members of Top Industrial Managers for Europe (T.I.M.E. Association). Active student exchange was achieved through extensive dialogue concerning applicant interviews, student advisement and curriculum, and universities' capabilities to accommodate international students.

### Development of International Collaborative Ventures Through Joint Guidance of Ph.D. Students

Keio conducts mutual exchange of faculty members and students to renowned universities throughout the world and aim to cultivate future industry leaders who will play an active role globally by carrying out joint guidance for students from both institutions. Additionally, under the joint guidance carried out this past academic year, discussions concerning development of double degree Ph.D. programs have gained momentum and have opened up the door for future cooperative relationships with universities outside of Europe.

Class in Progress



## Contents of the Programs, Preparations for the Start of the Programs

Class in Progress



### Offering Introductory Programs and Preparatory Courses for Undergraduate Students

As preparation for study abroad, Keio sent 63 undergraduate students abroad to attend multiple types of short-term training over school vacation periods. Moreover, in preparation for overseas training to be held next academic year, called the "Global Leadership Seminar," Keio sent faculty members abroad to decide details on the appropriate time frame, schedule, and faculty members' roles in the training, and to conduct inspections of appropriate venues.

### Summer Program to Introduce Study Abroad in Japan to Partner University Students

Keio held an experimental Japanese-language summer school during summer vacation for international students entering a Keio graduate program from partner universities which have a double degree program with Keio. This summer school not only offered opportunities for Japanese language study, but also provided activities such as homestays, calligraphy lessons, and field trips as part of an introduction to Japanese culture.

## Student - Mobility

### Outbound Students from Keio

Keio sent students abroad for its double degree master's programs, joint guidance for Ph.D. students, and spring and summer overseas training for undergraduate students as a part of the "Undergraduate Education System Towards Training Global Human Resources," in addition to internships and summer schools.

### Inbound International Students from Partner Universities

Keio conducted double degree programs, summer schools, Ph.D. candidate intake, and other research and training programs.

	2011	2012	2013	2014	2015
Outbound	58	162	120	180	200
Inbound	15	30	50	70	100

Note: Actual figures for FY2011-2012. Figures for FY2013 -2015 are projections.

## Promotion of Student-Mobility Environment

### Facilitating Study Abroad for Japanese Students

Keio provides students with a range of opportunities to gather information before their study abroad, including disclosing monthly reports from students who have studied abroad in the previous academic year and before and holding a series of guidance sessions. These sessions cover such topics as the study program at the host university, preparatory language study, and the administrative procedures involved in going overseas. Students are also able to pursue independent language study using E-learning tools with the support of qualified staff, who follow students' progress and provide advice.

### Facilitating Study at Keio for International Students

Keio implemented an academic calendar around September enrollment/completion based on the world standard in addition to other preparations, which included hiring an academic advisor for international students. Keio's support system for international students ensures that even students without the Japanese proficiency to take courses in Japanese can enjoy a rewarding student life through English-language courses. In terms of living, Keio provides international student dormitories within walking distance of campus and a tutoring system to assist students in their studies.

## Visualizing of the content of Education , Dissemination of the Outcomes

### Expansion to Other Universities and Mutual Exchange

The double degree master's programs, which form the core of this project, can be easily expanded into other areas as these programs require very little adjustments to the current master's programs for Japanese students going abroad and benefit from the mutually complementary nature between the unique characteristics of the Japanese and European graduate school educations. Regarding the intake of students, it is necessary to accommodate the differences between the Japanese and the European academic calendar by introducing September enrollment and completion. However, as long as curriculum is primarily focused on research, changes are not necessary.

**【Name of project】(Adopted year: FY2011, Type B – II)**

Development of Japan-EU Collaborative Program for Nurturing Global Engineers

**【Aim of project, Ideals of Global Human Resource on the project】**

We offer various educational programs to students by participating in international collaborative ventures in higher education in the field of science and technology and aim to train talented engineers who can transcend language and culture and play an active role internationally.

