AY 2024 Spring
Orientation for Incoming
Graduate Students
Commencing in April 2024

Student Success Support Section, Student Support Center

✉ concierge.info@jim.titech.ac.jp

Student Life Coaches Website
https://www.titech.ac.jp/english/student-support/students/counseling/concierge

Search Student Life Coach 🔍

Contents

1. About Us, Student Life Coaches

Student Life Coaches

Help new students successfully adjust to the academic environment.

● We offer support to help students with their studies at Tokyo Tech by providing consultation, guidance, seminars, etc.
● Please come to us if you have any problems or questions regarding campus life or how to take courses or make study plans. Support is available in English.

◇**How to consult us**

● **Face-to-face consultation:** Please come to the Student Life Coaches service desk at Taki Plaza or the Suzukakedai Library. For details, see the following two slides.

● **Consultation via Email or Zoom:** Please send your name, student ID number, affiliated School, department, or graduate major, and topics for consultation by email to the address below. If you wish to have a consultation on Zoom, please let us know the time and date that suits your schedule by email. We will arrange a mutually convenient time and date.

✉ Contact (Student Life Coaches):concierge.info@jim.titech.ac.jp

For more information, please visit the Student Life Coaches webpage.

https://www.titech.ac.jp/english/student-support/students/counseling/concierge
※Student Life Coaches are affiliated with the Student Success Support Section of the Student Support Center.

［Ookayama Campus］
Student Life Coaches Service Desk in Taki Plaza

大岡山東地区
Ookayama East Area

1 Main Bldg.
2 Global Scientific Information and
   Computing Center (GSIC)
3 Hisao & Hiroko Taki Plaza(Taki Plaza)
4 Centennial Hall (Museum)
5 Ookayama Library

Place：Taki Plaza B1 Floor
Student Support Center

Open： Monday-Friday/**9:15 -17:15**

★Visit the Student Support Center to ask for consultation
with a Student Life Coach.

Note: The office is closed on weekends, public holidays and school
holidays. The office may also close temporarily for events and other
unavoidable circumstances.

［Suzukakedai Campus］
Student Life Coaches Service Desk in　Suzukakedai Library
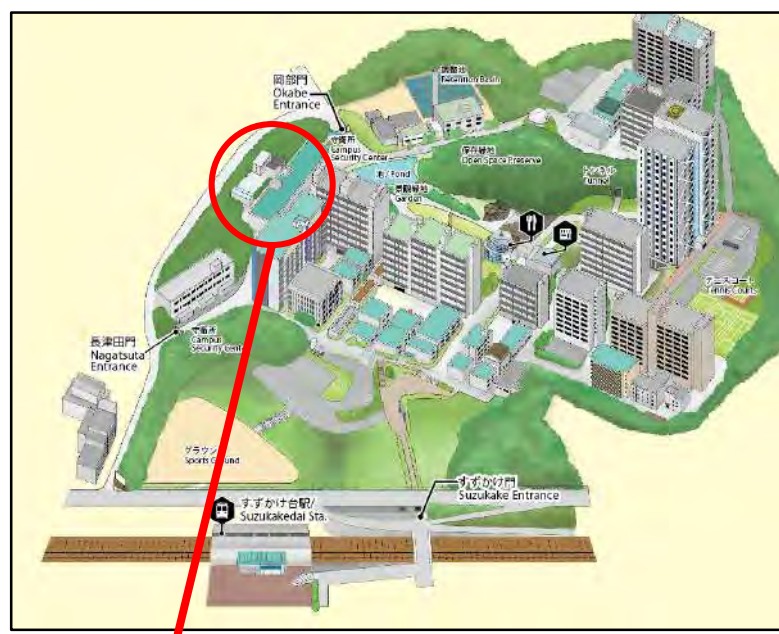
Suzukakedai Library

Place：Suzukakedai Library, 1st Floor
　　　（Located in the back, on the far-right side of the first floor）

Office Hours：**9:30-16:30**(2 days a week) Closed 11:15-12:15 for lunch
★Please check our opening days on the Google calendar ⇒

Note: The office is closed on weekends, public holidays and school holidays.
　　The office may also close temporarily for events and other unavoidable circumstances.

2. When you get your Student ID Card

1)**Get Connected** Online

☐ **Campus Wireless LAN**

- Before using the Tokyo Tech campus wireless LAN, read the usage guidelines and make the necessary settings.
https://www.noc.titech.ac.jp/doc/handout202304_en.pdf

☐ **Tokyo Tech Software Licensing Service**

- Many site-licensed software programs, including Microsoft Office, etc. are available for the Tokyo Tech community under a blanket license. Please read the usage information carefully before using this service.
http://www.officesoft.gsic.titech.ac.jp/en_index.shtml

☐ Tokyo Tech email address (@m.titech.ac.jp)

- Each Tokyo Tech member is assigned a designated Tokyo Tech email address. Use this address for correspondence with Tokyo Tech during your enrollment as a student.
- Check your Tokyo Tech email inbox regularly. Important notices, including those related to lectures and course registration, will be sent there.
- Read the detailed user guide at the following link. You can change the settings to automatically forward Tokyo Tech email messages to another email address. We recommend you to make use of
  this automatic forwarding feature.

    https://portal.titech.ac.jp/new-en/ezguide/webmail.html

- If you want to use email software (Ex. Outlook, macOS app, etc.) follow the instructions described in the following link.

    https://portal.titech.ac.jp/new-en/ezguide/mailsetup.html

2)First Things to Check

☐ **Graduate School Study Guide 2024**

The Guide contains general information common to graduate schools and details of each graduate major. It also includes information regarding Tokyo Tech's distinguished academies and education programs including ones beside your designated degree programs. Thoroughly read the Guide and design your own study.

https://www.titech.ac.jp/guide/guide_2024/English_F/

☐ **Orientations for New Graduate Students**

Separate orientation sessions will be held for individual courses（such as Entrepreneurship Courses) and for each major, to provide important information for course registration and planning studies. Please check the orientation schedules and be sure to attend all relevant sessions.

3. Introduction

1)History of Tokyo Tech

May 1881	March 1890	May 1901	April 1929	May 1949	April 2004	May 26, 2021
founded as **Tokyo Vocational School**	renamed **Tokyo Technical School**	renamed **Tokyo Higher Technical School**	Officially began conferring degrees, and renamed **Tokyo Institute of Technology**	Reorganization of the Institute following the enactment of the National School Establishment Law	Reestablished as National University Corporation **Tokyo Institute of Technology**	140th anniversary

1884–1892 Gottfried Wagener taught at the school

1890–1916 Seiichi Tejima served as school principal
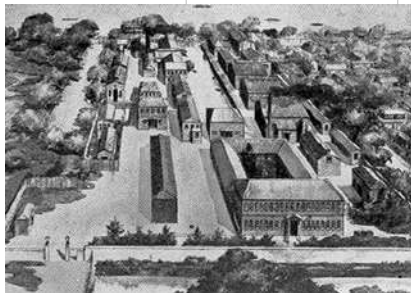
Tokyo Vocational School, Kuramae Campus

Main building of Tokyo Higher Technical School, Kuramae Campus

Ookayama campus, 1941

Main building of Tokyo Institute of Technology, Ookayama Campus

1882 Kuramae Campus opened

1906 Kuramae Kōgyōkai (alumni association) was founded

1923 The Great Kanto Earthquake
1924 Relocation to Ookayama

12

History of Tokyo Tech

◇Kuramae: The Birthplace of Tokyo Tech

December 1882

Brick buildings were erected in
Kuramae,Taito Ward,
for Tokyo Vocational School.

➢ Many great talents were fostered, awarding the school the adage, "Where there's a chimney, there're Kuramae."
➢ Kuramae Kōgyōkai, Tokyo Tech's alumni association, takes its name from this place.

September 1, 1923

Kuramae Campus buildings were
destroyed by the Great Kanto
Earthquake.

April 1924

The school was relocated to Ookayama.
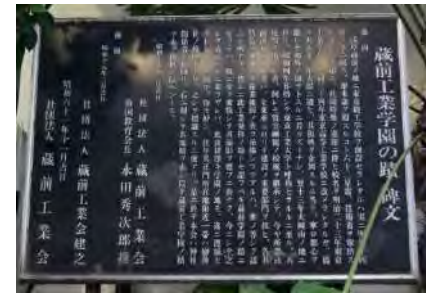
Tokyo Tech's monument stands on the grounds of the Dairokuten Sakaki Shrine.

● **Influential Figures during the Founding and Early Years**

◇Seiichi Tejima School principal, 1890–1916

Father of engineering education in Japan

While maintaining academia-industry ties, fostered individuals who were instrumental in the growth of private businesses and modernization of the industry.

• Advocated the importance of engineering education, and changed the name of the school from Tokyo Vocational School to Tokyo Technical School.

• Reorganized departments to better reflect trends in the industry.

• Revised the admission procedure to encourage applications (e.g., introduction of special admission for high achievers and entrance examinations in provincial areas).

◇Gottfried Wagener

Wagener was the sole foreign instructor during the early years after founding. In 1884, he began teaching a ceramic engineering course, and from 1886, he headed the newly established Glass And Ceramic Engineering Department. His experiments in ceramics resulted in Asahi ware, white earthenware decorated in Japanese motifs (on display at the Tokyo Tech Museum and Archives).

Tokyo Tech's World-Class Achievements

Determination of absolute zero, -273.15℃

The last two digits were defined in 1954 based on M. Kinoshita and J. Oishi's research.

Autophagy mechanisms

Y. Ohsumi received the 2016 Nobel Prize in Physiology or Medicine for his discoveries.

World's first CRT TV

K. Takayanagi invented the world's first CRT TV in 1926.

Fiber-optic communication

Y. Suematsu began researching optical communication in 1961. His students have gone on to contribute to the research and commercialization of fiber-optic communication technology at a global level.

Quantum computers

The quantum annealing model proposed by H. Nishimori in 1998 has helped in the development of quantum computers with commercial value.

IGZO thin film transistors

H. Hosono's invention of an amorphous semiconductor led to the world's first successful manufacture of IGZO-TFTs by Sharp.

TSUBAME supercomputer

The world's most energy-efficient supercomputer.

Tokyo Tech's World-Class Achievements

Temperature-insensitive quartz oscillation plates

Invented by I. Koga circa 1932. His achievement was recognized as an IEEE Milestone in 2017.

Ferrite

Ferrite, a magnetic material, was invented in 1930 by Y. Kato and T. Takei, and commercialized by TDK. Superconductors
H. Hosono discovered high-temperature superconductors made from iron compounds.

