

YSEP



Young Scientist Exchange Program



Tokyo Institute of Technology



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Essential Information

Tokyo Tech YSEP (Young Scientist Exchange Program)

Eligibility	At the time of participation, the student must be enrolled at a Tokyo Tech partner university ¹ and a) have completed at least two and a half years of study in a four-year bachelor's degree program, or b) have completed at least two years of a three-year bachelor's degree program, or c) be enrolled in a master's degree program
Period of Study	One Academic Semester (=2 Quarters) at Tokyo Tech: Spring: From March to August, or Fall: From September to February The study period cannot be extended.
Curriculum	Compulsory Courses (6 credits), comprising - Research Project (4 credits) - Topics on Japan (1 credit) - Study on Japanese Companies and Industries (1 credit) Participants may also take other courses at Tokyo Tech for which they are qualified ² , including Japanese language courses and courses taught in Japanese.
English Language Proficiency	(Required document) Official Test Score from TOEFL (iBT, PBT), TOEIC, or IELTS (PDF) or another official test score that certifies the applicant's English language proficiency along with the conversion tables for the test score and TOEFL, TOEIC, or IELTS scoring Native speakers of English are exempt from this requirement.
Scholarship	JASSO Scholarship ³ Monthly Stipend: 80,000 JPY
Application Deadline ⁴	For Fall Semester 2020: February 28, 2020 For Spring Semester 2021: August 20, 2020
Capacity	25 students per semester Please note that if there is oversubscription of particular research fields, the program may not be able to accept all nominees for those fields.
Website	http://www2.gakumu.titech.ac.jp/ysep/ (program website) https://form.gsic.titech.ac.jp/ryu/ (Tokyo Tech online application system)

¹ YSEP participants must have student status at their home university during their period of study at Tokyo Tech.

² Undergraduate students, with permission, may take courses indicated in the List of Graduate Courses Available to Undergraduate-Level International Exchange Students, as well as courses from GSEP, our English language-taught bachelor's degree program. Graduate students may enroll in any courses for which they are qualified. Many courses in our graduate program are provided in English.

³ JASSO determines awards according to its own criteria. Allocation of JASSO Scholarship funding is limited.

⁴ All application forms and related documents must be submitted through the Tokyo Tech online application system (<https://form.gsic.titech.ac.jp/ryu/>). Only nominated students from Tokyo Tech partner universities are able to use this system. After receiving nominations, we will send a unique ID and password to each nominated student so they may access the online application system.

For more information, please refer to the Tokyo Tech website and contact the student exchange office at your university. http://www.titech.ac.jp/english/graduate_school/international/exchange/ysep.html

1. Tokyo Institute of Technology

Tokyo Institute of Technology (Tokyo Tech) is the top national university for science and technology in Japan, with a history spanning nearly 140 years. Across its campuses in Ookayama, Suzukakedai and Tamachi, the university cultivates global leaders in the fields of science and technology and contributes to the betterment of society through its research focusing on solutions to global issues. The Institute's long-term goal is to become the world's leading sci-tech university.

As of May 2018, the total number of faculty and staff is 1,684. The number of undergraduate students is 4,828 and the number of graduate students is 5,384. The Institute produces an average of 370 new doctoral degree holders annually. In 2016, Tokyo Tech Honorary Professor Yoshinori Ohsumi received the Nobel Prize in Physiology or Medicine for his “discoveries of mechanisms for autophagy.

2. YSEP

Launched in the year 2000, YSEP (Young Scientist Exchange Program) is one of Tokyo Tech's flagship programs for exchange with partner universities. It provides international exchange students a unique opportunity to conduct a Research Project at Tokyo Tech as well as take courses in related subjects, try a Japanese language course, and gain in-depth understanding of Japanese industry and culture.

Each YSEP participant is assigned an appropriate academic supervisor for the Research Project. This faculty member guides the student as they study a selected research topic in the supervisor's laboratory. The professor's research field and the applicant's scientific interests are taken into consideration in deciding the student's research placement. YSEP Research Projects can be conducted in most of the scientific and engineering fields available at Tokyo Tech.

The Research Project offers an excellent opportunity for students to experience not only the Japanese research style but also to develop cross-cultural communication, problem solving and public speaking capabilities. In the laboratory, Japanese and international students, both undergraduate and graduate students, conduct research alongside each other, developing friendships and mutual understanding.