**【Summary of project】**

By cooperating with higher education institutions of science and technology within the EU, we train engineers who can form solutions to problems common throughout the world with a global vision. We aim to create an environment that fosters global sensitivity through the development of double degree master's programs, international collaborative ventures through the collaborative mentorship of Ph.D. students, and introductory programs and preparatory courses for undergraduate students.

**■ Forming University Networks of Quality Assurance**

**Development of Double Degree Master's Programs**

Keio has exceeded its target in expanding the number of exchange students with partner universities; through mutual exchange of faculty members with universities within the T.I.M.E. (Top Industrial Managers for Europe) consortium; and extensive dialogue concerning applicant interviews, development of the curriculum, and strengthening the framework for international student admissions. In October 2013 at the annual T.I.M.E. Association General Assembly, Keio was elected to become a member of the association's Advisory Committee.

〈 Class in Progress 〉



**Development of International Collaborative Projects Through Ph.D. Student and Scholarly Exchange**

Keio conducts student and faculty member exchanges with world renowned universities. The experience gained from the exchange of teaching and supervising Ph.D. students has triggered active discussions on the development and progression of double degree Ph.D. programs at Keio, and prepared the groundwork for future collaborative research mentorship.

**■ Contents of the Programs, Preparation for the Start of the Programs**

〈 Class in Progress 〉



**Offering Introductory Programs and Preparatory Courses for Undergraduate Students**

In preparation for double degree Master's programs, Keio sent 146 undergraduate students abroad to attend short-term training programs. Keio also offered study abroad opportunities to 1st and 2nd year undergraduate students as part of the Global Leadership Seminar to give students a global perspective from an early stage.

**Summer Program to Introduce Study Abroad in Japan to Partner University Students**

Keio held a Japanese language summer school for double degree exchange students entering Keio University. The program not only offered Japanese language classes, but also calligraphy and other extracurricular activities as well as homestays as part of an introduction to Japanese culture.

**■ Student-Mobility**

**Outbound Students from Keio**

Keio sent students abroad for its double degree master's programs, as part of the collaborative mentorship of Ph.D. students, and spring and summer overseas training for undergraduate students as a part of the "Undergraduate Education System Towards Training Global Human Resources," in addition to internships and summer schools.

**Inbound International Students from Partner Universities**

Keio conducted double degree programs, summer schools, Ph.D. candidate intake, and other research and training programs.

	2011	2012	2013	2014	2015
Outbound	58	162	175	180	200
Inbound	15	30	65	70	100

Note : FY2011-2013 results, FY2014 -2015 planned

**■ Promotion of Student-Mobility Environment**

**Facilitating Study Abroad for Japanese Students**

Keio provides students with a range of opportunities to gather information before their study abroad, including disclosing monthly reports from students who have studied abroad in the previous academic year, and holding a series of guidance sessions. These sessions cover topics such as study programs offered at the host university, preparatory language study, and administrative procedures involved in going overseas. Students are also able to pursue independent language study using E-learning tools with the support of qualified staff, who follow the students' progress and provide advice.

**Facilitating Study at Keio for International Students**

Keio implemented the world standard academic calendar which starts in September. In addition, it hired specialized academic advisors so that international students without Japanese proficiency can enjoy a rewarding student life through English-language courses. In terms of living, Keio provides international student dormitories within walking distance of the campus and a tutoring system to assist students in their studies.

**■ Visualizing of the Content of Education, Dissemination of the Outcomes**

**Strengthening Ties with Other Universities and Mutual Exchange**

In March 2014, the first Keio University & Ecoles Centrales – Supelec Double Degree Program Networking with Corporations Kick-Off Meeting was held with the objective to offer career support for double degree students to take on active roles in global society. Faculty members from T.I.M.E. partner universities, the French Embassy, Keio faculty and staff members, and current and former double degree students were present in this networking event.

## 【Name of project】(Adopted year: FY2011, Type B—II)

Development of Japan-EU Collaborative Program for Nurturing Global Engineers

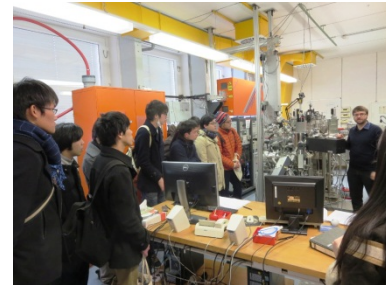
## 【Aim of project, Ideals of Global Human Resource on the project】

We offer various educational programs to students by participating in international collaborative ventures in higher education in the field of science and technology and aim to train talented engineers who can transcend language and culture and play an active role internationally.

