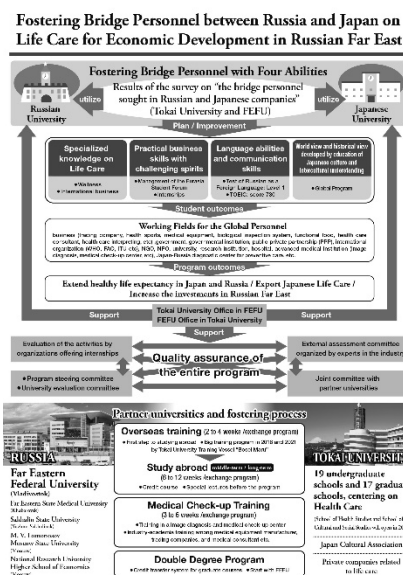


### 【Name of project】(Adopted year: FY2017, (Type A))

Fostering Bridge Personnel between Russia and Japan on Life Care for Economic Development in Russian Far East

### 【Summary of Project】

To foster human resources who would contribute to “Extending the length of healthy living” and “Developing a healthy-longevity society maintaining high Quality of Life (QOL)” which are two of the objectives in the economic cooperation plan between Japan and Russia to further develop the relation and economic between Russia and Japan



### 【Summary of Exchange program】

The aim of the program is to provide students who are specializing or interested in life-care with specialized skills and knowledge to develop human recourse who would become an immediate workforce not only in Japanese or Russian companies but also in global companies.

#### Program details

- Short exchange program (2-4 weeks) as a preparation to arouse Japanese and Russian students' interest
- Mid-term exchange program (6 or 12 months/credit-approved) with semester courses learning specialized knowledge
- Practical training exchange program (3-6 weeks) on medical image diagnostics and ultrasonic diagnostic instruments whose needs are rising in Russia, and a clinical resident training program to learn medical checkups (will be dispatched as Tokai University's medical students)
- Double degree program (master's course/starting from 2020)

### 【Global Human Resource on the project】

The students will acquire the following four abilities: 1) Wide knowledge on life-care; 2) Practical skills which can be applied appropriately and challengingly; 3) High skill in language and communication; 4) Global and historical perspective based on Japanese culture and intercultural understanding. Human resources that are nurtured in this program will lead the exportation of Japanese life-care techniques to Russia as well as establishing and spreading in Russia as a radiologist, medical imaging technologist and such. They will establish a healthy society with knowledge on Japanese and Russian social system among Japanese companies in Russia, government, medical institutions, NGO, NPO, and health industry (e.g. trading companies, health sports, medical equipment, biological inspections, functional food, medical/hospital consultants, and medical interpreters).

### 【Feature on the project】

Tokai University will launch a “Far-Eastern Office” in Far Eastern Federal University (Vladivostok) who is the main partner university in this program. A coordinator with high skills in Russian and Japanese language will be allocated in this office and will take care of the sending/receiving students, conduct preparation programs for exchange programs, and be responsible for smooth and effective coordination among Tokai University, Far Eastern Federal University and other universities. Also, in the above mentioned Short exchange program, we will conduct a Vladivostok visit by “Bosei-maru” (a university-owned oceanographic training vessel) as one of the expansion of people interaction. 100 students from Japan and Russia will have cultural exchange, sports events, and student forums on the vessel. In 2021, the vessel will visit Sakhalin as well.

### 【Exchange number】

	2017	2018	2019	2020	2021
Outbound	15	70	30	30	75
Inbound	15	60	30	30	65

# 1. FY2017 Progress Report

【Tokai University】

**【Name of project】(Adopted year: FY2017, (Type A, Country Russia))  
Fostering Bridge Personnel between Russia and Japan on Life Care for Economic Development of Russian Far East**

## ■ Exchange Programs



<Medical Check-up Training>

### Student-Mobility

#### ○ Outbound

15 students participated in 2 programs: 13 students on a training program at Far Eastern Federal University and 2 on the Medical Check-Up Training at the Medical Center of Far Eastern Federal University.

#### ○ Inbound

15 students participated in 2 programs: 13 students on a training program at Tokai University and 2 Medical Check-Up Training at Tokai University School of Medicine and Tokai University Hospital.