Each semester, YSEP accepts about 25 overseas students from universities with which Tokyo Tech has concluded Student Exchange Agreements. Participants are registered as International Exchange Students during their stay at Tokyo Tech. In addition to the Research Project, specialized courses and courses related to traditional and contemporary Japanese society and culture are offered in English. Japanese language courses at different levels are also available.

From AY2020, the YSEP Focused on Research and YSEP for Experiencing Japan (YEJ) will be integrated and offered as a half-year (one semester) program.

YSEP participants enjoy many opportunities to interact with other students and individuals, both on and off campus. We believe that this experience provides them with the necessary skills to work with people from different backgrounds in their future careers.

3. Duration of Stay

One semester: March to August (Spring Semester) or September to February (Fall Semester)

4. Participation Requirements

When they participate in YSEP, students must be enrolled in and have completed at least 2 and a half years of a 4-year bachelor's degree program, or be enrolled and have completed at least 2 years of a 3-year bachelor's degree program, or be enrolled in a master's degree program. YSEP participants must retain student status at their home universities during the exchange period. Provided the student can communicate effectively in English, Japanese language ability is not required for participation in YSEP. However, at the time of application, non-native speakers of English are required to submit a report of their TOEFL, TOEIC or IELTS score or other equivalent documents to certify their English language proficiency

5. Tuition and Fees

Students from universities with which Tokyo Tech has concluded a student exchange agreement that includes a tuition waiver provision are not required to pay application, entrance, or tuition fees to Tokyo Tech.

6. Application and Admission Process

Step 1: Please consult with the academic advisor at your university about the application for YSEP.

Step 2: Please contact the student exchange office at your home university and obtain your university's nomination for the exchange. Without the nomination by your home university, you will be unable to start the online application process.

Notice: We must receive nomination of your application via email from your home university's student exchange office so that we can recognize your application as coming from one of our partner universities.

Email: application2ysep@jim.titech.ac.jp

Step 3: We will send a unique ID and password to access the YSEP online application system to each nominated applicant via email.

Step 4: Submit the application form and related documents through the Tokyo Tech online application system. (<https://form.gsic.titech.ac.jp/ryu/>) by the relevant deadline.

The deadlines to submit applications to Tokyo Tech are as follows:

For YSEP Fall Semester: the end of February

For YSEP Spring Semester: August 20 of the year prior to participation

Step 4: Application results will be reported to you via your home university by April for those applying for YSEP Fall Semester, and by October for those applying for YSEP Spring Semester.

Should YSEP applicants' intended research topics be concentrated in particular research fields, it may not be possible for the program to place all applicants. In such cases, some applicants may be asked to change their research topics.

If an appropriate academic supervisor cannot be identified for a YSEP candidate, Tokyo Tech may not be able to offer admission to the program.

Step 5: Application for your student visa:

You must fill in the application form for the Certificate of Eligibility (COE) and send it back to the Tokyo Tech with a copy of your passport. Tokyo Tech will submit the two documents to the Immigration Services Agency on your behalf. It will take 4 to 8 weeks for the COE to be issued. After it is issued, Tokyo Tech will send it to you. You must then go to the Japanese Embassy or Consulate in your country with the COE and your passport and apply for your student visa for Japan.

7. Cost of Living and Financial Support

It costs on average about 100,000 - 150,000 yen per month for a single person to live in Tokyo, assuming they rent a private apartment. The exact amount you will need for your stay will vary depending on your lifestyle.

Students admitted to YSEP will be eligible to apply for a scholarship provided by the Japan Student Services Organization (JASSO). Although the number of awardees is limited, JASSO Scholarship recipients will receive a monthly stipend of 80,000 yen.

8. Accommodation

Tokyo Tech generally provides student housing for YSEP participants. YSEP students typically share twin rooms with other participants in the program. As the number of dormitory rooms is limited, there may be cases in which Tokyo Tech is unable to provide accommodation to all participating students.

9. Insurance

No matter how confident you may be about your health, you do not know when you may become sick or injured. The Japanese government instituted a National Health Insurance System so that residents of Japan can receive medical treatment at a reasonable cost. YSEP participants are required to enroll in the National Health Insurance system. After arrival in Japan, please go to the National Health Insurance Section of the municipal office for your area of residence and enroll in the insurance at that time. After enrollment, you will be required to pay the insurance premium on a monthly basis. As an international student, you may receive a discount on these payments upon declaration of your income.

