Tokyo Tech

International Graduate Program (A)

Tokyo Institute of Technology

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Tokyo Tech is formulating a new education system to be launched in **April 2016**.
http://www.titech.ac.jp/english/education/reform/

Tokyo Institute of Technology 1

1. Outline

- Tokyo Institute of Technology (Tokyo Tech) is the top national university for science and technology in Japan with a history spanning more than 130 years.
- Of the approximately 10,000 students, half of them are undergraduates and the other half are graduate students

2. Schools From April 2016

6 Schools, 19 Departments and 1 professional master's degree program

- School of Science
- School of Engineering
- School of Materials and Chemical Technology
- School of Computing
- School of Life Science and Technology
- School of Environment and Society

3. Admission

Degree Program

- Overseas Application for International Graduate Program (IGP)

(Master's Program/Doctoral Program/Integrated Doctoral Education Program)

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

- General Examination (Master's Program/Doctoral Program)

Non-Degree Program

- Enrollment as a Research Student

4. Fees for Graduate Students

- Application Fee 30,000 JPY
- Admission Fee 282,000 JPY
- Tuition Fee 535,800 JPY (per year)

5. Scholarships and Financial Support

Japanese Government Scholarship (MEXT (Ministry of Education, Culture, Sports, Science and Technology) Scholarship)

Application deadlines:

- Embassy Recommendation: **March-June** at the Japanese Embassy in your country (Schedule for China is different.)
- University Recommendation:

  Degree Program (**IGP(A)**): **November 30, 2015**

  Non-Degree Program (**Research Student**): **November 20, 2015**

Other scholarships for privately funded students

- JASSO (Monbukagakusho Honors Scholarship for Privately Financed International Students)

Financial aid for doctoral students (TRA Program)

6. Accommodations

- Accommodations are available only for new international students who have come to Japan for the first time.

Tokyo Tech

International Graduate Program (A)

- Seven Programs
- Types of Programs: Integrated Doctoral Education Program, Master's Program, Doctoral Program

  Some curricular programs are set up as an Integrated Doctoral Education Program, designed to combine the Master's Program and Doctoral Program so that graduate students can obtain both degrees within three to five years.
- No Japanese language requirement: Lectures and seminars are held in English.
- Possibility to apply for the MEXT Scholarship (Limited numbers)

Application for September 2016 Enrollment

- Overseas Application
- Admission Date: September 23, 2016
- Application Period: August 3, - November 30, 2015
- Procedures, required documents and eligibility: **URL**

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

Tokyo Tech

	International Graduate Program (A)	Offered Degree Programs
1	Sustainable Engineering Program	Integrated Doctoral Education Program
2	Postgraduate Program for Multinational Architects in Conjunction with Engineering and Urban Design	Master's Program
3	International Graduate Program for Bioscience and Biotechnology	Integrated Doctoral Education Program
4	International Program for Interdisciplinary Science and Engineering	Integrated Doctoral Education Program
5	Education Program of Advanced Information Technology Leaders	Master's Program, Doctoral Program
6	International Graduate Program for Global Leaders on Engineering Systems with Humanities, Social Sciences, and Cultural Studies	Master's Program, Doctoral Program
7	International Program on Earthquake Engineering	Integrated Doctoral Education Program

1. Sustainable Engineering Program [SEP]

Type of Degree: Master of Engineering, Master of Arts
Doctor of Engineering, Doctor of Philosophy