Conductive polymers

Discovered at Tokyo Tech by H. Shirakawa, conductive polymers are finding their uses in displays and LSIs. Shirakawa was awarded the 2000 Nobel Prize in Chemistry.

Contribution to ammonia synthesis

S. Tamaru was a member of the research team that pioneered industrial ammonia synthesis. Subsequent developments of catalysts were carried out by A. Ozaki, K. Aika, H. Hosono, and M. Hara.

Centennial Hall

Home to the Tokyo Tech Museum and Archives, the hall was designed by K. Shinohara, winner of the 2010 Golden Lion in Memoriam Award (La Biennale di Venezia).

Vitamin B2

T. Hoshino and T. Sato succeeded in the vitamin's synthesis and manufacture in 1951.

Gears

T. Nakata, who began his research on gears circa 1929, contributed greatly to advances in the automobile industry.

16

- **Nobel Prize in Physiology or Medicine 2016
  Honorary Professor Yoshinori Ohsumi**

- **IEEE　Milestone Plaque
  Professor Emeritus Issaku Koga**

Located on the Suzukakedai Campus

2) Education of Tokyo Tech

● **Education Reform to Cultivate Talent**

Talented people with the expertise and leadership skills to create a better future

Expertise	Leadership
• Acquisition of fundamental knowledge in a wide range of fields, including mathematics, physics, chemistry, and life sciences	• Broad vision based on accomplishments both inside and outside their areas of expertise
• Basic and specialized knowledge at the world's highest level in the fields of science and technology	• Ability to communicate and collaborate with people from different fields and cultures
• Will to contribute to society in science and technology fields	• Drive to take on global issues
	• Will and ability to take part in creating a better future
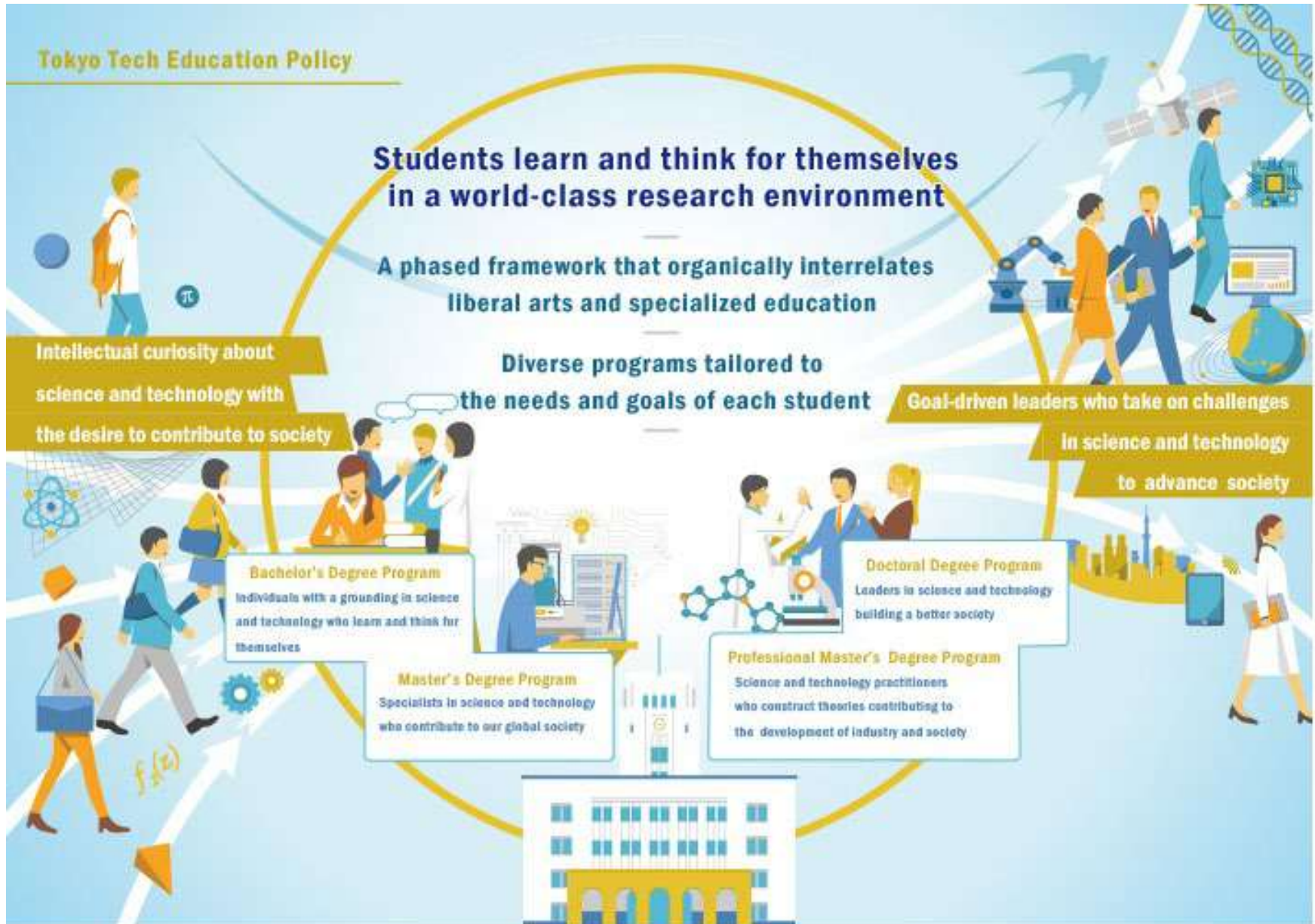
- ## **Professionals cultivated at Tokyo Tech (Master's Degree Program)**

Specialists in science and technology with the ability to contribute to society on an international level

The master's degree program equips students with:
- Broad specialist skills
- General intercultural skills
- Ability to integrate diverse ideas
- Enthusiasm to explore the mysteries of science and technology
- Ability to engage in practical matters

- ## **Degree Policy (Master's Degree Program)**

Specialist skills	Broad specialist skills: Wide-ranging expertise to conduct in-depth research and development
Liberal arts skills	General intercultural skills and developed independent study: • Broad knowledge and language skills necessary to grasp matters from a comprehensive and international perspective • Ability to continue learning and thinking for oneself with a purpose in mind • Willingness to try anything • Understanding of ethical issues
Communication skills	Various communicative methods using logic: • Skills necessary to provide logical explanations, responding to various circumstances • Ability to integrate diverse ideas
Applied skills **(inquisitive thinking and/or problem-finding skills)**	Passion for exploration: • Ability to organize phenomena from a multifaceted perspective and analyze them logically • Enthusiasm to explore the mysteries of science and technology
Applied skills **(practical and/or problem-solving skills)**	Application of problem-solving skills: Ability to solve practical problems, making full use of broad knowledge, skills, and creativity

20

- **Professionals cultivated at Tokyo Tech (Doctoral Degree Program)**

Leaders in science and technology with the ability to build a better society

The doctoral degree program equips students with:
- Superior specialist skills
- Developed intercultural skills
- Ability to provide logical explanations to society and exhibit leadership
- Ability to take on new challenges without setting limits and perceive the true essence and universality of matters
- Ability to generate new knowledge, create value, and inspire others

- **Degree Policy (Doctoral Degree Program)**

Specialist skills	Superior specialist skills: Superior expertise to promote research and development and generate and systematize new knowledge
Liberal arts skills	Developed intercultural skills and independent study, and self-motivated action: • Systematic and broad knowledge and language skills necessary to understand matters from a comprehensive and international perspective • Ability to learn, consider, and take concrete actions to generate new knowledge and create value • Willingness to take on new challenges without setting limits • Understanding of ethical issues
Communication skills	Social leadership: • Skills necessary to provide logical explanations to society, responding to various circumstances • Ability to exhibit leadership
Applied skills (inquisitive thinking and/or problem-finding skills)	Investigative work and new challenges: • Ability to organize phenomena from a multifaceted perspective and analyze them logically • Skills necessary to explore the mysteries of science and technology • Ability to perceive the true essence and universality of matters in order to identify and investigate problems and set new challenges
Applied skills (practical and/or problem-solving skills)	Advanced problem solving and making a positive impact: • Ability to solve advanced and practical problems, making full use of broad and deep knowledge and skills, initiative, and creativity • Ability to inspire others

4. Graduate Programs

1) Graduate Programs

● Durations of Study

- The standard duration of study is two years for a master's and three years for a doctoral degree program.
- Students may finish early and obtain both master's and doctoral degrees in a minimum of three years.
- Students can choose their durations of study to best accommodate their learning plan and goals.

【Standard duration of study】
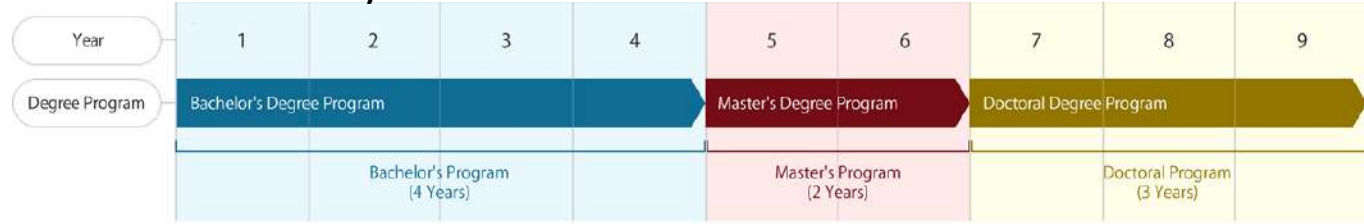
【Example of study plan for completion in 7 years】

In total, a minimum of three years of enrollment is required to get both master's and doctoral degrees.

● Standard Progression of Degree Programs

Bachelor's Program (4 Years)   **Master's and Doctoral Programs (5 Years)**

1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year

| School | Undergraduate Major | | | Graduate Major | | | | |

| Bachelor's Program | | | | Master's Program | | Doctoral Program | | |

● Admission

Master's Program entrance examination — ●

Completion of Bachelor's Program
Admission to Master's Program — ●

Students begin — ★ their research.

Doctoral Program advancement assessment — ●
Doctoral Program entrance examination

Completion of Master's Program
Admission to Doctoral Program — ●

Student Numbers as of May 1, 2023

Bachelor's students: 4,858 in total
International students: 5.6%
New enrollments: Approx. 1,100/year

More than **80%** advance to a master's program (about 900 every year).

Master's students: 3,999 in total
International students: 21%
New enrollments: Approx. 1,950/year

Close to **20%** advance to a doctoral program (about 250 every year).

