

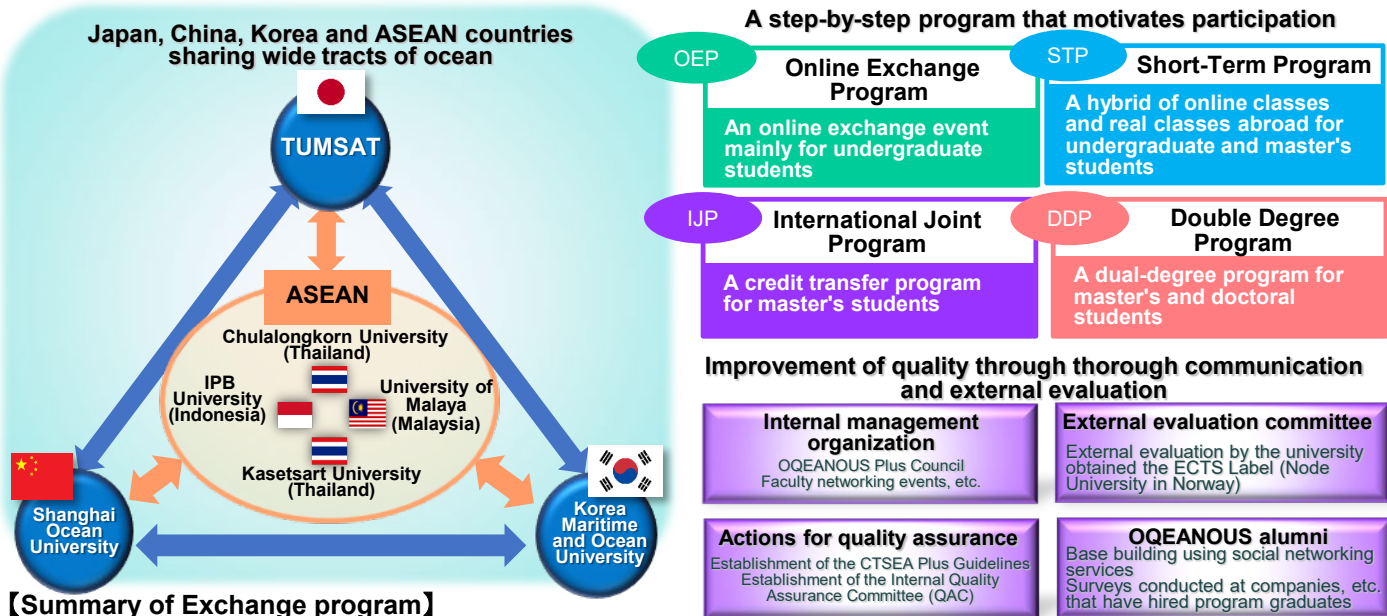
**[Name of project] (Adopted year: FY2021, (Type A①))**

**OQEANOUS Plus: Education program fostering advanced professionals who can create technology and its application in the strategic development for sustainable utilization of the ocean**

**[Summary of Inter-University Exchange Projects]**

**OQEANOUS Plus Program**

**Oversea Quality-assured Education in Asian Nations for Ocean University Students Plus**



**[Summary of Exchange program]**

It is necessary to solve the common problems through mutual understanding and close cooperation in a wider Asian economic area that includes the ASEAN countries (which share wide tracts of ocean) as well as China, Japan, and Korea to promote sustainable development and usage of the oceans based on medium- to long-term perspectives.

The program aims at continuing the results of the collaborative international education program (also known as the OQEANOUS program) in the oceans based on the Japan-China-Korea version of the ERASMUS Program, which began in response to the adoption of the CAMPUS Asia Mode 2 program in 2016, extending the consortium of three oceanic universities (Japan, China, and Korea) to ASEAN countries, which are important as marine nations, contributing to the stability and development of the marine industry in Asian countries through training high-level professionals who can strategically address the challenge of achieving SDGs by cooperating together with Japan, China, Korea, and ASEAN countries in one united body, and also enhancing further the global presence of our university and other universities participating in the consortium in the marine field of the Asian economies.