## 【Summary of project】

By cooperating with higher education institutions of science and technology within the EU, we train engineers who can form solutions to problems common throughout the world with a global vision. We aim to create an environment that fosters global sensitivity through the development of double degree master's programs, international collaborative ventures through the collaborative mentorship of Ph.D. students, and introductory programs and preparatory courses for undergraduate students.

< Class in Progress >



## ■ Forming the University Network with Quality Assurance

### ○ Development of a Double Degree Master's Program

Keio has exceeded its target in expanding the number of exchange students with partner universities; through mutual exchange of faculty members with universities within the T.I.M.E. (Top Industrial Managers for Europe) consortium; and extensive dialogue concerning applicant interviews, development of the curriculum, and strengthening the framework for international student admissions.

### ○ Development of International Collaborative Ventures Through Joint Guidance of Ph.D. Students

Keio conducts student and faculty member exchanges with world renowned universities. The experience gained from the exchange of teaching and supervising Ph.D. students has triggered active discussions on the development and progression of double degree Ph.D. programs at Keio, and prepared the groundwork for future collaborative research mentorship.

## ■ Contents of the Programs, Preparation for the Start of the Programs

< Class in Progress >



### ○ Offering Introductory Programs and Preparatory Courses for Undergraduate Students

In preparation for double degree Master's programs, Keio sent 176 undergraduate students abroad to attend short-term training programs. Keio also offered study abroad opportunities to 1st and 2nd year undergraduate students as part of the Global Leadership Seminar to give students a global perspective from an early stage.

### ○ Summer Program to Introduce Study Abroad in Japan to Partner University Students

Keio held a Japanese language summer school for double degree exchange students entering Keio University. The program not only offered Japanese language classes, but also extracurricular activities as well as homestays as part of an introduction to Japanese culture.

## ■ Student-Mobility

### ○ Outbound

Keio sent students abroad for its double degree master's programs, as part of the collaborative mentorship of Ph.D. students, and spring and summer overseas training for undergraduate students as a part of the "Undergraduate Education System Towards Training Global Human Resources," in addition to internships and summer schools.

### ○ Inbound

Keio conducted double degree programs, summer schools, Ph.D. candidate intake, and other research and training programs.

	2011	2012	2013	2014	2015
Outbound	58	162	174	199	200
Inbound	15	30	65	53	100

## ■ Promotion of Student-Mobility Environment

### ○ Facilitating Study Abroad for Japanese Students

Keio provides students with a range of opportunities to gather information before their study abroad, including disclosing monthly reports from students who have studied abroad in the previous academic year, and holding a series of guidance sessions. These sessions cover topics such as study programs offered at the host university, preparatory language study, and administrative procedures involved in going overseas. Students are also able to pursue independent language study using E-learning tools with the support of qualified staff, who follow the students' progress and provide advice.

### ○ Facilitating Study at Keio for International Students

Keio implemented the world standard academic calendar which starts in September. In addition, it hired specialized academic advisors so that international students without Japanese proficiency can enjoy a rewarding student life through English-language courses. In terms of living, Keio provides international student dormitories within walking distance of the campus and a tutoring system to assist students in their studies.

Note : FY2011-2014 results, FY2015 planned

## ■ Internationalization of the University

### Information Disclosure and Publication of Outcomes

### ○ Strengthening Ties with Other Universities and Mutual Exchange

As a member of the T.I.M.E. Advisory Committee, Keio and Tohoku University will cooperate in organizing the annual T.I.M.E. General Assembly 2015. The International Symposium on Double Degree Strategy is to be held at Keio for the occasion, where other Japanese universities, former double degree students, and the business community will be among those who come together, offering participants a global platform for building and broadening professional networks.

