FY2017 Inter-University Exchange Project Tokyo Institute of technology

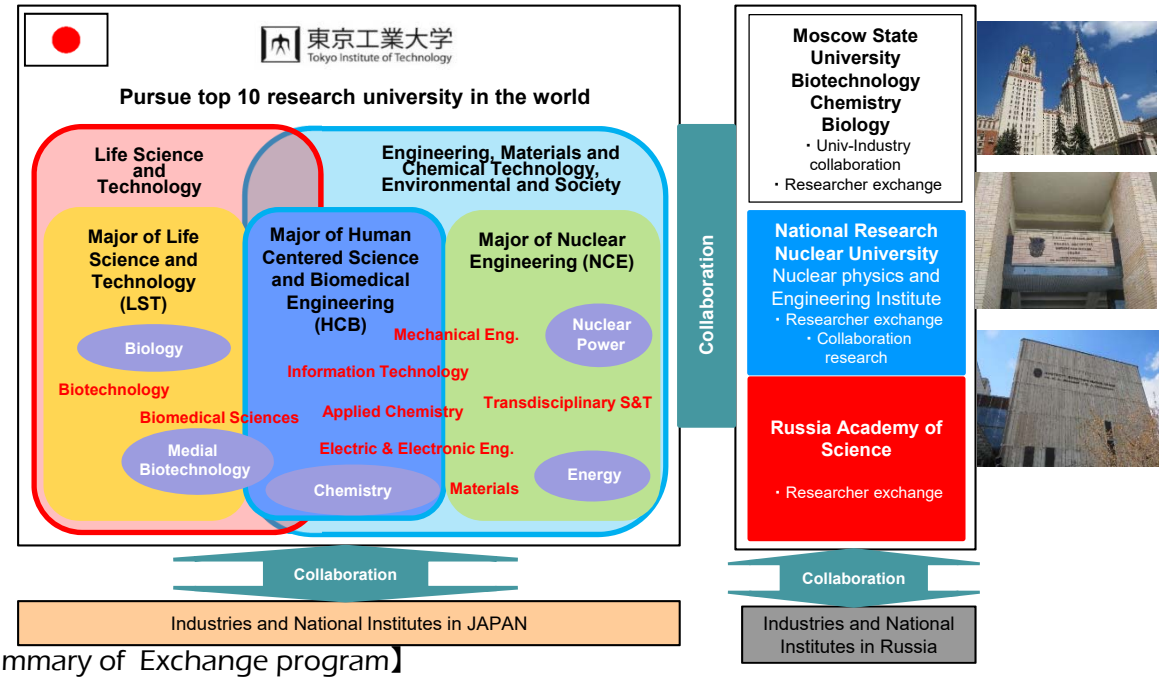
Support for the Formation of Collaborative Programs with Russian Universities

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

Nurturing leader scientists and engineers for healthcare, medical, nuclear power, and energy industries between Japan and Russia

【Summary of Project】

The project fosters researchers and engineers capable of global leadership in the healthcare and medical sectors, and the nuclear power and energy industries, through collaboration between Tokyo Institute of Technology and Russian institutions including Moscow State University and the National Research Nuclear University, with the goal of nurturing young engineers who can contribute to Japan-Russia industrial development in the fields of nuclear engineering, environmental science, medical engineering and biotechnology.



【Summary of Exchange program】

Building on previous exchanges between Japanese and Russian universities, academic exchange between Japanese and Russian students will be actively promoted through a program to send Tokyo Institute of Technology undergraduate and graduate students on short-term and long-term visits to Russian universities, and welcome undergraduate and graduate students from Moscow State University and the National Research Nuclear University on similar visits to Tokyo Institute of Technology. In addition, a student exchange forum will be conducted, providing opportunities for many more Japanese and Russian students to participate even if they have not been involved in exchanges.

【Global Human Resource on the project】

This project develops participants to be: (1) leading researchers and engineers capable of global activity on the future world stage through major contributions to the healthcare and medical sectors, and the nuclear power and energy industries, in Japan and Russia; (2) people with international, social and communicative competence to serve as bridges between Japan and Russia, and who go on to be capable of also constructing collaborative relationships with other countries in the world; (3) highly-skilled people who possess cutting edge specialist knowledge, skills and experience in engineering, and can demonstrate international leadership.