**[Global Human Resource on the project]**

Human resource development objective: "International advanced professionals who can strategically address the challenge of achieving SDGs"

Specifically, human resources who can correctly perceive shared issues in the ocean-related industries, especially in marine nations in Asian countries, develop solutions without having to focus on the field of expertise, and successfully carry out projects as a team, and thereby lead reform of the industrial structure

**[Feature on the project]**

- Establishment of Guidelines for achieving an educational exchange program with quality assurance at the graduate level  
"CTSEA Plus Guidelines (tentative name)" that is a credit transfer system based on unified standards shared by seven universities that maintain the uniqueness of graduate education in each country, incorporating the methods of the ERASMUS Program, the course catalog, etc. to visualize the contents of the education, and the form of the learning agreement to be concluded between students and the two universities prior to the dispatch of the students are established and publicly announced.
- Provision of an effective and borderless program that combines online classes and real classes abroad  
Real classes abroad, which used to be provided alone, were combined with online classes. The "easy-to-participate" program is provided to students ranging from early-year undergraduates to doctoral students, with a "highly effective structure" that enables students to progress in stages, aiming at transferring credits and obtaining dual degrees through the introduction of the program and experiences.
- The Double Degree Program expanded to the doctoral course  
In the Mode 2 program, the dual degree (double degree) program, which was established for master's students, was expanded to doctoral students, and a system for thesis defenses that makes effective use of the internet was established.

**[Exchange number]**

		2021	2022	2023	2024	2025
Out bound	Students studying abroad	1	8	10	11	11
	Students taking online international education and exchange programs in their home countries	5	0	0	0	0
	Students fulfilling both of the above requirements	0	5	5	5	5
In bound	Students studying abroad	0	8	11	11	11
	Students taking online international education and exchange programs in their home countries	0	22	22	22	22
	Students fulfilling both of the above requirements	0	10	10	10	10

## [Name of Project] (Adopted year: FY2021 Type A-1)

OQEAPOUS Plus: Education program fostering advanced professionals who can create technology and its application in the strategic development for sustainable utilization of the ocean



### Exchange Programs



OQEAPOUS Plus Joint Information Session & Online Exchange Program (OEP)

In the Spring 2022 semester, three universities in Japan, China, and Korea implemented International Joint Programs (IJP), which are one-semester mutual dispatch programs with transferable credit, and double degree programs (DDP) aimed at receiving a degree from both universities, based on the scheme established in the CAMPUS Asia Mode 2 "OQEAPOUS Program."

As a new initiative, the Online Exchange Program (OEP) was held together with the Online Joint Information Session (March 17-18) to introduce the universities, allow student interaction, and hold real-time practice lessons.

### Student-Mobility

#### Outbound

- Two students were dispatched to Korea Maritime and Ocean University (KMOU) to participate in the IJP program (February 2022 - )
- Online Joint Information Session & OEP (March 17-18, 2022)  
20 students from our university participated

#### Inbound

- Received one application from a KMOU student to join the IJP program. (Due to Japan's entry restrictions, the application was withdrawn and the student was not accepted.)
- 61 students from six other universities participated in the Online Joint Information Session & OEP (same day as above).

	2021	
	Plan	Results
Outbound	6	22
Inbound	0	61

\* For participants in the Online Program (OEP), the number of students from our university is included in "outbound" and the number of students from six other universities is included in "inbound."

### Forming the University Network with Quality Assurance

#### <Creating a place for consideration>

The "OQEAPOUS Plus Joint Meeting," which consists of faculty and coordinators from the seven participating universities, was established as a place to consider the framework and implementation of the program, and a sub-meeting consisting of only the three universities in Japan, China, and Korea was established for smooth discussion. The Joint Meeting was held four times, and the sub-meeting was held three times online.