In FY2017 Tokai University conducted four short-term programs to prepare and strengthen fundamental cooperation with its partner universities for middle and long-term study abroad programs planned for 2018 and later. Through these programs, students not only discussed social programs rooted in life-care situations in Russia and Japan but also learned about advanced technology in the field of medical and health care. In order to offer students opportunities to further their professional knowledge and ideas in this project, a launch symposium was held in Tokyo while an internship program was conducted at the Vladivostok Hokuto Diagnostic Imaging Center.

	2017	
	Plan	Results
Outbound	15	15
Inbound	15	15

## ■ Forming the University Network with Quality Assurance

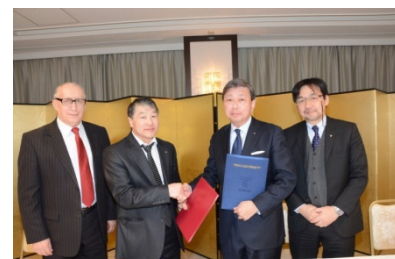
Tokai University's International Education Center and Head Office of International Affairs work closely together so that the University can guarantee the quality of student support. At the end of every year, both internal and external independent evaluation committees review Tokai's programs and their performance. All the partner universities serve in the Cooperation to discuss and establish a common evaluation system for the double-degree program planned between Tokai University and its partner universities.



<Certificate Award Ceremony at Far Eastern Federal University>

## ■ Promotion of Student-Mobility Environment

For international students studying at Tokai, the International Education Center offers an excellent support with experienced specialists. The support ranges from pre-program assistance to post-program care. The center has a variety of established student support systems which ensure the safety of students with crisis management while they focus on learning in their visiting countries. Full-time faculty and staff who are assigned to this project can maximize their performance of study abroad and internship programs.



<Academic Cooperation Agreement with Sakhalin State University>

## ■ Internationalization of the University, Information Disclosure and Publication of Outcome

The International Education Center and Head Office of International Affairs take a leading position on campus in their efforts to improve their employees' job efficiency and performance as well as their quality of life. The website of this project is updated in three different languages: Japanese, English and Russian. These two offices are working to build up a foundation to share updated information on the project with the partner universities and the world. Social networking sites are also used to better communicate students' voices.



<Launch Symposium>

## ■ Good Practices

A launch symposium was held in February 2018. A number of specialists in the field of the life-care industry shared their research, knowledge, and ideas to start up the project.

An educational cruise program to Vladivostok is scheduled for 2018. Tokai University has established even stronger partnerships with other Japanese universities and local municipalities to make the program successful.

# 2. FY2018 Progress

## 【Name of Project】(Adopted year: FY2017, (Type A, Country Russia))

Fostering Bridge Personnel between Russia and Japan on Life Care for Economic Development in Russian Far East

### Exchange Programs



<Overseas training / Vladivostok Educational Cruise>

In FY2018, Tokai University successfully conducted three short-term programs and two middle and long-term study abroad programs according to the plans. As a part of the “Overseas training,” with 103 students from Japan and Russia participated in the “Vladivostok Educational Cruise” program on “Bosei Maru,” research training vessel owned by Tokai University. The Japan-Russia Student Forum was held on Bosei Maru in which opinions were exchanged on healthcare issues of both countries. Japanese and Russian media mentioned “Vladivostok Educational Cruise” as a great contribution of student exchanges between Japan and Russia. In order to gain practical skills, students not only participated in lectures and practical training, but also learned about competitiveness in a global society through the internship programs in medical institutions, research centers, and private companies.

### Student Mobility

#### Outbound

74 students participated in 3 programs: 64 students on the “Vladivostok Educational Cruise” 5 students on middle and long-term study abroad program and 5 on the Medical Check-up Training. Among the 64 students on the cruise, 39 were from Tokai University, 12 from Hokkaido University, 4 from Niigata University, and 7 from Kindai University. Cooperation with other Japanese universities brought a tremendous educational effects.

#### Inbound

49 students participated in 3 programs: 39 on the “Vladivostok Educational Cruise,” 5 students on middle and long-term study abroad programs, and 5 on Medical Check-up Training at Tokai University Hospital.

	2018	
	Plan	Results
Outbound	70	74
Inbound	60	49



< Overseas training / Vladivostok Educational Cruise>

### Broadening the University Network with Quality Assurance

Tokai University International Education Center (IEC) established the course program for students’ systematic learning while studying abroad. The International Education Committee conducted a close supervision to implementation of the program. In addition, the screening of candidates was executed through a fair and open process approved by the University. International Education Committee and the Faculty Meeting assured the quality of participating students. All students of middle and long-term study abroad programs are required to register for “Global Program Subjects.”- Japanese students start these subjects before and after the programs in Russia. Russian students take the required amount of credits from these subjects during the program. The standards of the course grading system and the award of credits were verified and approved by the Joint Program Committee with partner universities.