Doctoral students: 1,563 in total
International students: 40%
New enrollments: Approx. 450/year

About 1050 from other universities every year

About 200 from other universities every year

Bachelor's Program
Course credits: 124 or more in 4 years
Students build a foundation for their specialized studies by taking courses.

Master's Program
Course credits: 30 or more in 2 years
Students spend more time in a laboratory conducting in-depth research rather than taking courses.

Doctoral Program
Course credits: 24 or more in 3 years
Students engage in high-level, original research to become a professional in their field, while taking fewer courses.

24

Major Milestones of Graduate Programs

5th Year	6th Year	7th Year	8th Year	9th Year
Master's Program		Doctoral Program		

- – Orientations and welcome events
- – Orientations and welcome events

← Seminars, conferences, research tours, etc. →

- – Master's research proposal presentation
- – Doctoral research proposal presentation

← Internship/Job Hunting →

← Job Hunting →

Thesis interim presentation – ●

- – Dissertation interim presentation
- – Preliminary examination

Thesis presentation and – ● final examination
Graduation events

Dissertation presentation and – ● final examination
Graduation events

Graduate students are more involved in laboratory research than in classes and lectures.

They will spend a lot of time with academic supervisors and research lab members, performing experiments and taking part in discussions, research paper readings, and seminars. Fellow students will have varied backgrounds. They may be international students, working adults, or research students. Internships, presentations at international conferences, and reading research papers are also an important part of graduate studies.

● Liberal Arts Education and Entrepreneurship Education at Tokyo Tech

➤ Students will be able to acquire the competencies to contribute to society through a combination of specialized education, liberal arts education, and entrepreneurship education.

What Students Can Do at Tokyo Tech

1. Establish one's own field of expertise through obtaining a master's or doctoral degree.
2. Participate in world class research.
3. Acquire education in the liberal arts.
4. Participate in academic conferences.
5. Broaden one's expertise by taking a minor or progressive minor as part of a master's degree program.
6. Develop an additional set of skills through Special graduate degree programs.
7. Take the first step to reach one's future goals.

Tokyo Tech's graduate programs will further develop the skills and strengths — including expertise, liberal arts education, and human skills — that students have acquired thus far, and guide them toward their future career path.

3) Curriculum and Completion Requirements
for Master's Degree Program

Master's and professional master's students are affiliated with a school and department. They must select a graduate major and fulfill the requirements thereof to complete a master's degree program.

For details, refer to the Study Guide available via the Institute website.
https://www.titech.ac.jp/english/student/students/life/resources

◆**Completion requirements** (Check detailed requirements for each graduate major.)
 Students must attain 30 course credits or more as specified below, conduct supervised research, and pass the master's thesis review and final examination. Those who are successful will earn a master's or professional master's degree.

Humanities and Social Science Courses	A minimum of 2 credits from the 400-level courses, and 1 credit from the 500-level course
Entrepreneurship Courses	A minimum of 2 credits from the 400- and 500-level courses Acquisition of the designated Graduate Attributes (GAs) is required.
Master's Major Courses and other 400- and 500-level courses	A minimum of 18 credits
Research Seminars	4-8 credits The number differs depending on the graduate major.

Note: Completion of the professional master's degree program requires students to have been enrolled in the program for at least 2 years, attained 40 or more credits, and taken courses from other degree programs.

◆**Other points to be noted**
- Degrees conferred: Master of Science, Master of Engineering, Master of Arts, Master of Management of Technology
- The standard duration of study is 2 years and the maximum duration is 4 years. Students may take leaves of absence for up to 2 cumulative years.
- Students with outstanding research achievements, or with additional credits attained from their previous graduate studies, may be eligible for early completion of the master's program.

4) Curriculum and Completion Requirements for Doctoral Degree Program

Doctoral students are affiliated with a school and department. They must select a graduate major and fulfill the requirements thereof to complete a doctoral degree program.

For details, refer to the Study Guide available via the Institute website.
https://www.titech.ac.jp/english/student/students/life/resources

◆**Completion requirements** (Check detailed requirements for each graduate major.)
Students must acquire 24 credits or more from 600-level courses as specified below, conduct supervised research, and pass the dissertation review and final examination. Those who are successful will earn a doctoral degree.

Humanities and Social Science Courses	A minimum of 2 credits
Entrepreneurship Courses	A minimum of 4 credits Acquisition of the designated Graduate Attributes (GAs) is required.
Doctoral Major Courses and other 600-level courses	6 credits There may be cases in which only credits from Doctoral Major Courses can be counted.
Research Seminars	12 credits

Note: Master's students may take 600-level courses under certain circumstances. The credits attained will be counted toward the completion requirements for their doctoral program.

◆**Other points to be noted**
- Degrees conferred: Doctor of Science, Doctor of Engineering, Doctor of Management of Technology, Doctor of Philosophy
- The standard duration of study is 3 years and the maximum duration is 6 years. Students may take leaves of absence for up to 3 cumulative years, and be enrolled in a doctoral program for up to 9 years.
- Students with outstanding research achievements may be eligible for early completion of the doctoral program. However, a minimum total of a 3-year enrollment is required to get both a master's and a doctoral degree. (The shortest period for obtaining bachelor's, master's, and doctoral degrees is 6 years, i.e., 3 years in an undergraduate program and 3 years in a graduate program.)

2) Advancing to a Doctoral Degree Program

Advancing from a Master's
program at Tokyo Tech

※Schedule for Internal Students Applying to a Doctoral Degree Program
https://www.titech.ac.jp/english/student/students/procedures/applying

Exam fee: None   Enrollment fee: None

Schedule for April enrollment

Early November: Internal Application Form will become available (students may download the form from the website.)

Contact: [Ookayama] Graduate Services Group, Student Division, Student Services Department
[Suzukakedai] Graduate Services Group, Student Division, Student Services Department

Early December: Internal Application Form submission deadline

December–February: Advancement assessments
Assessment methods and criteria differ according to the major.
Note: Foreign language proficiency tests may also differ. Refer to each major's study guide for details.

Mid-March: Decision reached on successful applicants

5. Institute for Liberal Arts/ Liberal Arts Courses

● Liberal Arts Education

(Liberal Arts Courses offered by ILA)

No problem in the real world can be solved through the power of a single academic discipline. To apply your expertise in the real world — no matter how advanced is — you need the leadership abilities to advance projects while interacting with others, the ability to see where your field of study fits into the overall academic landscape, and knowledge of the cultural and social backgrounds of many other places across the globe.

Our liberal arts courses are divided into several subject categories as shown below. Each of these categories may have one or more courses, with each covering different content.

[Core Liberal Arts Education]

Master's Degree Program (Liberal Arts Courses)

Doctoral Degree Program (Liberal Arts Courses)

| Tokyo Tech Visionary Project | Liberal Arts Final Report | Leadership Workshop | Peer Review Practicum | Facilitation Practicum | | Cross-Boundary Liberal Arts Courses / Collaboration across STEM and Liberal Arts |

Peer reviews

Facilitation

Along with core courses, a diverse range of courses is offered that encompasses humanities and social sciences, foreign languages, wellness studies, and Japanese language and culture.

Essence of Humanities and Social Sciences

Transdisciplinary Studies

Area Studies etc.

1) Institute for Liberal Arts/Liberal Arts Courses

The Institute for Liberal Arts (ILA) helps shape the future of Tokyo Tech students through its education, which combines with the specialized science and technology expertise that our six Schools provide.

The ILA aims to develop individuals who understand the challenges of the 21st century, recognize their individual societal roles, possess the willingness and creativity to take action, tackle problems, and achieve goals in order to build a better future society.

Social skills
Sociality

Ability to fulfill one's role and responsibilities within a team

Creativity

Ability to take on new challenges and drive innovation

Humanity

Ability to develop self-awareness and appreciate diversity in others
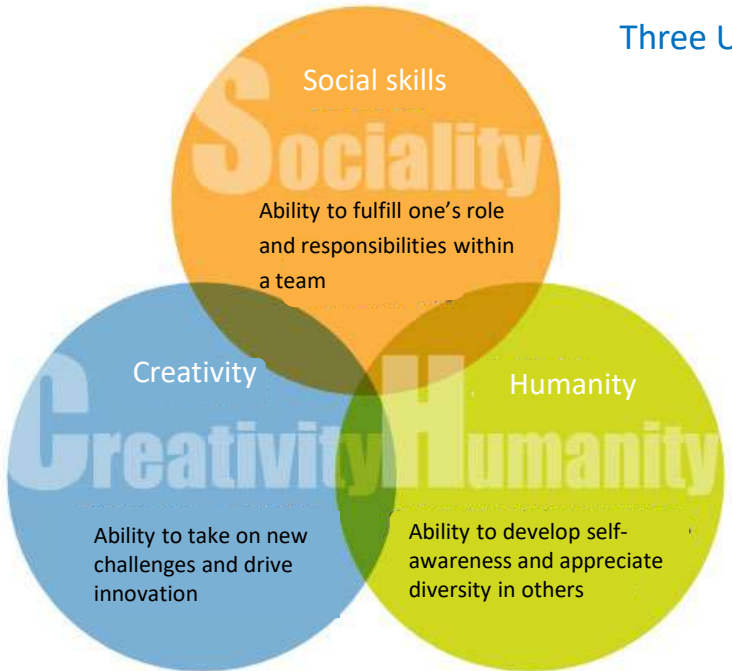
Fostering the aspirations of Tokyo Tech students

Three Unique Aspects of Liberal Arts Education at Tokyo Tech

1. Vision-oriented and self-directed studies

Students will develop a humane approach and social skills that nurture a vision of how to apply specialized knowledge to realize their aspirations in the real world. They choose courses that match their future goals, proactively designing their own course of study.

2. Core Liberal Arts Courses

Core Liberal Arts Courses are the pillars of our distinctive liberal arts education and are offered throughout undergraduate and graduate studies. They include courses such as the Tokyo Tech Visionary Project, the Liberal Arts Final Report, the Leadership Workshop, and the Cross-Boundary Liberal Arts courses.

3. Teaching and learning together

We provide numerous opportunities for group work in which students interact with each other, and develop leadership and facilitation skills.

< Core Liberal Arts Education for Master's Students >

Leadership Workshop

Students will acquire the leadership skills to lead a team toward a goal while making the most of the abilities of your teammates. For students who pass the exam with the prescribed grades, practical subjects are provided to further improve their skills by making use of the abilities they have acquired.

Peer Review Practicum

Through support for writing papers, students will learn the basic knowledge of academic writing and acquire skills to draw out the writer's ideas through dialogue.

Support for those composing their "liberal arts final report"

Facilitation Practicum

After learning facilitation theory and techniques, students will acquire facilitation skills by participating as facilitators in small group classes of the undergraduate course.