#### <Consideration of Credit Transfer Guidelines>

In preparation for the implementation of IJP among seven universities, including four ASEAN Universities, in the Fall 2022 semester, a Joint Meeting was established to create new guidelines (tentative name: CTSEAA) based on the "CTSEA (Credit Transfer System in East Asia) Guidelines," a credit transfer system created in Mode 2 for equivalent quality assurance between the three universities in Japan, China, and Korea, with the four ASEAN universities added.



1st OQEAPOUS Plus Joint Meeting (December 2021)

### Promotion of Student-Mobility Environment

Even during the COVID-19 pandemic, we were able to dispatch students smoothly, due to the deployment of a trilingual coordinator in Japanese, Korean, and Chinese, conducting dispatching procedures with KMOU through SNS and other means, and carefully coordinating class selection, teacher matching, and entry into the country. In order to raise awareness of safety measures while studying abroad, a crisis management seminar on overseas travel was held with the cooperation of an external organization, and participation was made mandatory for dispatched students.

### Internationalization of the university, Information disclosure and Publication of outcomes

The official website was launched in March 2022, and is used to disseminate information about various events and programs both inside and outside the university. In FY 2022, we will further improve the website by publishing the new credit transfer system guidelines, which are scheduled to be completed, and various other forms.

### Good Practices

- > In preparation for the implementation of mutual dispatch for IJP between the seven participating universities in the Fall 2022 semester, we progressed the creation of credit transfer guidelines (tentative name: CTSEAA) for equivalent quality assurance between the universities in Japan, China, Korea, and the four ASEAN universities. The completed guidelines are expected to be used in future exchanges with other universities in China, Korea, and ASEAN countries.
- > By holding the Online Exchange Program (OEP) together with the Online Joint Information Session, we were able to create effective efforts to go beyond simple student interaction and increase willingness to participate in IJP and DDP with actual travel. Students were able to form a concrete image of participation through university introductions and participating in practice lessons in real time.

## 2. FY 2022 Progress

[Tokyo University of Marine Science and Technology]

### 【Name of Project】 (Adopted year: FY2021 Type A-1)

OQEANOUS Plus: Education program fostering advanced professionals who can create technology and its application in the strategic development for sustainable utilization of the ocean

### ■ Exchange Programs



〈Short Term Program (STP Summer School)〉



We implemented International Joint Programs (IJP), which are one-semester mutual dispatch programs with transferable credit, and double degree programs (DDP) aimed at receiving a degree from both universities in the Autumn 2022 semester and the Spring 2023 semester, based on the scheme established in the CAMPUS Asia Mode 2 "OQEANOUS Program."

In addition to the Online Exchange Program (OEP) held on March 17, 2023, where universities were introduced while students had the opportunity to interact with each other, a summer school was conducted as a short-term program (STP) that included both online lectures and in-person visits as a new initiative to the program.

### Student-Mobility

#### ○ Outbound

- STP: 4 students were dispatched to Chulalongkorn University and Kasetsart University (KU) (September 2022)
- DDP: 1 student was dispatched to Shanghai Ocean University (SHOU) (November 2022 - )
- IJP: 2 students were dispatched to KU (November 2022 - )
  - 1 student was dispatched to Korea Maritime & Ocean University (KMOU) and IPB University (IPB) (February 2023 - )
- OEP: 6 students participated (March 17 2023)

#### ○ Inbound

- STP: Accepted a total of 7 students from IPB, KMOU and KU (October 2022)
- DDP: Accepted 1 student from SHOU (October 2022 - )
- IJP: Accepted 3 students from KMOU (October 2022 - )
- STP: 28 students attended online lectures (July 25–29 2022)
- OEP: 31 students participated (March 17 2023)

	2022	
	Plan	Results
Outbound	13	9
Inbound	40	63

\* "Outbound" does not include the number of students (6) from our university.

