

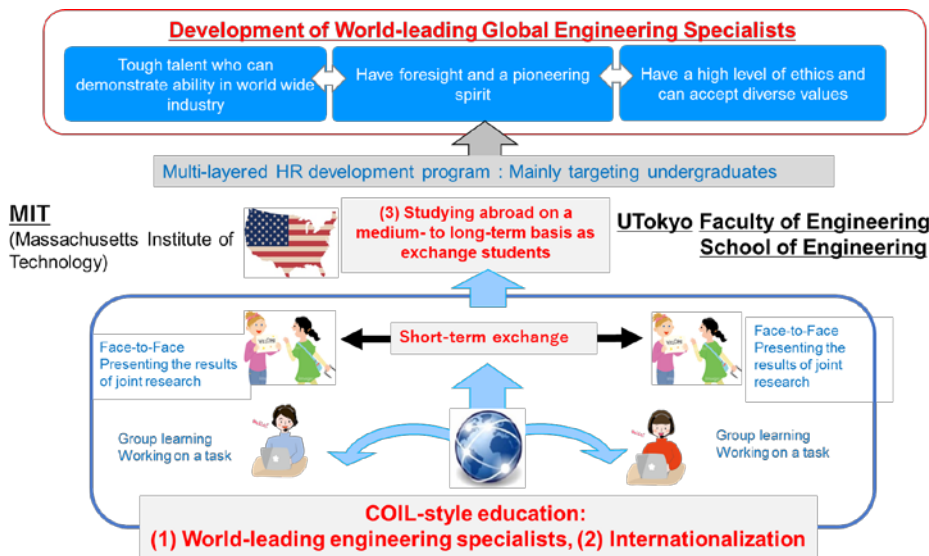


Project Title (Adopted : FY2018, Type A)

Japan-America Program for COIL-style Education of World-leading Global Engineering Specialists

Outline of the Exchange Promotion Program

Students from the Massachusetts Institute of Technology (MIT), U.S., and students from the School of Engineering at The University of Tokyo (UTokyo), will collaborate in classes through Collaborative Online International Learning (COIL). These mainly undergraduate students will work on given tasks jointly and also face-to-face in short-term visits. The program has three components: 1) COIL-style education for the development of world-leading global engineering specialists, 2) COIL-style education for internationalization, and 3) Dispatching/accepting exchange students on a medium- to long-term basis between the two universities.



Outline of the Exchange Program

- (1) COIL-style education for the development of world-leading global engineering specialists: Each group will comprise a few Japanese and U.S. undergraduate students in their second and third years at university. They will be tasked with research on a technology with growth potential. The Japanese students will discuss with their U.S. counterparts in the same group through Skype and other online methods for COIL. After preparing a report on the research, the Japanese and U.S. students will visit each other in their respective countries and present the research results in a student symposium. Students will attend classes at the other university online or by watching a video.
- (2) COIL-style education for internationalization: In order to learn each other's culture, accept diverse values, and acquire a high level of ethics for international society, UTokyo and MIT students will use their linguistic resources to learn their mutual languages of English and Japanese. Both graduate and undergraduate students will participate in COIL-style classes similar to the classes outlined in (1) above. UTokyo and MIT students will be paired to work on the same task, discuss by Skype, compile the research results for presentation, and finally visit their respective countries for cultural exchanges.
- (3) Dispatching/accepting exchange students: A total of five UTokyo students (from the Dept. of Materials Engineering, Dept. of Mechanical Engineering, Dept. of Mechano-Informatics, and Dept. of Systems Innovation) and a total of five MIT students (from the Dept. of Materials Science and Engineering, Dept. of Mechanical Engineering, and Dept. of Nuclear Science and Engineering) will be dispatched and accepted between the two universities per year as exchange students.

Human Resources to be Developed under the Program

The program will develop tough engineering specialists who can demonstrate their abilities in industries across the globe, those with foresight and a pioneering spirit, and those with a high level of ethics who can accept diverse values (world-leading global engineering specialists).

Features of the Program

The classes are held jointly by UTokyo and MIT. They build exchanges between Japanese and U.S. students by allowing face-to-face dialogues through symposiums and visits to cultural heritage sites/companies/laboratories in their respective countries. The program will help undergraduate students recognize the need to quickly acquire international caliber and abilities, and thereby encourage them to study abroad.

Number of Exchange Students under the Program

	2018	2019	2020	2021	2022
Japanese students to participate in the program's COIL-style education	35	55	60	70	70
Foreign students to participate in the program's COIL-style education	15	40	45	55	60
Students dispatched from UTokyo	20	35	40	50	55
Students accepted to UTokyo	15	40	40	55	55