# The Re-Inventing Japan Project (Keio University 2015 Academic Year)

**【Project name】**(Year adopted: 2011 academic year, Type B-II)

Development of a Japan–Europe Collaborative Program for Nurturing Global Engineers

**【Objectives】**Our participation in various international collaborative science and technology projects has allowed us to offer a variety of educational programs to our students. We hope these programs will develop students into talented engineers that can transcend cultural and linguistic barriers to achieve success on a global scale.

**【Project summary】** By cooperating with higher education institutions of science and technology within the EU, we train engineers who can form solutions to problems common throughout the world with a global vision. We aim to create an environment that fosters global sensitivity through the development of double degree master’s programs, international collaborative ventures through the collaborative mentorship of Ph.D. students, and introductory programs and preparatory courses for undergraduate students.

## ■ Formation of a Top-class University Network

### ○ Development of a Double Degree Master’s Program

Keio has exceeded its targets for increasing the number of exchange students that come to the school from partner universities. This was achieved through faculty exchanges with universities that belong to the T.I.M.E. (Top Industrial Managers for Europe) Association, extensive discussions concerning applicant interviews and improvements made to our curriculum.

### ○ Developing International Programs Through the Collaborative International Mentorship of Ph.D. Students

As part of the Erasmus Mundus program—which aims to strengthen partnerships between European and non-European institutions of higher education—Keio has carried out research exchanges with its European partner universities under the banners of the BEAM Program and its successor: the EASED Program. Additionally, Keio has a mutual exchange program with Ecole Centrale de Nantes (ECN) and a consortium-style program (Erasmus+) with the Technical University of Madrid. These programs mark the first step towards strengthening Keio’s Ph.D. course partnerships.

## ■ Program Content and Preparing for the Start of the Programs

(Class in progress)



### ○ Offering Introductory Programs and Preparatory Courses for Undergraduate Students

To give students a taste of what double degree master’s programs are like, Keio sent 143 undergraduate students abroad to take part in a variety of short exchange programs. Keio also offered study abroad opportunities to first and second-year undergraduate students as part of the Global Leadership Seminar to give students an international experience early on in their academic career.

### ○ Events to Explain Studying Abroad in Japan to Partner University Students

During the spring and summer breaks, Keio students had the chance to visit Aachen, Germany and talk with local students who had an interest in Japan. The aim of these events was to encourage participating German students to study abroad in Japan.

## ■ Student Mobility

### ○ Outbound

Keio sends students abroad for its double degree master’s programs and to receive Ph.D. mentorship at foreign universities. Undergraduate students also go abroad in spring and summer as a part of the Global Undergraduate Education System. Other outbound programs run by Keio include internships and summer schools.

### ○ Inbound

Inbound exchange students come to Keio as part of double degree programs, the EASED program and other exchange programs.

	2011	2012	2013	2014	2015
Outbound	58	162	174	199	219
Inbound	15	30	65	53	120

## ■ Encouraging Increased Student Mobility for Japanese and International Students

### ○ Facilitating Study Abroad for Japanese Students

Keio provides students with a range of opportunities to gather information before their study abroad by holding a series of pre-departure orientation sessions and publishing monthly reports from students who went abroad in the previous academic year. The orientation covers what programs are offered at host universities, preparatory language study and the administrative procedures involved in going overseas. Students are also able to pursue independent language study using e-learning tools with the support of qualified staff, who follow the students’ progress and provide advice.

### ○ Facilitating Study at Keio for International Students

Keio has adjusted its academic calendar to be in line with the rest of the world by starting in September. We have also authorized several academic advisors specifically for giving study-abroad advice so that even international students who cannot speak Japanese are able to enjoy a rewarding student life. Students who study at Keio are provided with international student dormitories located within walking distance of the campuses and a tutoring system to assist them with their studies.

(The symposium)

## ■ Internationalization of the University Transparency and Results

### ○ Strengthening Ties with Other Universities and Mutual Exchange

To coincide with the annual T.I.M.E. Association General Assembly in 2015, which was co-hosted with Tohoku University, Keio also held an international double degree symposium. This symposium led to Keio deciding to form new partnerships with some of the institutions that were in attendance.