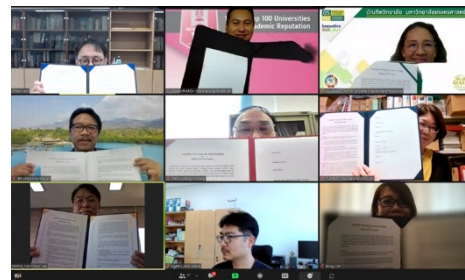
### ■ Forming the University Network with Quality Assurance

#### 【OQEANOUS Plus Joint Meeting】

Established as a place to consider the framework and implementation of the program, the "OQEANOUS Plus Joint Meeting," which consists of faculty and coordinators from the seven participating universities and the government-backed sub-meeting consisting of only the three universities in Japan, China, and Korea, were regularly held (10 times in total for both).

#### 【Conclusion of Credit Transfer Agreement Among Seven Universities and Establishment of Credit Transfer Guidelines】

After discussions at the meetings, the "Agreement on Student and Credit Exchange for CAMPUS Asia Plus Program" was concluded between all participating universities. While respecting the differences in educational systems and academic calendars of all participating universities, the Credit Transfer System in East Asia and ASEAN (CTSEAA) was established as a framework for promoting credit transfer with quality assurance for the implementation of credit transfer programs.



〈Signing Ceremony of the Agreement on Student and Credit Exchange for CAMPUS Asia Plus Program〉

### ■ Promotion of Student-Mobility Environment

Even during the COVID-19 pandemic, we were able to dispatch and accept students smoothly by deploying a coordinator in Japanese, Korean, and Chinese, handling procedures for dispatching and accepting students, selecting course subjects, matching faculty members, and providing support for students when they came to Japan through SNS and other means through careful coordination with partner universities. The students that were accepted were also assigned tutors to support their daily lives during their enrollment period, which was also helpful. In order to raise awareness of safety measures while studying abroad, a crisis management seminar on overseas travel was held with the cooperation of an external organization, and participation was made mandatory for dispatched students.

### ■ Internationalization of the University, Information disclosure and Publication of Outcomes

Students who returned to Japan are invited to give presentations of their own experiences at information sessions, provide advice to participating students, and invite other students to work together to help newly accepted international students. Letting returning students help in different areas helps with recruiting new students who will participate and shows how exchanges among students are growing. We have launched an official website for this program, and actively post information about CTSEAA, various media, as well as the experiences of students studying abroad.

### ■ Good Practices

The "Credit Transfer System in East Asia and ASEAN (CTSEAA)" and the "Agreement on Student and Credit Exchange for CAMPUS Asia Plus Program," which are frameworks for promoting credit transfer with quality assurance, have established a foundation for promoting STP, IJP, and DDP.

Some students have been dispatched by the IJP from the Spring semester of 2023, and others been accepted into the program by participating in the 2022 STP. This is how we have been able to encourage more students to enroll in long-term study abroad programs that last for more than one semester starting with introduction programs for both dispatched and accepted students.

# 3. FY2023 Progress 【Tokyo University of Marine Science and Technology (TUMSAT)】

**【OQEANOUS Plus: Education program fostering advanced professionals who can create technology and its application in the strategic development for sustainable utilization of the ocean】 (Adopted year: FY2021)**



## Exchange Programs



<Short Term Program 2023>

While continuing the mutual exchange of students through the International Joint Program (IJP, credit transfer program) and the Double Degree Program (DDP), we are also conducting the Short Term Program (STP), which combines online lectures and field trips, and the Online Exchange Program (OEP) as an initiation for study abroad. Notably, TUMSAT hosted the first STP in FY2023, inviting students from all consortium universities to one place after the COVID-19 pandemic.

Furthermore, the OQEANOUS Plus Program received an S rating (the highest rank) in its interim evaluation. The establishment of the “Credit Transfer System in East Asia and ASEAN (CTSEAA),” which involves seven universities with different educational systems and academic calendars agreeing upon a credit transfer system, was highly praised.