Upon joining the National Health Insurance, you will obtain a National Health Insurance card. By showing the card at the clinics or hospitals where you receive medical treatment, you need to pay only 30% of the incurred medical costs. In addition to the National Health Insurance, Tokyo Tech considers it necessary for all students, both Japanese and international, to join insurance schemes that cover accidents and personal liability. YSEP participants are required to join these insurance schemes upon their arrival in Japan.



SJCI tour to JR East

10. Credits and Completion Requirements

In the Japanese higher education system, a 2-credit course usually comprises 15 lectures per semester. One lecture is 90 minutes long. In principle, 1 Tokyo Tech credit is equivalent to 2 ECTS/UCTS credit points. Academic tests or student reports are usually required by instructors for the purpose of student evaluation. At the end of the semester, Tokyo Tech will prepare an academic record of your work in YSEP and send it to the student exchange office at your home university. You can also obtain a copy upon request to Tokyo Tech's International Student Exchange Division.

The minimum requirements for completion of YSEP are as follows:

1. Final poster presentation and submission of a paper summarizing your research
2. Acquisition of at least 6 credits for the semester, including all compulsory¹ courses

In addition to compulsory courses, YSEP participants may take courses at Tokyo Tech for which they are qualified, including Japanese language courses and courses taught in Japanese or English.

11. Curriculum

The following table shows a general listing of courses and semester credits for a typical YSEP participant.

The courses marked with * are compulsory.

Subjects	Credits
Research Project *	4
Course related to Research Project	2
Japanese language	1-2
Topics on Japan *	1
Study of Japanese Companies and Industries (SJCI) *	1

12. Research Project

The Research Project is the main pillar of YSEP. It is an individual research project conducted under the guidance of an academic supervisor. As a YSEP participant, you will select a research subject in consultation with your academic supervisor. You must submit a report and make a poster presentation on your research at the end of the program. Please note that research projects can be very time- and energy- consuming, perhaps much more so than for a typical 4-credit course. Though challenging, the experience you gain through your research project will be beneficial to your future academic or professional career.

In the Research Project, you will discuss your research progress with your academic supervisor and fellow laboratory members, make presentations on your research, and read technical books and papers.

¹ The compulsory courses are the Research Project (4 credits), Topics on Japan (1 credit) and Study of Japanese Companies and Industries (1 credit).

14. Specialized Courses

YSEP participants may take other courses at Tokyo Tech for which they are qualified, including Japanese language courses and courses taught in Japanese. Undergraduate students, with permission, may take courses indicated in the List of Graduate Courses Available to Undergraduate-Level International Exchange Students, as well as courses from GSEP, Tokyo Tech's English language-taught bachelor's degree program. Graduate students may enroll in any courses for which they are qualified.



Home stay program (with the host families)



15. Common Program for YSEP Students

The following are the common courses provided by the International Student Center at Tokyo Tech for YSEP participants.

1. Topics on Japan, 1 credit

Through this course, students deepen their understanding of Japanese society and culture through lectures, discussions and site visits. They are also expected to make a group presentation on the situation in their own countries or on a selected Japan-related topic. Since this course is part of the regular undergraduate program, Japanese and other international students will also participate.

2. Study of Japanese Companies and Industries (SJCI) 1 credit

This course aims to deepen students' understanding of the practices of Japanese companies and industries through a series of lectures and study tours given by company representatives, including Tokyo Tech alumni.

3. Japanese Language Courses

Japanese language classes are available at a range of levels, from J1 (for beginners) to J7 (most advanced), usually on a pass/fail basis. Students who wish to obtain credits or certification for credit transfer may ask to receive grades for the courses.

16. Introduction to Master's and Doctoral Programs at Tokyo Tech

Many YSEP participants are interested in pursuing a master's or doctoral degree at Tokyo Tech. The International Graduate Program (IGP) provides international students this opportunity. The program does not require Japanese proficiency, as courses and research are conducted in English. Applicants to the IGP may be eligible to apply for Japanese Government scholarships.