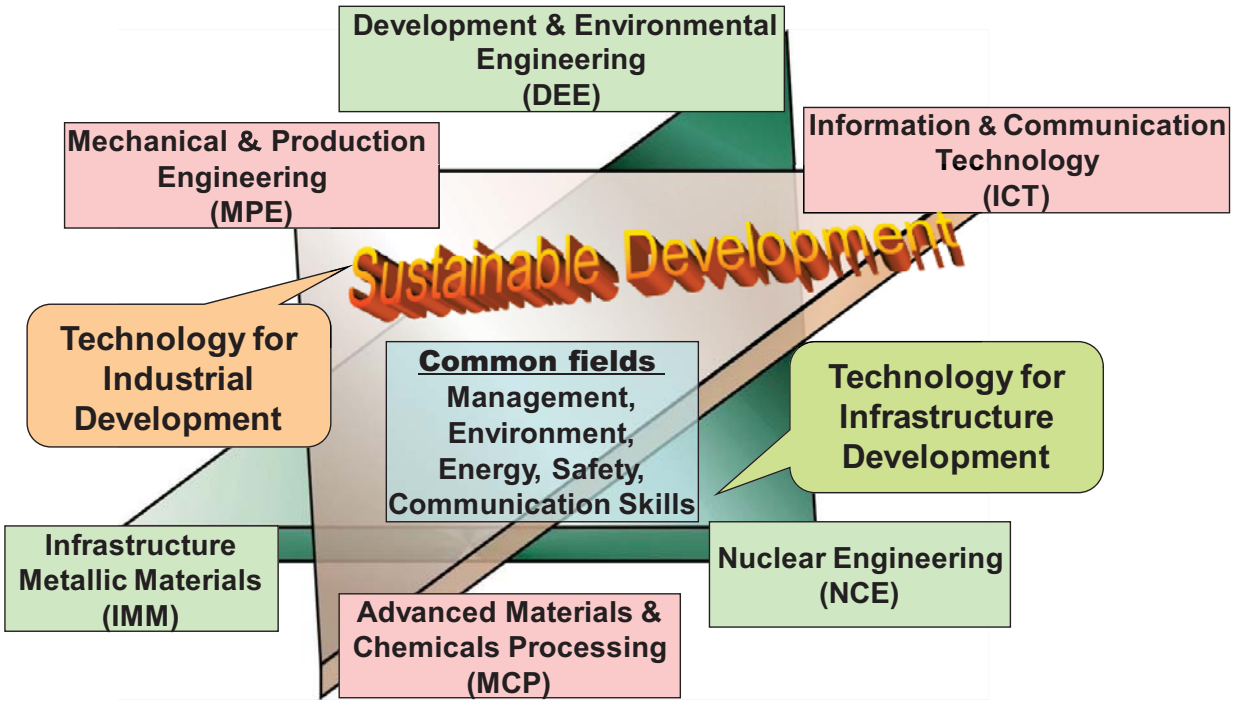
Program Outline

This program aims to train "highly educated, internationalized engineers" having a wide spectrum of technical knowledge from fundamentals to their applications. This program consists of six special courses providing a platform for engineering relevant to overseas deployment and development projects. Students enrolled in each course learn specialized subjects in their course and the others, in addition to liberal arts including Japanese language and culture. Furthermore, students take internship program primarily in domestic companies. The students will be educated in Integrated Doctoral Education Program, in which they are expected to study from Master's to Doctoral Education Programs continuously for the both degrees.

http://www.internat.eng.titech.ac.jp/~sep/

1. Sustainable Engineering Program

Six special courses



http://www.internat.eng.titech.ac.jp/~sep/

2. Postgraduate Program for Multinational Architects in Conjunction with Engineering and Urban Design

Type of Degree: Master of Engineering

Program Outline:

Our Department of Architecture and Building Engineering at Tokyo Tech originated in 1907 as part of the curriculum at Tokyo Tech's parent institution Tokyo Technical High School (i.e., Technische Hochschule) founded in 1881. The department is therefore one of the oldest university-level architectural schools in Japan. With its one-hundred-year history it enjoys a high reputation both within and outside Japan, a number of its graduates having become renowned architects, structural engineers or academics.

http://www.arch.titech.ac.jp/English/Graduate/international.html

2. Postgraduate Program for Multinational Architects in Conjunction with Engineering and Urban Design

Program Outline:

This International Graduate Program is solely for master's students and is administered chiefly by the Architectural Design Course of the department. (NB: all Japanese architectural degrees are conferred in the form of an engineering qualification.) Its major concentration is within architectural design (studio courses) and history and theory, with fieldwork broaching new architectural themes in an urban context. Requisite instruction to better understand Japanese megacities and the built environment throughout Japan will be offered in seminars that also include architectural tours. Instructors will assist and encourage students seeking to master these themes, and each student will be required to obtain 34 credits over two years of study and complete either a design diploma— or a written thesis in English— at the end of the second year.

http://www.arch.titech.ac.jp/English/Graduate/international.html

Tokyo Tech

3. International Graduate Program for Bioscience and Biotechnology

Type of Degree： Master degree and Ph.D. degree

Program Outline： The School of Life Science and Technology has launched a graduate program entitled "International Graduate Program for Bioscience and Biotechnology (BIO-IGP)" since 2012 within an integrated master's and doctoral education (IMDE), a five years curriculum. This IMDE curriculum commences every September and the classes are conducted in English. The primary aim of BIO-IGP is to foster student excellence within our various and sophisticated educational plans by exposing students to the advanced science and technology that underpins medical, environmental and informational industries and to other related areas of bioscience and biotechnology. We mainly set up advanced specialized subjects of three different researches,

- **Environmental & Chemical Biotechnology**
- **Medical Life Sciences & Biotechnology**
- **Computational Life Sciences & Biotechnology**.