## Student-Mobility

(Number of students who participated in each program)

### Outbound

- DDP: One (1) to Korea Maritime and Ocean University (KMOU) (from Mar 2024)
- IJP: One (1) to Universiti Malaya (UM) (from Feb 2024)  
One (1) student to KMOU (from Mar 2024)
- STP: Five (5) to KMOU (from Jul 29 to Aug 1, 2023)
- OEP: Five (5) (Mar 22, 2024)

### Inbound

- DDP: One (1) from KMOU (from Apr 2023),  
One (1) each from Shanghai Ocean University (SHOU) & Kasetsart University (KU) (from Oct 2023)
- IJP: Two (2) each from KMOU & KU (Apr 2023), two (2) each from SHOU & KU (from Oct 2023)
- STP: Seventeen (17) in total from SHOU, KMOU, KU, and IPB University (IPB) (from Aug 2 to 6, 2023)  
Seventy-two (72) in total at the online lectures (from July 24 to 28, 2023)
- OEP: Fifty-three (53) in total (Mar 22, 2024)

	2023	
	Plan	Results
Outbound	15	8
Inbound	43	136

\* "Outbound" does not include the number of participants of OEP (5) from our university.

## Forming the University Network with Quality Assurance

### OQEANOUS Plus Meeting

We regularly hold the “OQEANOUS Plus Meeting” (six times in FY2023), which is consisted of faculty, staff, and coordinators from the seven participating universities to discuss the progress, issues, and objects of the program. In one of the meetings held in FY2023, participants of from the seven universities met in person for the first time after the program started.

### Conclusion of Double Degree Agreement with Kasetsart University (KU)

TUMSAT and KU concluded the Double Degree Agreement on May 24, 2023. The agreement enables us the mutual exchange of DDP students, and TUMSAT promptly welcomed one DDP student from KU in October 2023.



<Signing Ceremony of DDP agreement with Kasetsart University>

## Promotion of Student-Mobility Environment

We continuously appoint one coordinator who speaks Japanese, Chinese and Korean, and one coordinator who speaks English fluently. These coordinators support students with documentation, class selection, matching with supervisors and visa applications carefully coordinating with consortium universities using social media. Inbound students can also receive support from student tutors who help them with campus life at TUMSAT, ensuring they can spend their time in Japan smoothly. In addition, outbound students are required to attend a crisis management seminar to raise awareness of security during study abroad by an invited instructor from a professional agency.

## Internationalization of the university, Information disclosure and Publication of outcome

Involving program alumni in various ways, such as asking them to present their experiences in information sessions, to advise privately to candidate students, and to support inbound students with their classmates, has contributed to the recruitment of program participants, and the expansion of interaction among students. In addition, we have newly produced brochures for the program and started an Instagram account to reinforce our PR activities. We are also collaborating with TUMSAT's official social media account to promote the program both on and off campus.

## Good Practices

- The number of students who participated in initiation programs (OEP, STP) and then advanced to mid- and long-term credit transfer or double degree programs (IJP, DDP) is increasing. This trend suggests that the planned and gradual organization of the program and PR activities are steadily taking effect.
- We are utilizing online tools not only in the program but also for interview sessions and academic advising sessions between faculty and students. This approach allow us to communicate, educate and conduct research effectively without needing to go abroad. It has become inevitable for OQEANOUS Plus program.
- To increase the commitment of ASEAN members including faculty, students and university as a whole, TUMSAT visited Universiti Malaya (UM) and IPB University (IPB) to promote the program and hold faculty exchange sessions in February 2024. Thanks to this activity, TUMSAT will accept two IJP students from October 2024.

# 4. FY2024 Progress

**[OQEANOUS Plus: Education program fostering advanced professionals who can create technology and its application in the strategic development for sustainable utilization of the ocean] (Adopted year: FY2021)**



## (1) Exchange Programs



Short Term Program 2024

While continuing the mutual exchange of students through the International Joint Program (IJP, credit transfer program) and the Double Degree Program (DDP), we are also conducting the Short Term Program (STP), which combines online lectures and field trips, and the Online Exchange Program (OEP) as an initiation for study abroad. Notably, TUMSAT with Shanghai Ocean University (SHOU) hosted the STP and inviting students from all consortium universities to Shanghai for a field trip.