< Medical check-up training >

### Promotion of Student-Mobility Environment

IEC offers excellent support based on professional skills and experience. Additionally, IEC and the Head Office of International Affairs (HIAT) conduct operations in 11 languages to foster the globalization of the entire university organization.

In order to guarantee the sustainable management of the program, recruitment of professors and staff is conducted based on the language skills such as English and Russian. In addition, a multilayer support system is established to take care of student health by means of cooperation with the Health Care Promotion Office and the University Hospital. A seminar about management of critical situations at foreign countries was given by a government official from the Ministry of Foreign Affairs. Furthermore, safety management supports were provided by private companies.



< Joint Program Committee >

### Internationalization of the University, Information Disclosure and Publication of Outcomes

Tokai University has been developing a global education environment by increasing the number of foreign language speaking staff, and actively employing professors with degrees from overseas educational institutions. Tokai University has been increasing the number of courses offered in English. IEC actively develops public relations using existing media such as the University’s official website and university newspaper. Additionally, Tokai University created a special website for this project in Japanese, English, and Russian. Occasionally, IEC organizes symposia and workshops to share the results of our project as-a social contribution

### Good Practices

In October 2018, the Japan Office of the Far Eastern Federal University was established at Takanawa Campus of Tokai University, and Tokai University launched its Russia Office (in Vladivostok) at the Far Eastern Federal University Russsky Campus.

Since 2017, the “Global Program Subjects” have been introduced at Tokai University. After the start-up symposium 2017 in Japan, a workshop was held in Russia in March 2019 where lectures were given by experts from Japan and Russia in order to increase interests and to broaden knowledge in the field of life care.

# 3. FY2019 Progress

【Tokai University】

## 【Fostering Bridge Personnel between Russia and Japan on Life Care for Economic Development in Russian Far East】(Adopted year: FY2017, (Type A, Country Russia))

### ■ Exchange Programs



〈Internship at Tokai University Hospital〉

In FY 2019, Tokai University successfully conducted an outbound program and 3 inbound programs. At the same time, Middle and Long-Term Study Abroad programs which includes Global Program subjects has been introduced throughout the entire year. As part of the program, Tokai university organized a mid-term symposium. The mid-term symposium was held in February 2020. More than 100 participants gathered at the forum to discuss topics related to life-care fields.

#### Student-Mobility

##### ○ Outbound

10 students participated in middle and Long-Term Study Abroad programs. Overseas training and Medical Check-Up training programs have been postponed until FY2020.

##### ○ Inbound

30 students participated in 3 programs,; 15 students in Overseas training, 10 in Middle and Long-term exchange program, 5 in Medical Check-Up training.

	2019	
	Plan	Results
Outbound	30	10
Inbound	30	30

### ■ Forming the University Network with Quality Assurance

Based on the discussions with the members of the Joint Program Committee, organized by 5 partner universities, standards of student screening procedure have been introduced. Students are selected by a 2-step screening process 1)by examining their educational record and essay, 2)by individual interview. This system guarantees the objectivity and transparency of the screening process. Students who successfully complete programs of Medical Check-Up training and Middle and Long-Term Study Abroad programs receive equivalent credits from home universities. After the completion of each program, students are encouraged to participate in follow-up meetings. Student feedback is used to improve our programs.



〈Follow-Up Meeting〉

### ■ Promotion of Student-Mobility Environment

Based on the plan of the project, International Education Center (IEC) is an integral part of an one-stop service for international students and Tokai's students who are studying abroad. For outbound programs, the IEC controls the entire process of the screening and safety support during the study abroad. In addition the IEC provides pre and post seminars.

For inbound programs, the IEC is responsible for all educational programs and internship programs. The safety of the students is the most important matter for us, therefore we ensure 24/7 support system to maintain security of students. The above-mentioned preparations and organizational initiatives serve as the basis of a successful student-mobility environment.



〈Joint Program Committee〉

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

The IEC and the Program Committee are taking a leading role in the internationalization of university. We encourage multi-language administration. In Addition, we plan to offer subjects conducted English language. This year we have organized several international workshops with Russian partners. The web-site of this project has been published in 3 different languages to disclose information. Outcomes of projects are shared by these media and events such as symposiums and workshops.