Through enhanced exchanges between international and Japanese students, we will bring out high-level researchers and engineers who will flourish as national and global leaders.

Tokyo Tech

3. International Graduate Program for Bioscience and Biotechnology

Advanced special subjects

- Environmental Microbiology
- Science of Metabolism
- Computational Biology
- Medical Biotechnology
- Advanced Neuroscience
- Pattern Information Processing
- Biophysics
- Advanced topics in Mathematical Information Sciences
- Design of Bioactive Molecules
- Science of Biological Resources
- Biomaterial Science and Engineering
- Advanced Data Analysis
- Advanced Topics in Systems Life-Sciences
- Computational Brain Science
- Molecular Developmental Biology and Evolution

Special subjects

- Biomolecular Engineering
- Molecular and Cellular Biology
- Physical Biology of the Cell
- Cell Physiology
- Organic and Bioorganic Chemistry
- Biomolecular Analysis

http://www.bio.titech.ac.jp/english/exam/en_igp.html

4. International Program for Interdisciplinary Science and Engineering (IPISE)

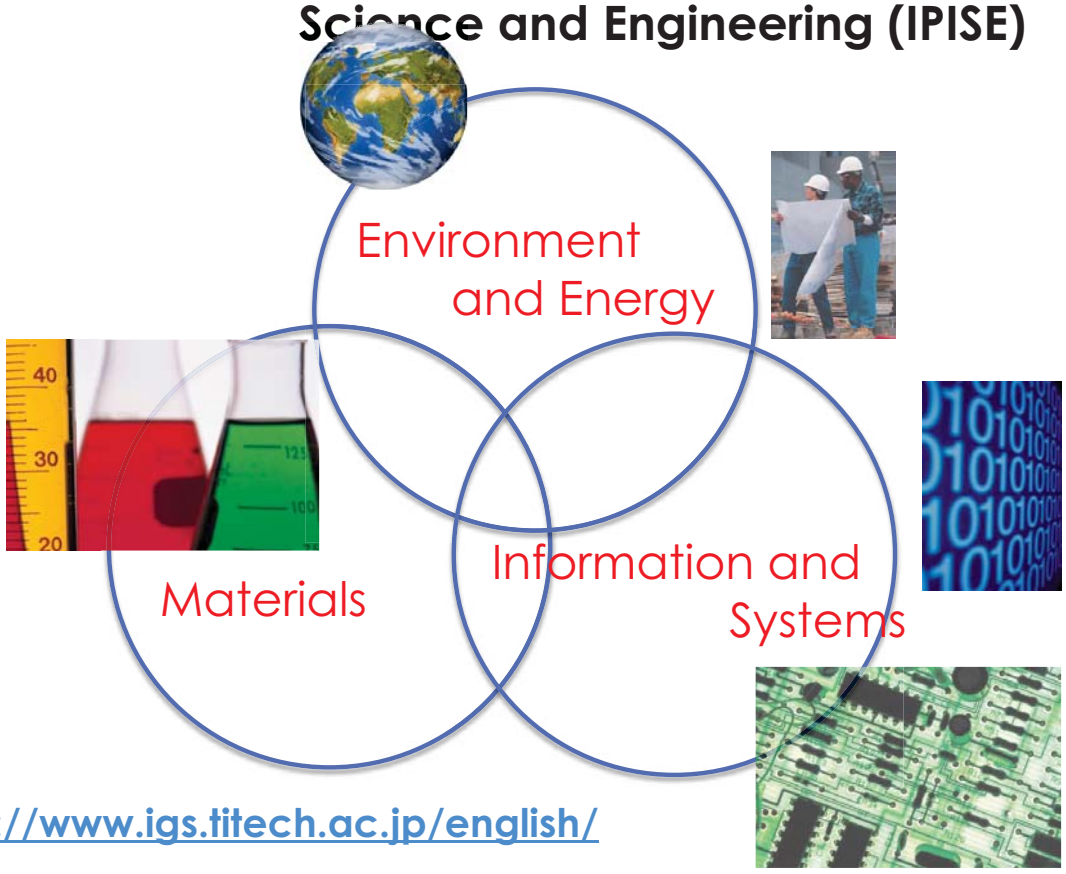
Type of Degree: Doctor of Science, Doctor of Engineering, PhD