Furthermore, we improved the OEP so that students could actively involve in the program by limiting the number of participants and increasing the time of group discussion. Consequently, the number of participants decreased compared to the previous year, but was able to provide opportunity for active exchange to students.

## Student-Mobility

### ○ Outbound

- IJP: One (1) student to Korea Maritime and Ocean University (KMOU) (from Sep 2024), Two (2) to Kasetsart University (KU)(from Jan 2025), Two (2) to SHOU (from Feb 2025), One (1) to Universiti Malaya (UM) (from Mar 2025)
- DDP: None
- STP: Eight (8) to KMOU (from Aug 10 to 18, 2024)
- OEP: Five (5) (Mar 21, 2025)

### ○ Inbound

- DDP: One (1) from KU (from Oct 2024)
- IJP: Two (2) each from KMOU & KU (Apr 2024), two (2) each from KMOU & SHOU & KU (from Oct 2024)
- STP: Twenty-three (23) in total from SHOU, KMOU, KU, and Chulalongkorn University (CU) (from Aug 10 to 18, 2024), Seventy-two (72) in total at the online lectures (from July 24 to 28, 2023)
- OEP: Twenty-one (21) in total (Mar 21, 2025)

	2024	
	Plan	Results
Outbound	16	19
Inbound	43	55

## (2) Forming the University Network with Quality Assurance

### OQEANOUS Plus Meeting

We regularly hold the “OQEANOUS Plus Meeting” (nine times in FY2024), which is consisted of faculty, staff, and coordinators from the seven participating universities to discuss the progress, issues, and objects of the program. For FY2024, we held one hybrid meeting in China, and One in-person meeting in Japan, in order to discuss frankly on the new issues and how the program should advance in the timing when the program getting on the right track. We are using the advantage of both online and in-person to maintain close partnership.

### Promotion in Thailand

Some faculty and staff of TUMSAT visited Kasetsart University where TUMSAT concluded the Double Degree agreement in May 2023 and confirmed the detailed procedures and schedule of each university’s thesis review procedures to realize smooth awarding of degree to the first DDP student between two universities. TUMSAT also hold the information Session for students of Kasetsart University.



In-person OQEANOUS Plus Meeting in November



Information Session in Thailand

## (3) Internationalization of the university, Publication of outcome

Involving program alumni in various ways, such as asking them to present their experiences in information sessions, to advise privately to candidate students, and to support inbound students with their classmates, has contributed to the recruitment of program participants, and the expansion of interaction among students. In addition, we utilize rich PR media including brochures and an Instagram account, and by publicizing with other study abroad program in TUMSAT. The students starts to go abroad several times utilizing internal resources, for example, joining IJP or DDP after joining other shot-term dispatch program.

Moreover, making use of this program, TUMSAT developed new program named “Japan-Nordic Collaborative Program of Marine Education toward the Innovation and Sustainability (METIS)” and be adopted for Inter-University Exchange Project in AY2024. This program aims to exchange students using credit-exchange scheme with partner universities in Denmark and Norway. We intend to utilize outcome of OQEANOUS Plus program to the exchanges with European region.

## (4) Good Practices

### Early participation

The target of this program, which is students in Master's course, have many barrier to study abroad, that are the short period of the course (2 years), the lab-activity which detain students from going abroad. Therefore, TUMSAT encourage students to participates IJP or DDP from the winter period of 4th year during undergraduate course for students advancing to Master's course internally. In fact, most of the participating students (11 out of 16 students dispatched before the end of AY2024) joined the program during this period and move on to activities like research or job hunting without any negative influence.