Facilitate the "Tokyo Tech Visionary Project"

< Core Liberal Arts Education for Doctoral Students >

Cross-Boundary Liberal Arts Courses

Doctoral students in these courses work with researchers from different fields to make proposals to solve problems while monitoring trends in cutting-edge, interdisciplinary research. In this way, they create a forum for exchanging knowledge throughout the doctoral program.

Collaboration across STEM and Liberal Arts

We will invite guests who are active on the front lines of each field, and we will have research presentations and discussions by the guests, and group work by the students. We will explore new developments and possibilities in convergence science.

Build the skills to communicate with students in other fields of specialization or different cultural backgrounds

Develop leadership and information-dissemination skills as well as interdisciplinary competence

Build an awareness of one's role in society

34

- **Liberal Arts (Humanities and Social Science)**

Courses for Master's Students ①

Humanities and Social Science Course numbers begin with "LAH."

There are Core Courses and other courses as described below:

➢ Completion requirements

Students must attain at least two credits from 400-level courses and one credit from 500-level courses to complete their master's degree program.

The total of three credits/courses (one credit per course) may come from any combination of Core Liberal Arts Courses and other liberal arts courses.

➢ Course sequence (in order of course level)

Tokyo Tech provides a wedge-shaped style education that allows students to continuously take liberal arts courses from a Bachelor's Program to a Doctoral Program. Students are recommended to take liberal arts courses in ascending order of course level. In the semester right after enrollment in the Master's Degree Program – i.e., 1Q and 2Q for students who enroll in April, and 3Q or 4Q for students who enroll in September – students may register only in 400-level Humanities and Social Science Courses.

Students may take 500-level Humanities and Social Science Courses after studying at least six months at Tokyo Tech after enrollment, i.e., in 3Q and 4Q for students who enroll in April, and in 1Q and 2Q of the following year for students who enroll in September.

➢ Core Liberal Arts Education

400-level courses: Leadership Workshop (1-4Q)

400-level courses: Peer Review Practicum (3Q, 4Q)

500-level courses: Facilitation Practicum (1Q)

To take the Peer Review Practicum and Facilitation Practicum, students must have completed the Leadership Workshop with a score of 80 or above.

➢ Other courses (offered every quarter)

Essence of Humanities and Social Sciences (about politics, literature, etc.)

Transdisciplinary Studies (co-organized by science and engineering and liberal arts instructors)

Area Studies (about culture, religions, etc.)

Course content is subject to change. Please check the course syllabi and the website regularly for the latest information.

● **Liberal Arts　(Humanities and Social Science)**

Courses for Master's Students　②

➢ Pre-registration

- Pre-registration is available for Humanities and Social Science courses in the Master's degree program, which is intended to help students take their desired courses as much as possible, while each course sets a maximum number of students to register based on the course's characteristics. Pre-registration periods are set twice a year prior to the formal registration period: once before 1Q and 2Q, and another for 3Q and 4Q.
- These procedures are conducted on the Web System for Students and Faculty on the Tokyo Tech Portal. Once the pre-registration period is closed, courses with many applicants will select students by lottery. Many courses fill up quickly and registrants are decided by lottery. During course selection, those students who have pre-registered will have priority, so please be sure to pre-register.

> Q1/Q2 AY 2024 Pre-registration period
> for Humanities and Social Science courses:
> From 9:00 on Thursday, April 4 to 13:00 on Monday, April 8
>
> Please see the details in the orientation materials and in the video session explained in the next slide.

*Pre-registration notices will be sent by email. Please be sure to confirm all emails sent from Tokyo Tech to your m.titech.ac.jp email address.

*Emails may also be confirmed in "News" at the top page of the Web System for Students and Faculty.

- **Orientation for Liberal Arts (Humanities and Social Science) Courses for Master's Students ③**

> Orientation for new students entering in April 2024 will be conducted via online streaming. **All new master's students are required to attend.**

【**Orientation video streaming period**】
 Video available from Monday, April 1, 2024
【**Orientation materials/video content include**】
  • **Explanation of liberal arts courses**
  • **Explanation of the pre-registration system**

「Online Liberal Arts Course Guide」
https://bunkei.ila.titech.ac.jp/

Liberal arts courses adopt a pre-registration system. Unless you follow the pre-registration procedures, you may not be able to register your preferred liberal arts courses. Pre-registration for AY2024 1Q–2Q liberal arts courses will be open from April 4 to April 8.
 A detailed information regarding the pre-registration system will be provided during the liberal arts course orientation. Please download and carefully read the orientation materials from the Online Liberal Arts Course Guide website, watch the orientation video, and complete the pre-registration.

Note: There will be no classes for **400-level** (master's level) liberal arts courses on Wednesday, April 10.
 400-level liberal arts courses will begin on Wednesday, April 17, after the release of the results of pre-registration requests submitted by new first-year master's students. The first classes for 500-level courses (Wednesday, April 10) and Facilitation Practicum (Monday, April 8) will be held in accordance with the academic calendar. Please note that these courses are not open to M1 students.

Liberal Arts (Humanities and Social Science) Courses for Doctoral Students ①

➢ ## Completion requirements

Students must attain at least two credits from 600-level courses to complete their doctoral degree program.

➢ ## "Cross-Boundary Liberal Arts Courses" (all in English; two credits per course)

- The course will be conducted in 2Q and 4Q, five times as livestreamed lectures and twice as on-demand lectures. The content taught in 2Q and 4Q are identical, so please take the course in either quarter.

- Livestreamed lectures are scheduled for every other Saturday (periods 1-4) and will be conducted using Zoom. Please check the course syllabus and select a quarter in which you will be able to attend all dates. Because these courses focus on group work, authorized absences will not be accepted in principle. For arrangements for absences due to sickness and other unavoidable reasons, please check the course syllabus.

➢ ## "Collaboration across STEM and Liberal Arts"(文理共創科目) （two credits per course）Students enrolling in AY 2022 or later are not allowed to take courses that are worth one credit each.

- These courses will be held in 1Q through 4Q in the form of research meetings, to which external lecturers are invited, and respective course schedules may be different from the regular course schedule and timetable. Please make sure to check the course schedule and registration criteria with the course syllabus in advance.

➢ Preset number of students per course（Common to Cross-Boundary Liberal Arts Courses, Collaboration across STEM and Liberal Arts)

- If the number of applicants for a course exceeds the course capacity, registrants will be selected by lottery based on the registration status on the Web System for Students and Faculty. The lottery will be conducted during the set period prior to the first day of the course. Please make sure to complete the course registration by the deadline stated in the respective course syllabus.

- Important notices from Tokyo Tech will be sent to your m.titech.ac.jp email address (xxx@m.titech.ac.jp), including the results of the lottery for courses where the number of applicants exceeds the capacity. Please make sure to complete email settings in advance so that you will not miss any important notifications.

Inquiries: Office of Humanities and Social Science Courses, Institute for Liberal Arts

■**Humanities and Social Science Courses**（Common both to the master's and doctoral programs)
bunkei.jim@titech.ac.jp
■**Liberal Arts Core Courses** (Common both to the master's and doctoral programs)　　core.jimu@ila.titech.ac.jp

Humanities and Social Science Courses website:　https://bunkei.ila.titech.ac.jp/

2) Japanese Language and Culture Courses

• Japanese Language and Culture Courses are designed for international students and offer a variety of courses from basic to pre-advanced level.

• Credits obtained from the Japanese Language and Culture Courses can be recognized as equivalent to the credits of the Humanities and Social Science courses - 400, 500, and 600 level courses. This can be adopted to the doctoral degree program students too.

• Specific Skill Courses are designed to improve targeted areas like conversation, kanji, writing, Entrepreneurship, etc.

• To apply for these courses, access the Japanese Class Online System (JCOS) and follow these steps:

1. Create your account in the JCOS.

2. Take the Japanese language test.

3. Reserve your class.

Students who have higher Japanese fluency than the expected level for these courses are not eligible to register for the courses (including those who have graduated from Tokyo Tech and other universities in Japan).

*For the information about Japanese language and culture courses, visit the URL below.

Tokyo Tech Japanese Language and Culture Courses for Graduate Students

Basic		Pre-Inter	Intermediate			Pre-Advanced
B1, B2	B3, B4	I1, I2	I3, I4	I5, I6	I7, I8	U1 ~ U8
REGULAR COURSE						
400Lv	400Lv	400Lv	400Lv	500Lv	500Lv	
Basic Japanese 1,2	Basic Japanese 3,4	Intermediate Japanese 1,2	Intermediate Japanese 3,4	Intermediate Japanese 5,6	Intermediate Japanese 7,8	

SPECIFIC SKILL COURSE 400Lv						
Japanese conversation	Pre-inter. 1,2					
	Inter. 1,2	Inter. 3,4				
Japanese kanji	Basic 1-4					
	Inter. 1,2					
	Inter. 3,4					
Japanese seminar			3~6, 9/10	1~10	1/2, 7~10	

JAPANESE CULTURE COURSE 500Lv						
1: Strategic approach to Japanese and culture	2: Strategic approach to Japanese and culture				3/4: Multi-cultural collaboration	

Japanese culture and language 1, 2, 3, 4	(for registration only)	600Lv

https://js.ila.titech.ac.jp/~web/japanese.html

6. Entrepreneurship Courses

1) Entrepreneurship Courses

Acquire specialized skills in science and engineering and utilize your expertise to benefit society
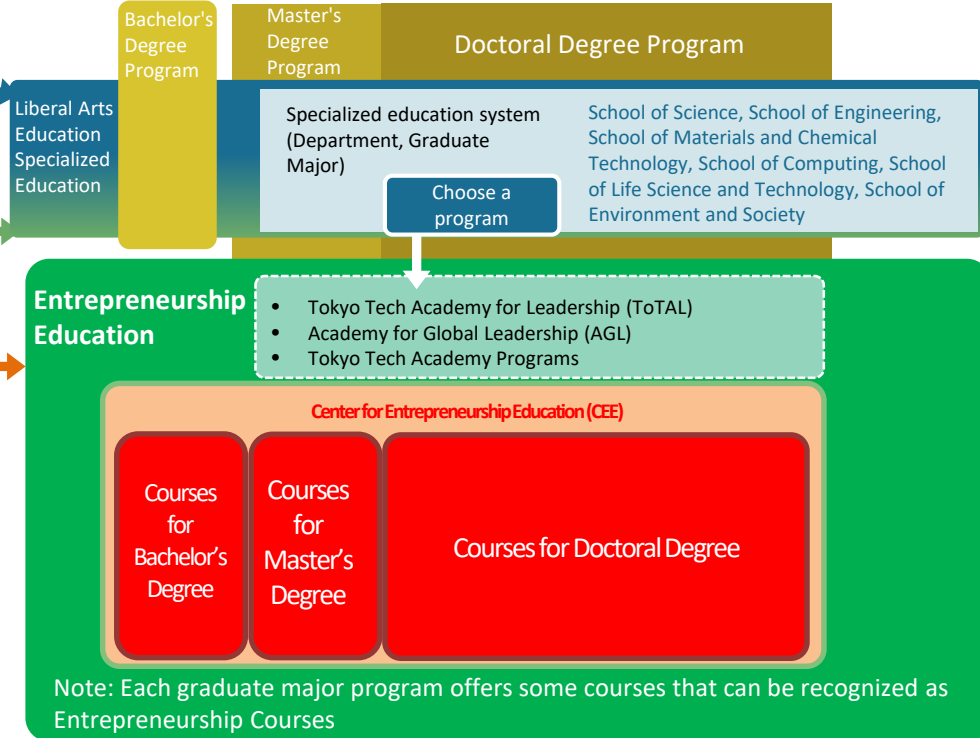
Specialized Education

What area of expertise should I pursue?