Detailed information about the IGP application is published on the Tokyo Tech website every autumn.

http://www.titech.ac.jp/english/graduate_school/international/international_graduate/

17. Noteworthy Events on the Tokyo Tech Calendar

Late September: Fall Semester starts

1st weekend of October: Ookayama campus festival

October: Free health check for international students

Late December to early January: Winter vacation (no classes scheduled)

Late January to early February: Fall Semester examinations

Early February: Research project presentations and YSEP Completion Ceremony (Fall Semester participants)

Mid-February to early April: Spring vacation (no classes scheduled)

Early April: Spring Semester starts

2nd weekend of May: Suzukakedai campus festival

May: Free health check for international students

Late July to early August: Spring Semester examinations

The first week of August: Research project presentations and YSEP Completion Ceremony (Spring Semester participants)

Early August to late September: Summer vacation (no classes scheduled)



SJCI tour to JAXA

18. Universities with which Tokyo Tech has concluded Student Exchange Agreements with tuition waiver provisions (as of January 2019)

Country/Region	University Name	Date Concluded
China	Tsinghua University	1985/4
China	Xi'an Jiaotong University	1991/8
China	Zhejiang University	1993/9
China	Beijing Institute of Technology	1993/12
China	Dalian University of Technology	2006/11
China	Tongji University	2007/4
China	Shanghai Jiao Tong University	2017/2
India	Indian Institute of Technology Madras	2015/12
Indonesia	Bandung Institute of Technology	1988/6
Indonesia	Universitas Indonesia	1992/12
Indonesia	Universitas Gadjah Mada	2000/2
Korea	Korea Advanced Institute of Science and Technology (KAIST)	1986/5
Korea	Korea University	1992/9
Korea	Hanyang University	1996/4
Korea	Yonsei University	2002/4
Korea	Pohang University of Science and Technology (POSTECH)	2003/3
Korea	Seoul National University	2007/3
Philippines	De La Salle University	1992/5
Philippines	University of the Philippines, Diliman	2012/2
Singapore	National University of Singapore	1991/2
Singapore	Nanyang Technological University	2009/12
Taiwan	National Tsing Hua University	1998/11
Taiwan	National Taiwan University	1999/1
Taiwan	National Central University	2007/10
Thailand	Chulalongkorn University	1985/10
Thailand	King Mongkut's Institute of Technology Ladkrabang	1992/11
Thailand	Thammasat University	1996/3
Thailand	Kasetsart University	1996/12
Thailand	King Mongkut's University of Technology Thonburi	2007/10
Vietnam	Hanoi University of Science and Technology	1995/8
Canada	University of Waterloo	2006/12
U.S.A.	University of Washington	1974/5
U.S.A.	Georgia Institute of Technology	2001/1
U.S.A.	The University of California, Berkeley	2012/4
Austria	Technische Universität Wien	2015/9
Belgium	Ghent University	1992/9
Denmark	Technical University of Denmark	1992/9
Finland	Aalto University	1995/10
Finland	LUT University (Lappeenranta-Lahti University of Technology)	1999/4
France	University of Rennes 1	2002/5
France	Université de Strasbourg	2004/4
France	École Nationale des Ponts et Chaussées (École des Ponts Paris Tech)	1992/9
France	École Nationale Supérieure d'Arts et Métiers (Arts et Métiers ParisTech)	2002/4
France	École Nationale Supérieure des Mines de Paris(Mines ParisTech)	2007/4

Country/Region	University Name	Date Concluded
France	École d'Architecture de Paris la Villette	2000/7
France	École Polytechnique	2019/1
Germany	Technische Universität München	1982/7
Germany	Universität Stuttgart	1992/4
Germany	Leibniz Universität Hannover	2004/2
Germany	Rheinisch-Westfälische Technische Hochschule Aachen	2007/9
Germany	Technische Universität Berlin	2008/10
Italy	University of Bologna	1997/3
Italy	Politecnico di Milano	2002/5
Netherlands	Delft University of Technology	2009/2
Norway	Norwegian University of Science and Technology	1993/2
Sweden	Royal Institute of Technology (KTH)	1991/9
Sweden	Chalmers University of Technology	1992/10
Sweden	Linköping University	2008/2
Sweden	Uppsala University	2018/6
Switzerland	Swiss Federal Institute of Technology, Zurich (ETH)	1978/9
Switzerland	University of Zurich	2007/7
Switzerland	École Polytechnique Federale de Lausanne (EPFL)	2011/3
Switzerland	University of Geneva	2015/2
U.K.	University of Strathclyde	1993/2
U.K.	University of York	2016/6
Australia	The University of Melbourne	1994/8
Turkey	Middle East Technical University	1992/12
Turkey	Istanbul Technical University	2012/6