Program Outline:

- IPISE is an integrated doctoral program for 5 years .
- IPISE has three courses: materials science, environment and energy, and information systems.
- IPISE is backed by the Japanese government with 12 MEXT scholarships for international students.
- IPISE is located in Suzukakedai Campus in Yokohama.

http://www.igs.titech.ac.jp/english/

4. International Program for Interdisciplinary Science and Engineering (IPISE)



http://www.igs.titech.ac.jp/english/

5. Education Program of Advanced Information Technology Leaders Program

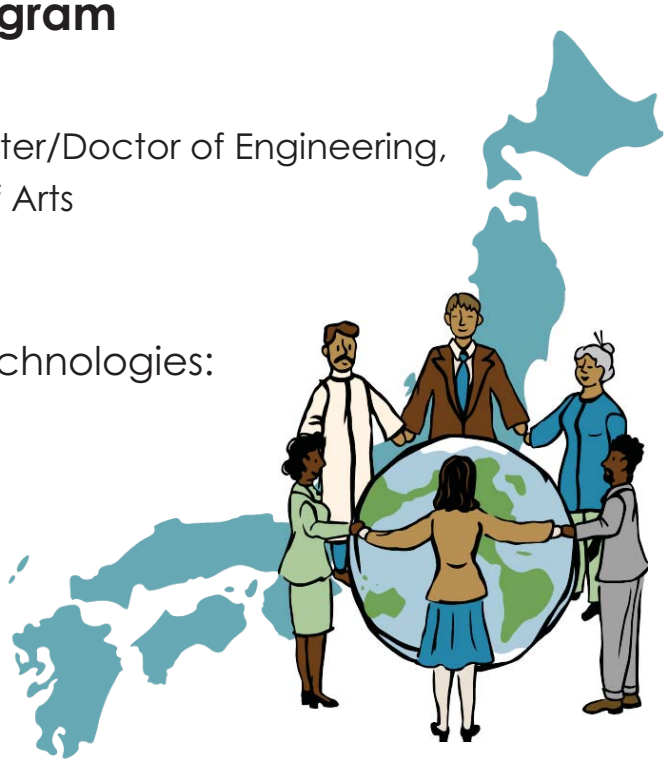
Type of Degree:

Master/Doctor of Science, Master/Doctor of Engineering,
Doctor of Philosophy, Master of Arts

Program Outline

You can learn Top-level IT technologies:

Multimedia Processing
Human Interface
Embedded Software
Robot Informatics
Regional Planning
Large-scale Computation



http://www.ise.titech.ac.jp/english/igpa/detail_114.html

5. Education Program of Advanced Information Technology Leaders Program

- Lectures in English
  - Students can take all credits without Japanese ability
  - Foreign and Japanese students discuss intensively
  - Presentation & discussion in multi-cultural environment
- Group Work
  - Master: Project based learning
    Doctor: Forum on Global Informatics
  - Managed with IT industries
  - Japanese and foreign students collaborate to create new systems, software
  - Cultivate a broad view in IT Technologies

http://www.ise.titech.ac.jp/english/igpa/detail_114.html

6. International Graduate Program for Global Leaders on Engineering Systems with Humanities, Social Sciences, and Cultural Studies (IGP-GLES)

Type of Degrees

Master of engineering / science / arts

Doctor of engineering / science / philosophy

Program Outline

- Brings up future global leaders in such various fields as policy making, national administration, legal institutes, industry, education, and academic research.
- Accepts excellent students from all over the world, and bring them up to be of capability and skills required to solve essential problems on engineering systems with harmonization among human, organizations, societies, cultures, and science and technology.

http://www.dst.titech.ac.jp/admission/admission_en.html

6. International Graduate Program for Global Leaders on Engineering Systems with Humanities, Social Sciences, and Cultural Studies