Liberal Arts Education

What am I living for?

Entrepreneruship Education

How can I make the most of myself?

In parallel with their liberal arts and specialized education, taking entrepreneurship or other equivalent courses provided by the CEE or respective Schools/Departments will enable students to:
Acquire the mindset and skills that are essential in surviving in today's world.

【**Definition of "Entrepreneurship" at Tokyo Tech**】

Bachelor's Degree Program

Master's Degree Program

Doctoral Degree Program

Liberal Arts Education
Specialized Education

Specialized education system (Department, Graduate Major)

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

Choose a program

Entrepreneurship Education
- Tokyo Tech Academy for Leadership (ToTAL)
- Academy for Global Leadership (AGL)
- Tokyo Tech Academy Programs

Center for Entrepreneurship Education (CEE)

Courses for Bachelor's Degree

Courses for Master's Degree

Courses for Doctoral Degree

Note: Each graduate major program offers some courses that can be recognized as Entrepreneurship Courses

---

In order to live in global society in the "era of VUCA" (volatility, uncertainty, complexity, and ambiguity)*, along with one's field of expertise, it is necessary to have mindset and skills to develop and create new values and then to implement them in the real world. At Tokyo Tech, 'entrepreneurship' is like a computer's operating system; a 'system of actions' is required regardless of the student's career path.

* The world of today is called the "era of VUCA", where the current society is facing complicated challenges related to globalization, environment due to the rapid development of science and technology.

Details of Mindsets and Skills to be Acquired

Through entrepreneurship education, Tokyo Tech expects students to develop the following mindsets and skills.

Foresight, Global Competencies, Leadership, Value Creation, and Career Development

Foresight

Have a clear vision of a better future for society based on scientific and technological developments

Leadership

Demonstrate leadership in building consensus among different stakeholders by recognizing hidden assumptions, respecting diversity and expressing subjective opinions based on their own values.

Global Competencies

By understanding the essence of global issues and their relationship with oneself, and through collecting, analyzing and elucidating, one should be able to make proposal for solution. Further, one shall be able to equip with collaborative skills with one(s) with different background (culture, custom, and language, etc.) based on respect and mutual understanding.

Value Creation

Based on insights into essential issues in their own area of expertise, they create new value by repeatedly proposing solutions, implementing them and verifying them from multiple perspectives.
They also increase the probability of the process, bring it to fruition in the real world and achieve it with a sense of purpose.

Career Development

Find role models as references for their future and develop their future careers.
Basic knowledge required for success in society, including industry and company analysis, organizational financial accounting, laws, standards and other regulations, entrepreneurship, ethics and SGDs.
Social skills such as self-understanding and self-presentation, communication, critical thinking, writing, problem-solving and leadership.

Entrepreneurship Education Core (Required) for Master's Students

➤ Required credits and Graduate Attributes (GAs)

- Students must attain at least two credits from the Entrepreneurship Courses provided by CEE or equivalent courses specified by their department to fulfill the requirements of their master's degree.
- Each course is assigned one of the two, both, or neither of the GAs below (GA0M, GA1M).
- Students must fulfill both of the GAs by acquiring two or more credits from these courses. For example, by taking a course that is assigned both GA0M and GA1M, the GA requirement will be fulfilled. On the other hand, by taking a course that is assigned neither of the two GAs, students will be awarded credit(s) but the GA requirement will not be fulfilled.
- For details about completion requirements, carefully read the study guide for your major.
- Each Department offers courses for working adult students. Please consult your academic supervisor if you wish to take such courses.

➤ GAs (Master's degree program)

GA0M: You can clearly plan your own career and recognize the abilities necessary for realizing it while considering ethics and relevance to societal problems.

GA1M: You can aquire the knowledge, skills, ethics, and entrepreneurship necessary for realizing your planned career and contribute to societal problem-solving while collaborating with other experts.

➤ Study plan

- You should check year-round course schedules when making your study plan. It is highly recommended you attain two credits in two years during your master's degree studies.
- There is no specific order for acquiring these GAs. Students may take GA1M courses before taking GA0M courses.
- Design your study plan from a two-year perspective, incorporating courses and research work. You do not have to rush and take many courses at the beginning of your study period.

- **Entrepreneurship Education Core (Required) for Doctoral Students**

➤ Required credits and Graduate Attributes (GAs)
- Students must attain at least four credits from the Entrepreneurship Courses provided by CEE or equivalent courses specified by their department to fulfill the requirements of their doctoral degree.
- Each course is assigned one of the two, both, or neither of the GAs below (GA0D, GA1D).
- Students must fulfill both of the GAs by acquiring four or more credits from these courses. For example, by taking a course that is assigned both GA0D and GA1D, the GA requirement will be fulfilled. On the other hand, by taking a course that is assigned neither of the two GAs, students will be awarded credit(s) but the GA requirement will not be fulfilled.
- For details about completion requirements, carefully read the study guide for your major.
- Each department offers Recurrent Program courses for students with work experience. If you are interested in taking these courses, please consult with your academic supervisor.

➤ GAs (Doctoral degree program)

GA0D: You can clearly plan your own career and contribute to realizing scientific, technological, or social innovation through a comprehensive understanding of the knowledge, skills, social responsibilities and ethnic required to become an active member of academia and/or industry.

GA1D: You can lead in realizing scientific, technological, or social innovation by acquiring the advanced leadership skills, entrepreneurship, knowledge and expertise, and by developing social responsibility necessary for materializing your designed career.

➤ Study plan

- Students are advised to take courses corresponding to GA0D in the early period of the 1st year of their doctoral studies, and those corresponding to GA1D in later quarters.
- Proposal-writing training courses are offered once a quarter (four times in an academic year) for prospective applicants to the JSPS Research Fellowship for Young Scientists (DC). If you are interested in applying for this fellowship, you should take this course.

Steps to Take Entrepreneurship Courses

(For Both Master's and Doctoral Students)

The unique course code for the entrepreneurship courses offered by CEE starts with "ENT."

1. Check completion requirements regarding entrepreneurship courses for your major.

Please see the "Guide to the Graduate Majors" section of the "Graduate School Study Guide" to check the details about completion requirements for your major.

https://www.titech.ac.jp/guide/guide_2024/graduate/

2. Check what kind of entrepreneurship courses are available

- See the "Liberal Arts and Basic Science Courses" section of the "Graduate School Study Guide" to check the entrepreneurship courses offered by CEE.
- See the "Guide to the Graduate Majors" section of the "Graduate School Study Guide" to check the entrepreneurship courses offered in your major.
- See syllabus for details of each course including content, course instructor, and schedule. Find the webpage for the course by making a "search by lecture title" on the OCW top page. (http://www.ocw.titech.ac.jp/index.php?lang=EN)

3. Decide on the courses you will take and register for them

Log into Tokyo Tech Portal, click on the "Web System for Students and Faculty" on the menu, and register in the courses you wish to take.

Inquiries (for master's and doctoral students):

Center for Entrepreneurship Education (CEE)

https://www.titech.ac.jp/english/0/students/entrepreneurship
※Top page of Tokyo Tech website→Current Students→Entrepreneurship Education
cee.info@jim.titech.ac.jp

Recording and material of the orientation sessions for newly enrolled graduate students regarding entrepreneurship courses, including the registration procedure, will be released on the site. Please visit the above CEE website for details.

2)Advanced Entrepreneurship Education (Optional)

In addition to the required Entrepreneurship Education Core, two options (as of April 2024) are also available for those who are interested in advanced learning.

➤ Global Education Option for Master's Students

Master's students who wish to specifically strengthen their global competencies in the entrepreneurship education are encouraged to take this option, which provides opportunities to study abroad and improve foreign-language communication skills. To complete the Global Education Option, you must acquire at least five credits from this option, in addition to the minimum two credits satisfying the two GAs required for the Entrepreneurship Education Core (for master's students) before completing your master's program. For more details, please visit the link below:
https://www.titech.ac.jp/english/0/students/entrepreneurship

A briefing session for the Global Education Option program will be held at 17:40 on Wednesday, April 17, 2024. Location: Room M-374 of the Main Building in Ookayama Campus

➤ Entrepreneurship Education Plus for Doctoral Students

Those who have acquired the required four credits from the Entrepreneurship Education Core (for doctoral students), and two or more credits from entrepreneurship or equivalent courses will be awarded the completion certificate of the Entrepreneurship Education Plus for Doctoral Students.
For more details, please visit the link below:
https://www.titech.ac.jp/english/0/students/entrepreneurship

7. Specially Offered Degree Programs for Graduate Students

1) Tokyo Tech Academy for Leadership (ToTAL)