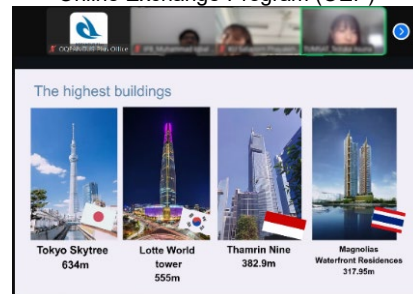
### Revision of Online Exchange Program (OEP)

From the start of the program (AY2021), OEP was held hosted by JCK countries in rotation, and trying to improve the contents every time. For the first few years, under the COVID-19 crisis, the purpose of OEP has been mainly promotion of the program and tried to increase the number of participants and doing program introduction and online lectures, which are relatively a passive program. Now that the program is implemented smoothly, there are some opinion in the consortium that we should compose program that can stimulate active participation. From AY2024, we limited the participants and improving the program by doing group activity by using functions of online meeting tools. Moreover, we set theme of the group discussion into the difference of culture or appeal points of each countries, so that the students could learn about the situation at the destination from fellow students.

### Whole consortium Faculty Exchange

In November 2024, TUMSAT hold a faculty exchange in Tokyo, inviting some faculty from each consortium university for matching faculty in order to promote DDP. The Exchange was hold as a poster session and 17 faculty from 7 universities joined the occasion, and this leads to a promotion of exchange not only between TUMSAT and other universities, but also among whole consortium. There were some participants from TUMSAT faculty and students, and students who are interested in joining the program were able to have opportunity to learn what kind of research their possible destination is doing and socialized with the presenters.

Group Presentation at 2025 Online Exchange Program (OEP)



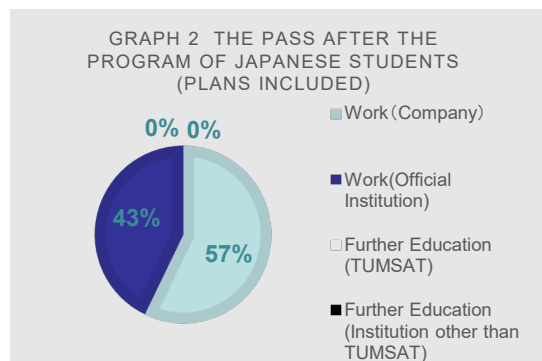
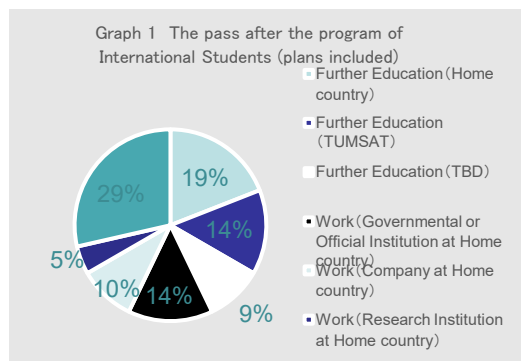
Picture from Whole Consortium Faculty Exchange



## (5) Major Achievements and Outcomes

TUMSAT operated a survey to students who joined the program both dispatched from and received at our university until now, and majority of the students already got a job. In those students, there are 14% international students and 43% of Japanese students working at public institution of their home country, who would be a potential bridge between Japan and each country.

Moreover, both dispatched students and international students answer that they were able to acquire skill to effectively communicate and bring out outcomes in a different culture, and many students answered that they think that they acquired the skills that enable them to adapt global research environment or global workplace and stimulate their interests to work globally.



(Ref. 1) Except from free comments from students

- This experience made me more open-minded and flexible, which I believe is very important when working in fast-changing industries or multinational teams. (Student came from China/IJP)
- I gained invaluable experiences that cannot be measured in monetary terms, (中略) exposure to an international research environment. (Student came from Korea/DDP)
- I feel reluctant to communicate using even English before studying abroad. However, I was forced to speak English during studying abroad and even faced the situation that only Bahasa Indonesia can be used. With these experience, I acquired a mind to try to interact with people whatever the language is. (Student dispatched to Indonesia/IJP)
- Learning or doing lab activities in foreign language, and living in an environment that you cannot communicate with Japanese will be a wonderful experience to foster human resources who play an active roll globally. (Student dispatched to China/DDP)