【Feature on the project】

This project actively promotes academic exchange between Japanese and Russian universities, and nurtures young engineers in both countries who can contribute to the future growth of Japanese-Russian collaborative industrial development. This is achieved mainly through collaboration among three different courses at Tokyo Institute of Technology – Human Centered Science and Biomedical Engineering, Nuclear Engineering in Interdisciplinary Research and Education, and Life Sciences and Technology for life science engineering – implementing student exchange with the top two universities in Russia in the field of transdisciplinary engineering.

【Exchange number】

	2017	2018	2019	2020	2021
Outbound	10	15	15	15	15
Inbound	10	15	15	15	15

1. FY2017 Progress

【Tokyo Institute of Technology】

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

Nurturing leader scientists and engineers for healthcare, medical, nuclear power, and energy industries between Japan and Russia

■ Exchange Programs

〈 The 1st Japan-Russia Student Exchange Forum 〉

Sufficient discussion in was held with Moscow State University (MSU) and the Russian National Research Nuclear University (MEPhI) on understanding of the purpose of this project and collaboration for project implementation.
Based on the discussion above, the following activities were successfully implemented in FY2017.
-Short term (2 weeks) dispatch of Tokyo Tech students to MSU and MEPhI.
-Short term (2 weeks) acceptance of MSU and MEPhI students to Tokyo Tech.
-Holding the 1st Japan-Russia Student Exchange Forum with participation of students and ptofessors of Toyo Tech and MSU and MEPhI.

Student-Mobility

○ Outbound

Eight students were dispatched to the MSU (Dept. of Chemistry and Dept. of Biotechnology) and three students were dispatched to MEPhI (Institute of Nuclear Physics and Engineering)

○ Inbound

Seven from MSU and four students from MEPhI were accepted to Tokyo Tech.

	2017	
	Plan	Results
Outbound	10	11
Inbound	10	11

■ Forming the University Network with Quality Assurance

○ Quality assurance of exchange programs

GPA (Grade Point Average) and TOEIC scores were taken into consideration for student selection. Also, since this program aims to exchange research, students were imposed both oral presentations and poster presentations.
Regarding the content of the exchange program, both faculty members of Japan and Russia exchanged their opinions on the implementation details and reflected them in the program

〈 PBL type training 〉

■ Promotion of Student-Mobility Environment

○ Improvement of environment for accepting foreign students

Various procedures of accepting students were supervised in this program office. This office has also responded directly to individual students' questions about visit to Japan. Also, for actual acceptance, faculty member and supporting students were accompanied the exchange students so that exchange students could concentrate on the program effectively.

○ Improvement of environment for dispatching Japanese students

All procedures necessary for dispatching were carried out by faculty member and administrative staff, and smooth dispatch was carried out. Also preliminary explanation was given to the students. Students were able to concentrate on the contents of the program due to the accompanying faculty member.

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

○ Internationalization of universities due to implementation of projects

In the student exchange program, there were some programs (eg, research presentations, PBL type training, etc.) in which not only students who were dispatched and accepted but also other students from both Russia and Japan had participated. As a result, it contributed to the promotion of international exchange with higher ripple effect.

○ Method and structure of information provision to domestic and overseas

The website of this project (Japanese, Russian, English) was created, so that necessary information can be clearly obtained from abroad. Also, a recruitment pamphlet (Japanese, Russian) for students of this project was created and will be used in the future for recruitment and public relations.

■ Good Practices

○ Holding the Russo-Japan Student Forum

As Russian faculty members participated, they began to have high awareness of participation in this project. Also all participating university members were able to meet together. As a result, it contributed to fostering a sense of unity. In addition Face-to-face meeting with professors from Russian universities could be carried out.

○ Student visits to companies and external organizations

Students visited Rosatom, Ajinomoto-Genetika Research Institute in Russia, visited Yokohama City University Medical School, Ajinomoto Inc. and Oarai Research Center of JAEA in Japan to absorb multifaceted knowledge.