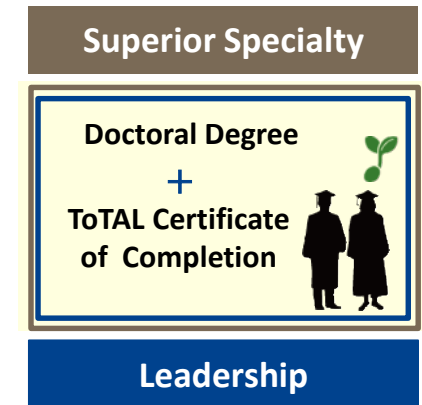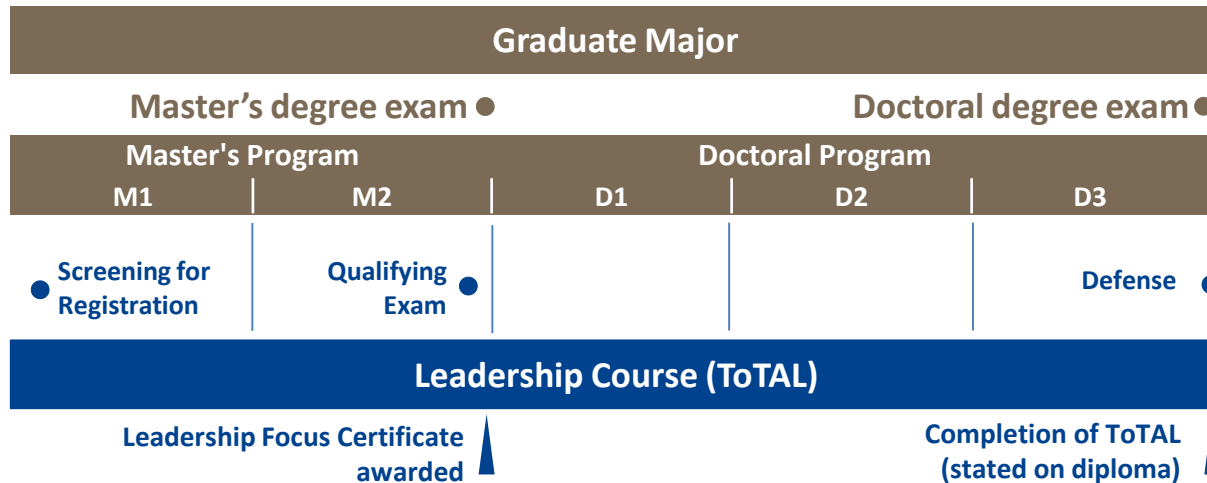**ToTAL** — Tokyo Tech Academy for Leadership

Excellence program for leadership development
Everyone has the potential for leadership.

A select group of individuals transcends academic boundaries to synergistically expand horizons and develop world-class leadership skills.

- Gain awareness of yourself in history and the world, and discover motivation from within yourself
- Accept differences between yourself and others, develop mutual respect, and work together for a better society
- Enjoy the creativity in unexpected outcomes by cultivating a spirit of curiosity and sustained endeavor

Graduate Major						Superior Specialty
Master's degree exam ●			Doctoral degree exam ●			**Doctoral Degree** **+** **ToTAL Certificate of Completion**
Master's Program		**Doctoral Program**				
M1	M2	D1	D2		D3	
Screening for Registration	Qualifying Exam				Defense	
Leadership Course (ToTAL)						Leadership

Leadership Focus Certificate awarded ▲

Completion of ToTAL (stated on diploma) ▲

※Completion of the ToTAL program will be stated on your doctoral degree diploma, if you pass the defense for both ToTAL as well as your doctoral degree program and final exam. If you do not complete your doctoral degree program, completion of the ToTAL program will not be authorized.

1. Tokyo Tech Academy for Leadership (ToTAL) Curriculum outline

At ToTAL, students will gain competencies essential for global leadership in addition to superior expertise acquired in their majors. Courses are offered in the following five subjects, which enable students to systematically proceed with their learning.

Tuition exemption and support for expenses of off-campus project (overseas or domestic) are provided to doctoral students. (Conditions apply.)

Note: 1) ToTAL admits students only until the spring semester in 2025.

2) The financial support system after AY2028 is being prepared.

You may register in ToTAL during the master's degree only. In that case, a Leadership Focus Certificate will be granted if you earn the required credits.

To enroll in the ToTAL program, students must pass the screening test (application review and interview).

Subject	Credits
01 Cultural Skills — Foster curiosity beyond your specialty, and polish personal skills to build relationships of trust.	2
02 Recognition of Social Issues — Grasp social issues and become aware of how you will use your abilities to work towards solutions.	3
03 Global Communication — Master advanced discussion competencies for diverse solutions in the real world.	3
04 Leadership, Followership, and Consensus Building — Understand the essence of leadership and followership, and foster consensus–building capability.	4
05 Off-Campus Project — Test and improve your specialized knowledge and abilities in society.	4

Tokyo Tech Academy for Leadership (ToTAL)
http://www.total.titech.ac.jp/english/

Besides the above, students must complete one out of Leadership Workshop, Introduction to Leadership, or Global Leadership Practice courses to take the ToTAL qualifying exam.

① Program objective

The TAC-MI program is a seamless degree program provided throughout graduate learning. It aims to empower students to become **multitalented individuals** capable of promoting unique, interdisciplinary research in materials and information technology. The program will enable students to connect knowledge in information and material* by using informatics techniques and multifaceted thinking, as well as by taking a broad perspective. We expect our students to take a leading role in a transdisciplinary framework involving materials, information technology, and social services.

Services

Infor-mation
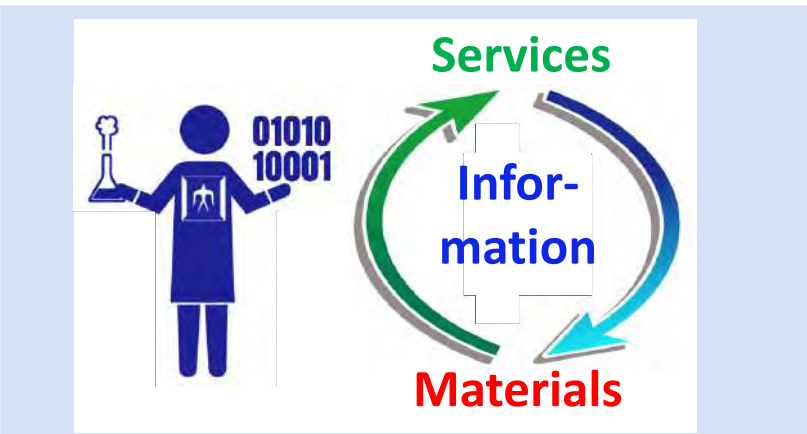
Materials

Creating **new industries** by connecting "**materials**", which is Japan's strengths, to "**services**" by utilizing **information science & technologies**.
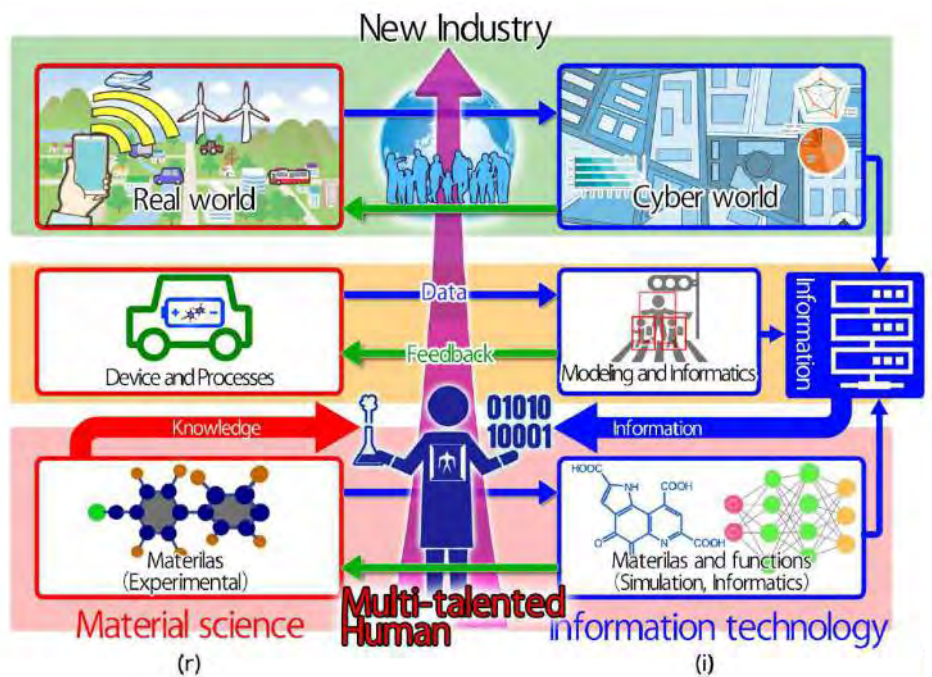
Produce leaders who create new industries as advanced professionals in materials science and informatics

② Program outline

To help students develop the four attributes (i.e., creativity, broad perspective, practical ability, and global leadership) required to become **multitalented individuals**, the academy has designed 12 educational modules:

(1) Creativity
① **Materials and Informatics lectures** with exercises
② **Laboratory rotation**
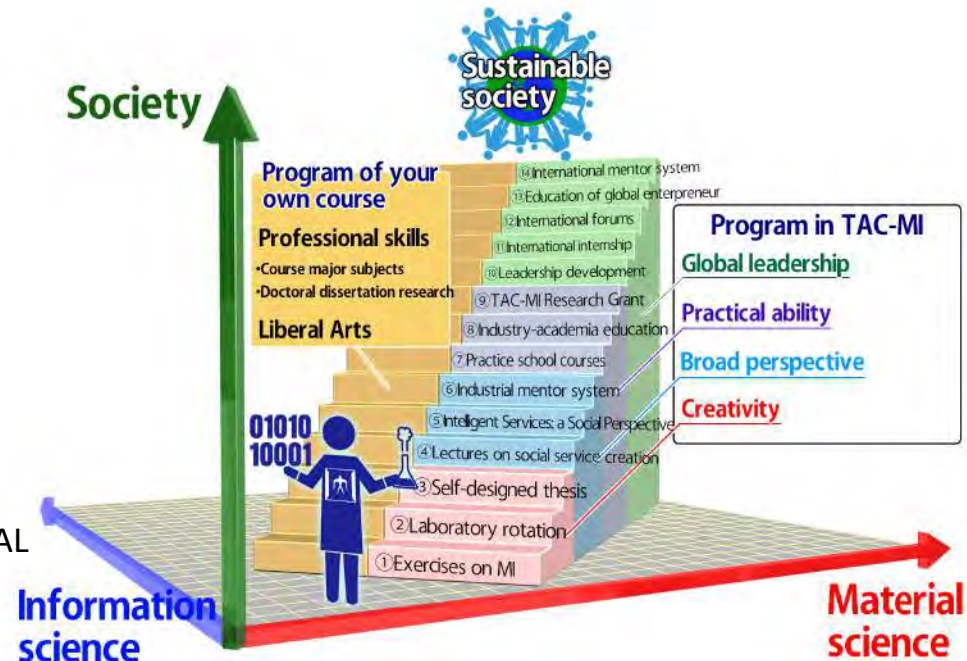③ Originality education with **self-designed thesis**

(2) Broad perspective
④ **Lectures on social service creation**
⑤ **Intelligent Services: A Social Perspective**
⑥ **Industrial mentor system**

(3) Practical ability
⑦ **Practice School** to solve companies issues
⑧ **TAC-MI Research Grant** to enhance the ability
   to find and solve problems

(4) Global leadership
⑨ **Leadership development courses** provided by ToTAL
⑩ **International internships**
⑪ **International forums** on materials and informatics
⑫ **International mentor system**

To become "**an excellent & multitalented doctor**" is the gateway to a global player.