〈The Certificate Ceremony〉

### ■ Good Practices

The Mid-term symposium was held in February 2020. A number of specialists from Isehara municipality, ministry and several corporations in the field of life-care shared ideas, practical experiences, and analytical data to expand and develop the project. At the same time, 2 International workshops were organized by Tokai and Russian universities as an expansion of this project.



〈Mid-Term Symposium〉

# 4. FY2020 Progress

【Fostering Bridge Personnel between Russia and Japan on Life Care for Economic Development in Russian Far East】(Adopted year: FY2017, (Type A, Country Russia )

## Exchange Programs



〈Certificate ceremony〉

In FY 2020, Tokai University improved its capacity and program quality based on the result of the mid-term evaluation. Tokai University conducted 3 programs as short-term exchange program, medical check-up training, and middle and long-term study abroad program. Because of the COVID-19 pandemic, all programs were influenced significantly; however, Tokai University successfully introduced the online program with the support of partner universities.

## Student-Mobility

### Outbound

All programs were conducted in an online format. 20 students participated in the overseas training program, the middle-long term Study Abroad program, and the medical check-up training programs.

### Inbound

28 students participated in 3 programs. The overseas training program and the medical check-up training programs were conducted in an online format, and the middle-long term study abroad program was conducted in a hybrid format, both online and in-person

	2020	
	Plan	Results
Outbound	30	20
Inbound	30	28

## Forming the University Network with Quality Assurance

For the preparation of the online program, we established a working group with our partner university in Russia. Based on the discussion of this group, we prepared 3 focused points: 1) evaluation criteria, 2) participation standard, 3) format of courses (live or on-demand base). For the middle-long term program, Tokai university introduced a new system of course-taking and credit transferring with partner universities. In this new system, students have the flexibility to participate in a variety of courses in Tokai University and partner universities.



〈Online exchange program〉

## Promotion of Student-Mobility Environment

In the online program, Tokai university provided pre-program seminars that assured that the students were prepared for the course. During the program, we encouraged students to turn on their video cameras to ensure better communication between professor and students.

For the middle-long term program, together with the partner university, we organized PCR test support and a self-quarantine environment for ensuring students' safety.



〈Student's presentation online〉

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

Tokai University conducted a variety of events, such as the workshop on robot techniques online, Tokai Hygge (online student exchange program), and multiple seminars, symposiums with a Russian university. All these events contributed to the internationalization of Tokai University.

We actively promote our achievements of this on our website and social networking site in multiple languages (Japanese, English and Russian). An annual report of the effectiveness of the project is published every year.

## Good Practices

Tokai University believes that in the new future, the online program will be the core of the internationalization of the university. This project provides opportunities for all students who previously had difficulties participating because of the limited schedule or financial hardship.

A lot of international seminars, symposiums, exchange programs and other events were organized based on the outcome of this project. For the final year of the project, we are going to promote various academic, research, and students exchange events and cooperation.

**PERFORMANCE OF COMPLEX TECHNOLOGICAL OPERATIONS BY MEANS OF MULTILINK MANIPULATORS**

**Problems:**

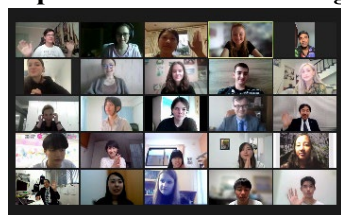
- inaccurately known position and orientation of parts in the working area of the manipulator;
- deformations of flexible parts may appear when they are fixed;
- it is necessary to simultaneously control the movement of the working tool, and the force effect on the surfaces of objects;
- It is necessary to perform operations at extremely high speeds.

〈Workshop on robotics online〉

# 5. FY2021 Progress Report

【“Fostering Bridge Personnel between Russia and Japan on Life Care for Economic Development in Russian Far East”】 (Year of Selection: FY2017, (Type A, Russia))

## Implementation of Exchange Programs



〈Online Summer School〉

Even though the Overseas Educational Cruise to Vladivostok aboard the Tokai University research and training vessel "Bosei Maru," which was scheduled for FY2021, did not take place due to the pandemic of COVID-19, Japanese and Russian students had a chance to participate in the alternative program “Online Summer School 2021”. During the program, students attended lectures given by experts from both sides and had a chance to discuss efficiency measures for both countries to cooperate in different areas. The mid- and long-term exchange programs were implemented in a hybrid format of online and actual dispatch. Furthermore, in March, an online program of the same format as the "Online Summer School" was implemented. In the same month, the Final Symposium was held online with the purpose of concluding the five-year program.