- Numbers of courses on knowledge of human, organizations, societies, cultures, science and technology, and Japanese style management technologies, all of which are provided in English.
- Interactive classes with discussion and presentation on engineering systems problems from global perspectives, in order for the students to obtain skills to utilize the knowledge and the technologies;
- Trans-disciplinary workshops which involve students, instructors, and experts to build up the visions of future global societies resolving engineering systems problems.
- The growing human resource network of the students, the instructors, and the experts who will participate in our program and will be global leaders of the future world.

http://www.dst.titech.ac.jp/admission/admission_en.html

7. International Program on Earthquake Engineering (EEP)

Type of Degrees:

Master of Engineering

Doctor of Engineering / Doctor of Philosophy

Overview:

This program offers courses and research opportunities leading to both Master's and doctoral degrees in Earthquake Engineering.

Our graduates find employment in industry, governments and universities and are expected to be highly skilled engineers or researchers who will make significant contributions to earthquake hazard mitigation world-wide.

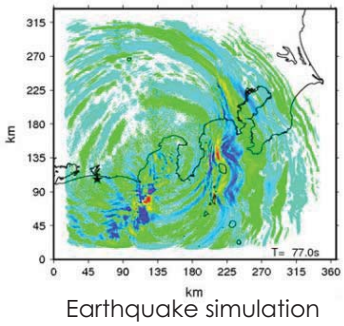
This combined Master's/Doctoral program can be completed within three to five years.

HP: Search with "Tokyo Tech EEP"
http://www.cv.titech.ac.jp/english/admission/eep.html

7. International Program on Earthquake Engineering (EEP)

Research topics:

- Innovation Technology for Earthquake Disaster Mitigation
  - Advanced technologies for precise seismic hazard simulations, high-performance seismic response analysis, high-performance composite design of foundation and structures
- Renovation Technology for Urban Earthquake Resilience
  - Technologies for seismic evaluation, retrofit and reinforcement of existing buildings and structures, emergency traffic flow control during seismic events, regional evacuation planning
- Management Technology of Urban Disaster Mitigation
  - Performance improvement for urban complexes considering social and business risks, education for disaster consciousness, strategies for business continuity plan and social community restoration



Earthquake simulation

Shake table tests on seismic dampers

Seismic retrofit of building

Returning home behavior after earthquake

HP: Search with "Tokyo Tech EEP"

International Graduate Program (C)

- Types of Programs: Master's Program, Doctoral Program
- No Japanese language requirement: Lectures and seminars are held in English.
- Admission period: the Spring Program (admission in April), and the Fall Program (admission in September)
- Admission Procedures, required documents and eligibility:

URL
http://www.titech.ac.jp/english/graduate_school/international/graduate_program_c/

International Graduate Program (A)	International Graduate Program (C)
Find an academic advisor. Information on our faculty members: Search by **"Tokyo Tech Star Search"** Please contact the intended academic advisor via email and provide a self-introductory statement and a letter of intent for your period of study at Tokyo Tech.	
Obtain English proficiency test score reports from TOEFL-iBT, TOEFL-PBT, TOEIC or IELTS Academic Module in two years before the application deadline.	
Interview by faculty members in person or via Internet	
Application Deadline: Nov. 2015	Application Deadlines: -Nov. 2015 for Apr. 2016 admission -May 2016 for Sep. 2016 admission
Screening by Tokyo Tech: Dec. 2015-Mar. 2016 (MEXT Scholarship student candidate selection included)	Screening by Tokyo Tech: -Dec. 2015 for Apr. 2016 admission -Jun. 2016 for Sep. 2016 admission
Screening by MEXT: Apr.-Jul. 2016	
Admission: Sep. 2016	Admission: Apr./Sep.2016

Research Students (Japanese Government Scholarship)

International Students(Non-Degree) Receiving a Japanese Government Scholarship (MEXT)

A scholarship recipient with excellent academic achievement may be eligible to enroll in Tokyo Tech's Master's or Doctoral Program and extend the duration of his/her MEXT Scholarship under certain conditions.

Embassy Recommendation

Apply through the Japanese embassy or consulate general in home country. Applicants should check with their Japanese embassy or consulate general for application procedures.

University Recommendation (Research Student Program)

Apply through Tokyo Tech. Applicants cannot be living in Japan from the time of application to the time of enrollment at Tokyo Tech.

http://www.titech.ac.jp/english/graduate_school/international/research_students/mext_scholarship.html

Tokyo Institute of Technology

http://www.titech.ac.jp/english/