Member companies of TAC-MI pay attention to the growth of TAC-MI students.

TAC-MI students can take advantage of **the job matching service**.

③ Support for TAC-MI Students

We also offer the **TAC-MI Scholarship and RA** that helps TAC-MI students to be financially independent and allows them to concentrate on their studies.

（1）Financial Support for TAC-MI doctoral students:

- **Up to 2,530,000 yen per year will be provided in total by TAC-MI Scholarship and Tokyo Tech Tsubame Scholarship etc.**

（2）Financial Support For JSPS DC1/DC2, MEXT Scholarship foreign students:

- **Addition to these economic support, TAC-MI will pay RA salary .**

In April 2025, a new interdisciplinary graduate major for doctoral students "Materials and Information Sciences" will be established, and will begin accepting students in April 2025.

This graduate major is a further development of the curriculum of the TAC-MI program.
We will offer the scholarship and RA salary that helps students enrolled in this graduate major to be financially independent and allows them to concentrate on their studies.
Details will be explained at the Briefing Session.
If you are interested in this graduate major, please participate in the briefing session.
For more information about briefings sessions, please visit our website.

https://www.tac-mi.titech.ac.jp/en/event/2024sp-gmbriefing/

＊The enrollment examination for the TAC-MI program ended in AY2023.

3) WISE for Super Smart Society

Skill ＝（Cyber Tech. ＋Physical Tech.）× Quantum Science

| Quantum Sensors | →5G/IoT→ | Quantum Comp. AI | →5G/IoT→ | City/Society Robots |

Make core skills rooted in quantum science and artificial intelligence available to all academics

Encourage original research spanning the domains of physical and cyber space

Enhance the big picture from quantum science to Super Smart Society
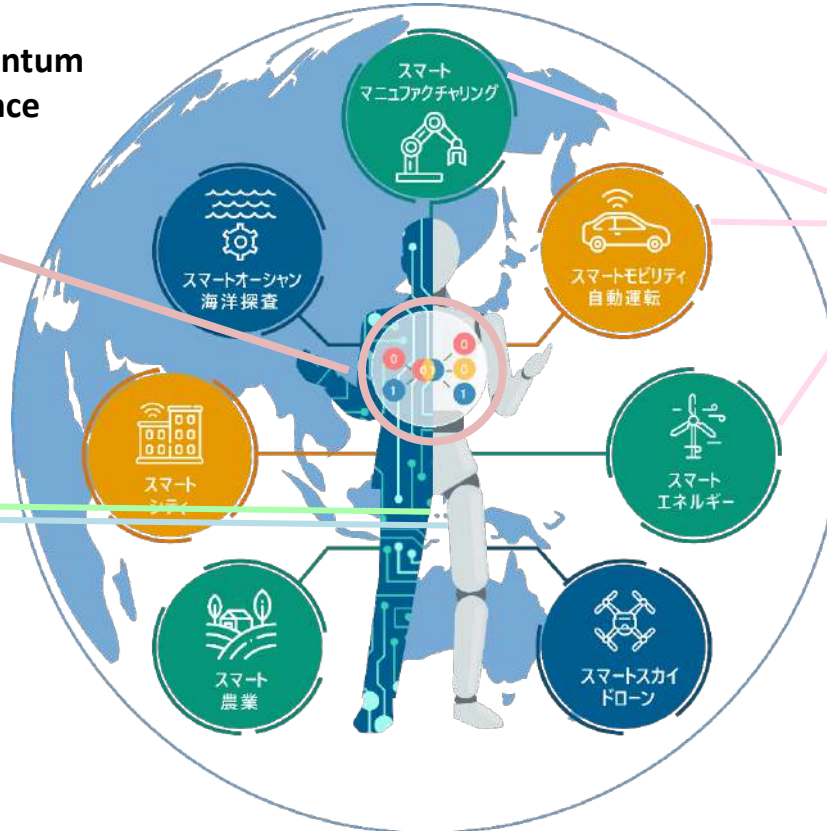
Innovate interdisciplinary research to create Super Smart Society

Promote a talented and seamless leadership between academia, government, and industry

SSS Official Channel

https://www.youtube.com/channel/UCB6xyVu1TNB8xPSMt3v9VPQ

Education that combines social collaboration (open education) and interdisciplinary research (open innovation)

SSS Interdisciplinary Matching Workshop

By exchanging opinions with people from companies and national research institutes, new perspectives and ideas can be gained and has also led to joint research.
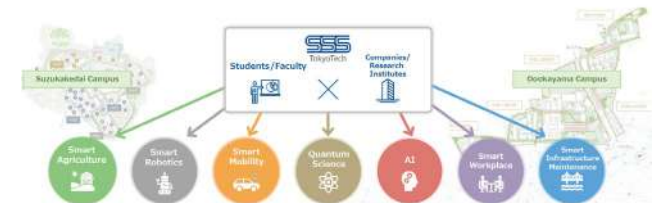

Super Smart Society Promotion Consortium partners

Intensive practice for interdisciplinary research planning

Providing opportunities to build interdisciplinary research through exercises using the Education and Research Field for a Super-smart Society, which brings together cutting-edge science and technology.

Voices from Graduates

"Gaining an opportunity as a researcher through WISE-SSS"

After I joined the SSS Matching Workshop in November 2019, collaborative research with DENSO was realized. The research theme was V2I (Vehicle to Infrastructure), and we worked for two years from April 2020 on the subject of how to connect the automobile and infrastructure by means of communication. As a result of such research being recognized, I was hired by the Sony Group to start working from this April 2022.

Dr. Yin Yue (School of Engineering, Sakaguchi Lab)

"Clear a path for the future with the global off-campus research project"

After completing a study-abroad program that started in September 2022 at the University of Wisconsin-Madison, as part of the WISE-SSS global off-campus research project, I have been continuing my research at the University as a postdoctoral researcher, which was my initial plan. I wish to further my research and enhance my international communication and leadership abilities.

Dr. Takahiro Noguchi (School of Engineering, Chiba Lab)

Financial aid programs are available to help students become financially independent and create an environment in which they can concentrate on their studies. For details, please visit the website of Tokyo Tech Academy for Super Smart Society:
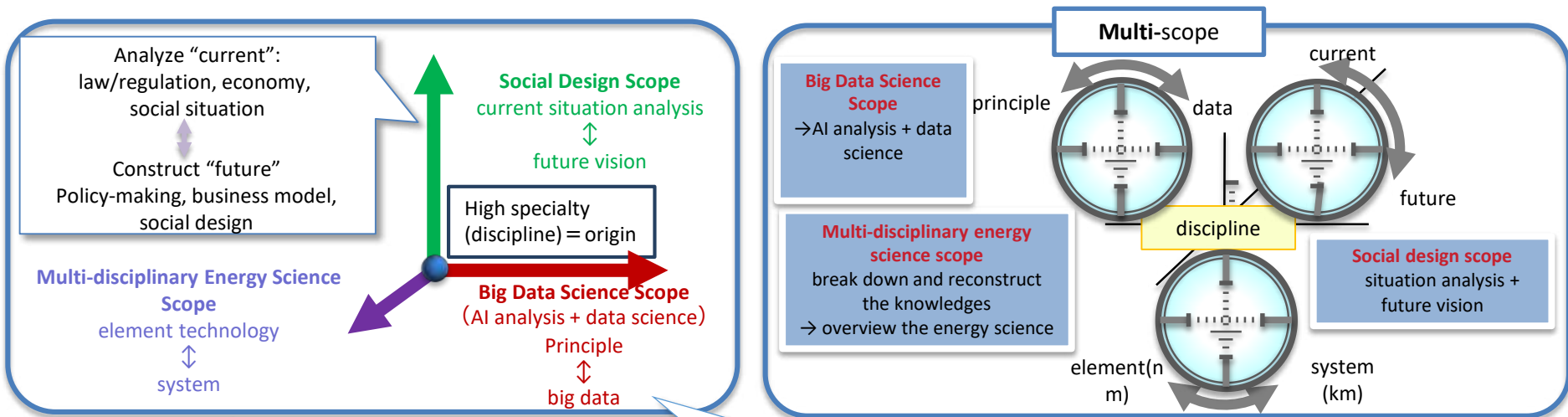**https://www.wise-sss.titech.ac.jp/en/admissions/support/**
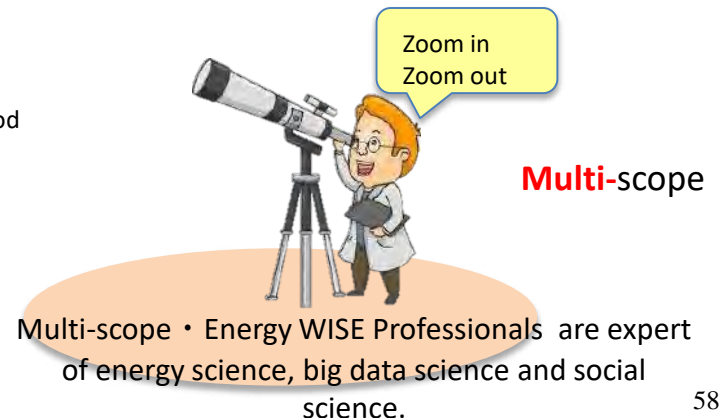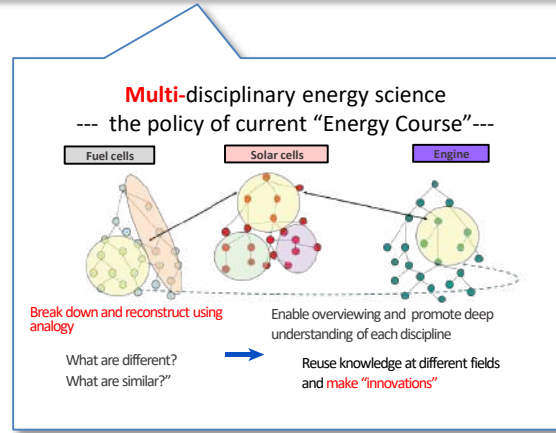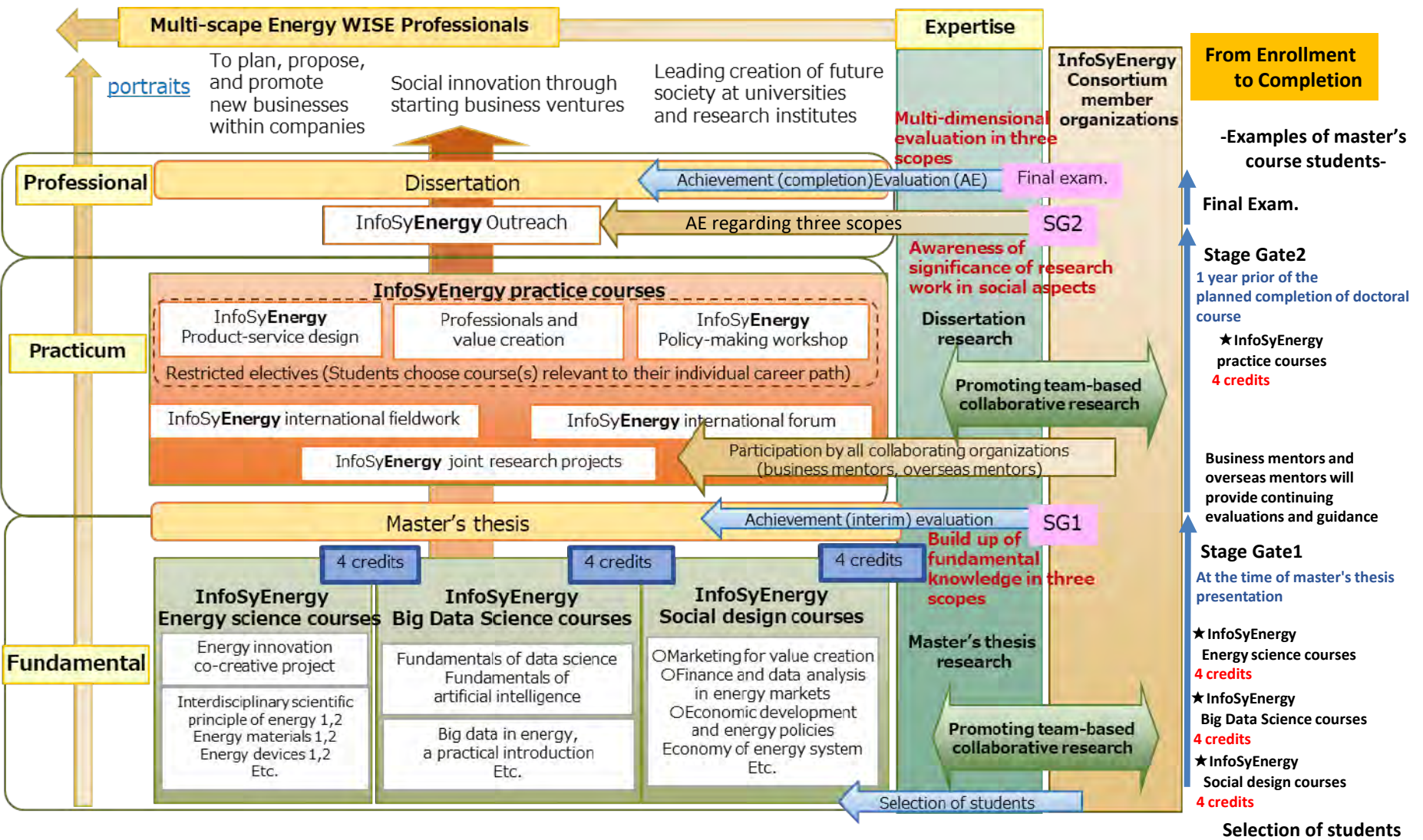
"Multi-scope・Energy WISE Professionals"