## Student-Mobility

### Outbound

The "Overseas Training Program" frame for Tokai University students was conducted entirely online with 28 participants. The mid- and long-term exchange programs were conducted in a hybrid format of online and actual dispatch with 14 participants. During the overseas training program, Japanese and Russian students studied various topics in cooperation with each other. In the mid-and long-term exchange programs, students not only learned aspects focused on life care and economics but also acquired practical skills that will be useful for business in Japan and Russia, such as internships at business incubators.

### Inbound

Both the “Overseas Training Program” and “Mid-and Long-term Exchange Programs” for Russian students were conducted online. 41 students participated in the “Overseas Training Program”, and 14 participated in the mid-and long-term exchange program. In the overseas training program, taking advantage of the characteristics of the online format, various lectures were given by experts from Japan and Russia, and consideration was given to making the curriculum as fulfilling as actual dispatch.

	2021	
	Plan	Results
Outbound	75	43
Inbound	65	55

## Quality Assurance for the Inter-University Network Formation

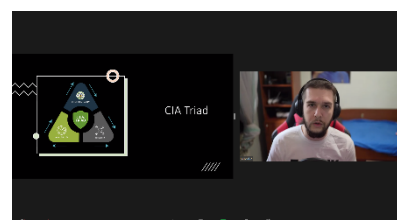
In planning and managing each program, efforts were made to maintain the quality of exchange in the inbound and outbound programs under the spread of COVID-19 pandemic. To understand and further improve the effectiveness of the online classes, the coordinator monitored the students’ academic progress and provided academic support and shared the results with the partner universities. In the short-term program, students were comprehensively evaluated based on class assignments, attendance, and group work results, and only those students who met certain standards were given certificates of completion. In addition, for the "Online Summer School," credits were granted to Japanese students who met the prescribed criteria. On the other hand, for the mid-and long-term online programs, the time schedule was designed to take into account the time differences and to allow students to take online programs while attending classes at their home universities. Quality assurance was made by granting certificates to those who earned the prescribed credits and fulfilled the program completion requirements.



〈Final Symposium〉

## Development of Student-Mobility Environment

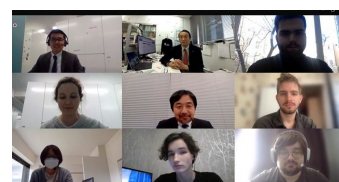
Even though there were difficulties from the COVID-19 pandemic during the previous fiscal year, working closely with partner universities and actively interviewing students led to providing timely and precious support for both learning and daily life, including maintaining the motivation of students participating online, and helping dispatched students take classes and manage their physical condition. In addition, a system of taking credits, which required students to come to Japan for the inbound program, was changed to allow students to take courses online. In order to realize this change, a system was established in which tutors supported students online. Also, the outbound program introduced a system that allows students to transfer credits for online courses taken at the host university. For the students who were dispatched, all possible measures were taken, such as instructing them on how to prevent infectious diseases and ensuring thorough health management. In addition, students who were dispatched to the host university were provided with study and daily life support through a buddy system at the host university.



〈 Overseas Training Online Spring Program 〉

## Internationalization of the University, Information Disclosure and Publication of Outcome

In preparation for the introduction of the ECTS system, which is used among European universities, we have registered Tokai’s courses in UCTS, the credit transfer system of UMAP, and made preparations for credit transfer with Russian universities. In addition, work was begun on a double degree program (DDP) at the graduate school level with the National Research University “Higher School of Economics” and a mid-term study abroad program in the spring semester with credit transfer between courses offered by both universities was also implemented, thus achieving quality exchange at the undergraduate level. In addition, the know-how of the online program developed through this project is being utilized in exchange programs with universities outside of Russia and has been a great success as a new form of international exchange for our university.



〈 Completion Ceremony for Mid-and Long-term Exchange Students 〉

## Best Practices

The biggest achievement of this fiscal year's activities was that the online program that had been implemented since the previous fiscal year was implemented in a quality-assured manner. This program was made possible by the establishment of a close relationship of trust with the partner universities in Russia, which itself was a major achievement of this project. With regard to the establishment of the DDP, which was one of the objectives of this project, a system has been completed with the National Research University “Higher School of Economics” to enable both universities to fulfill the credits required to obtain degrees, and preparations are underway to realize the DDP when the situation will allow the completion of official procedures.