19. Comments from YSEP Alumni

1. YSEP and studying in Japan



Name: Afifa Ayu Koesoema

Home University : Microbiology Department, School of Life Sciences and Technology, Bandung Institute of Technology, Indonesia (2009-2014)

YSEP year : 2012-2013

Current Affiliation: International Graduate Program (IGP) A, School of Life Science and Technology, Tokyo Institute of Technology (2014-present)

Joining YSEP was one of the biggest leaps in my life so far. I had so many remarkable experiences during my one year YSEP program. The experiences came from those as basic as being independent to having the wonderful opportunity to be exposed to an international research environment. Since I want to pursue my future career in the academia, this early exposure — as a fourth-year undergraduate student — to an international research environment was crucial in shaping my perspective.

From YSEP, I learned to embrace differences. I had many friends from all over the world as well as Japanese friends. We experienced good and bad times together and also learned to understand each other's different ways of thinking. My fondness for Japan also grew because YSEP provided us so many exciting cultural experiences.

Finally, YSEP brought me back again to Japan to pursue my graduate degree, and currently I am a first year doctoral student at Tokyo Tech. I am so grateful to have joined YSEP. YSEP has given me the foundation that

shaped my personality and taught me to be more independent and confident. Through my YSEP experiences, I am now able to present my research results in international conferences, as well as serve as a teaching and research assistant in my laboratory. All these learning processes, I believe, are very influential as I shape my future career in academia.

2. A fantastic starting point for a career in Japan



Name: Wong Choon Leam, Julian

University: Faculty of Computing, National University of Singapore

YSEP year: 2007-2008

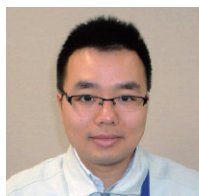
Current occupation: Developer (Pricing and Electronic Liquidity), Royal Bank of Scotland PLC

Tokyo Tech is one of the world's outstanding universities, and the year I spent on the YSEP program was the perfect mix of experiences and opportunities that would not have been possible were I anywhere else. Under the auspices of my tutors and friends, I learnt a not only great deal about my academic interests, but a much more besides. These lessons are often described as "cultural" ones; ostensibly they are lessons about how one would learn to live in Japan, about how the Japanese think and behave, and about Japanese society. This is certainly the case, but the experiences I have had on the program and the people I have met and come to know have also taught me countless other things about life in general that continue to stand me in good stead even now.

The YSEP program was also a fantastic starting-point for a career in Japan. Opportunities abound in Tokyo Tech to speak with representatives from several companies - members in my laboratory included people who were working for or would go on to work for NTT, Japan Railways, and Yahoo! Japan. There were also organized events where Japanese firms would be invited to campus to introduce career opportunities to graduates. Numerous doors were opened that would have remained closed had I not been in Japan and on the program, which have culminated in me being able to pursue one of my dreams - a career in Japan.

There is a cliché that says that opportunities are what you make of them. YSEP for me was a great opportunity, one that I am glad I had reached out for and made something out of, and one that I would endorse without reservation.

3.3. YSEP and working in Japan



Name: Do Ngoc Hung

Universities: Department of Computer Science, Hanoi Institute of Technology 1999-2004, Department of Computer Science, Tokyo Institute of Technology 2006-2008

YSEP year: 2003-2004

Current occupation: Information systems engineer at Panasonic Corporation.

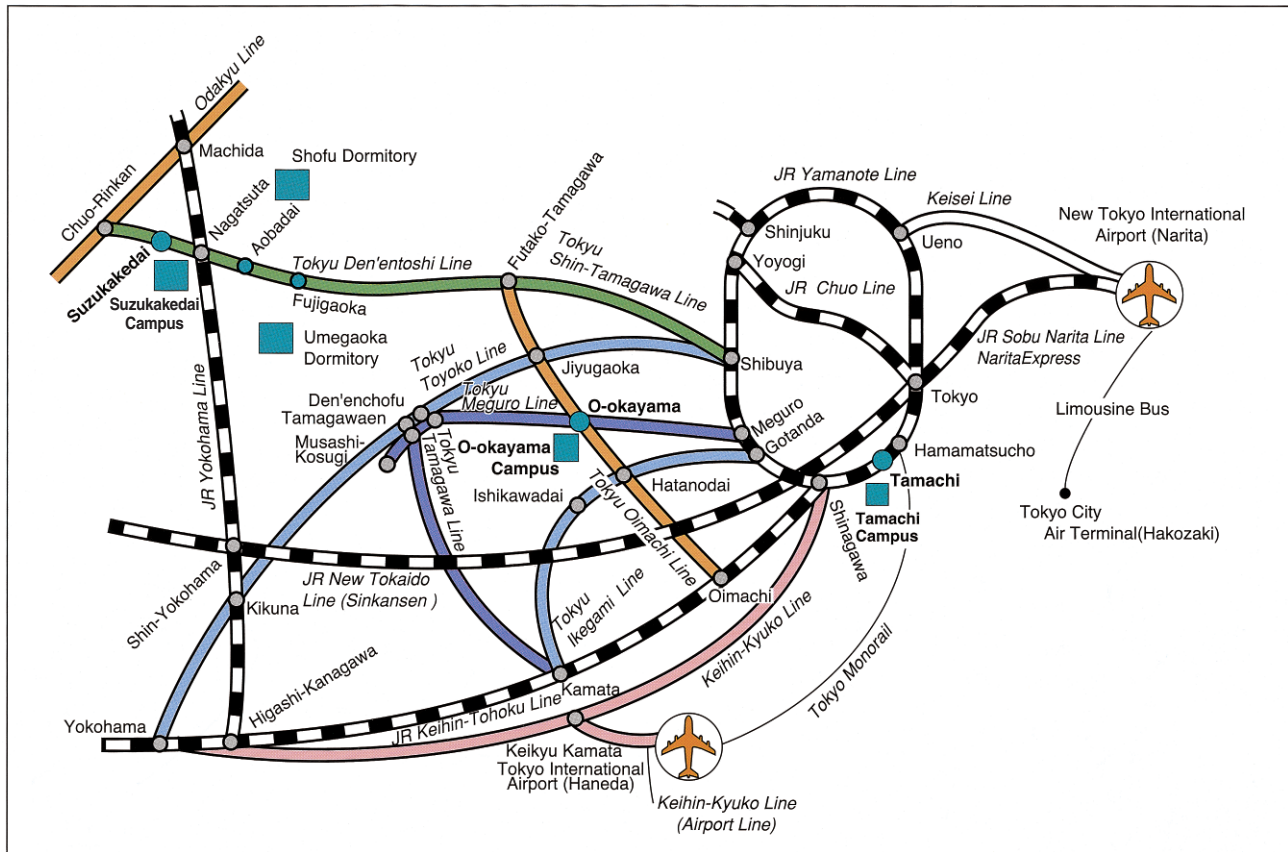
Hello! My name is Do Ngoc Hung. I came from Vietnam. Currently, I am working for Panasonic as a senior systems engineer. My work is to organize and innovate factory management processes in the oversea factories of Panasonic. There is a famous Japanese word "Kaizen" which means improvement. My main responsibility is to utilize IT systems to achieve 'Kaizen' in order to improve productivity, decrease loss, and warrant 'Zero Defect' in the whole production.

I joined the YSEP program at Tokyo Tech in 2003. One year in this program was a really short time because there were too many new and interesting things in Japan which I wanted to discover.

"Not being satisfied with one year" is the main reason which made me decide to come back to Japan after YSEP and study at a master course in Tokyo Tech. After graduation, I found a job in a Japanese company where I still work now.

20. For more information

LOCATION



YSEP Advisory professors

Assoc.Prof. Yuriko SATO in charge of YFR (YSEP Focused on Research)

Assoc.Prof. Tom HOPE in charge of YEJ (YSEP for Experiencing Japan)

Ookayama Campus 2-12-1, Ookayama, Meguro-ku, Tokyo, 152-8550

Suzukakedai Campus 4259 Nagatsuda-cho, Midori-ku, Yokohama, Kanagawa, 226-8503

International Student Exchange Division

2-12-1-S6-7, Ookayama, Meguro-ku Tokyo, 152-8550, JAPAN

tel +81-3-5734-7677, fax +81-3-5734-3677

ysep@jim.titech.ac.jp

http://www.titech.ac.jp/graduate_school/international/exchange/ysep.html



YSEP

Young Scientist Exchange Program

[http://www.titech.ac.jp/english/graduate_school/
international/exchange/ysep.html](http://www.titech.ac.jp/english/graduate_school/international/exchange/ysep.html)