"Professionals" of "Multi-disciplinary energy science" who can design a new sustainable energy society with mastering "big data science" and "social design"

Analyze "current":
law/regulation, economy, social situation

Construct "future"
Policy-making, business model, social design

Social Design Scope
current situation analysis
↕
future vision

High specialty
(discipline) = origin

Multi-disciplinary Energy Science Scope
element technology
↕
system

Big Data Science Scope
（AI analysis + data science）
Principle
↕
big data

Multi-scope

Big Data Science Scope
→AI analysis + data science

principle   data

Multi-disciplinary energy science scope
break down and reconstruct the knowledges
→ overview the energy science

discipline

current

future

Social design scope
situation analysis + future vision

element(nm)   system (km)

Multi-disciplinary energy science
--- the policy of current "Energy Course"---

Fuel cells   Solar cells   Engine

Break down and reconstruct using analogy

What are different?
What are similar?"

Enable overviewing and promote deep understanding of each discipline

Reuse knowledge at different fields and make "innovations"

➢ Principles extracted from the trends by big data analysis

➢ Trends in the big data understood by principles

Zoom in
Zoom out

Multi-scope

Tokyo Tech Academy of Energy and Informatics

Multi-scope・Energy WISE Professionals are expert of energy science, big data science and social science.

58

Multi-scape Energy WISE Professionals

Expertise

InfoSyEnergy Consortium member organizations

From Enrollment to Completion

-Examples of master's course students-

Final Exam.

Stage Gate2
1 year prior of the planned completion of doctoral course

★ InfoSyEnergy practice courses
4 credits

Business mentors and overseas mentors will provide continuing evaluations and guidance

Stage Gate1
At the time of master's thesis presentation

★ InfoSyEnergy Energy science courses
4 credits
★ InfoSyEnergy Big Data Science courses
4 credits
★ InfoSyEnergy Social design courses
4 credits

Selection of students

portraits

To plan, propose, and promote new businesses within companies

Social innovation through starting business ventures

Leading creation of future society at universities and research institutes

Multi-dimensional evaluation in three scopes

Professional

Dissertation

Achievement (completion)Evaluation (AE)

Final exam.

InfoSyEnergy Outreach

AE regarding three scopes

SG2

Awareness of significance of research work in social aspects

Practicum

InfoSyEnergy practice courses

InfoSyEnergy Product-service design

Professionals and value creation

InfoSyEnergy Policy-making workshop

Restricted electives (Students choose course(s) relevant to their individual career path)

InfoSyEnergy international fieldwork

InfoSyEnergy international forum

InfoSyEnergy joint research projects

Participation by all collaborating organizations (business mentors, overseas mentors)

Dissertation research

Promoting team-based collaborative research

Master's thesis

Achievement (interim) evaluation

SG1

Build up of fundamental knowledge in three scopes

4 credits   4 credits   4 credits

Fundamental

InfoSyEnergy Energy science courses

Energy innovation co-creative project

Interdisciplinary scientific principle of energy 1,2
Energy materials 1,2
Energy devices 1,2
Etc.

InfoSyEnergy Big Data Science courses

Fundamentals of data science
Fundamentals of artificial intelligence

Big data in energy, a practical introduction
Etc.

InfoSyEnergy Social design courses

○Marketing for value creation
○Finance and data analysis in energy markets
○Economic development and energy policies
Economy of energy system
Etc.

Master's thesis research

Promoting team-based collaborative research

Selection of students

Tokyo Tech Academy of Energy and Informatics

59

③ Financial Support for ISE Program Students & Selection of Students

➤ Financial Support for Students Enrolled in the ISE Program

- Provide support (grant) of up to 1.85 million yen per year to doctoral degree students who are recognized as having high research ability and potential. The maximum amount the student can receive totals 2.53 million yen/year, including the Tsubame scholarship (40,000 yen/month) and remuneration for RA work under academic supervisors (200,000 yen/year).
- Support students' research participation and financial support in joint research with companies promoted by the "Tokyo Tech InfoSyEnergy Research and Education Consortium".
- Provide partial travel support for expenses on InfoSyEnergy International Field Work and InfoSyEnergy Joint Research Project
- Provide InfoSyEnergy Collaborative Research Incentive Grant Program
- Provide financial support for the cost of attending InfoSyEnergy International Forum such as travel expenses.

➤ Selection of Students

Target students are those who can take 2nd stage selection of "Energy Innovation Co-creative Project course" in 3-4Q during Master's and Professional Master's Program. Please check our website for selection schedule.

Master's students who wish to enter the ISE program must pass (1) the initial screening where "candidates" are selected and (2) the final screening conducted at the Energy Innovation Co-creative Project course in Q3-Q4. ISE selects candidates twice a year, for the spring and fall semesters. Check the program website regularly for details.

Tokyo Tech Academy of Energy and Informatics

Briefing Sessions

1. Tokyo Tech Academy for Leadership program

ToTAL admits students twice a year, in the spring and fall semesters. For enrollment from AY2024 spring semester, attend one of the scheduled sessions on Monday, April 15 and Tuesday, April 16. Details on the program and how to enroll will be explained.

Check the ToTAL website for more information.

Email: total.jim@total.titech.ac.jp

https://www.total.titech.ac.jp/en/briefing/

2. Graduate major in Materials and Information Sciences

Briefing Session will be held on Wednesday, April 17.

Master's students who plan to enter doctoral program after April 2025 are eligible.

For more information on how to enroll in the Graduate major Materials and Information Sciences, check the website.

Email: tac-mi@jim.titech.ac.jp

https://www.tac-mi.titech.ac.jp/en

Briefing Sessions

3. Tokyo Tech Academy for Super Smart Society (WISE-SSS) program

WISE-SSS admits students twice a year, for the spring and fall semesters. The admissions information session for the AY 2024 fall semester is scheduled to be held on Wednesday, April 24. Attend a session and gather information on how to enroll in the Academy.

Check the website for more information.

E-mail: wise-sss@jim.titech.ac.jp

https://www.wise-sss.titech.ac.jp/en

4. Tokyo Tech Academy of Energy and Informatics (ISE) program

ISE selects "candidate students" twice a year, for the spring and fall semesters. Students who pass the initial screening become candidates and proceed to the final screening where decisions are made on students to be officially accepted to the ISE program. Watch an online video of the briefing session to learn about the selection process, and participate in a "Q & A session" scheduled to be held on April 23, 2024 for further understanding. Pre-registration is required.

Please visit our website for more information.

https://www.infosyenergy.titech.ac.jp/Academy/en
E-mail : management_office@infosyenergy.titech.ac.jp

8. Graduate Minor and Progressive Graduate Minor Program

DS & AI Program

1) Graduate and Progressive Graduate Minors

By choosing to study either a graduate minor or progressive graduate minor, students can systematically acquire knowledge of an additional discipline on top of their major.

Example of a graduate minor

Graduate Major — Mechanical Engineering (Graduate degree in engineering)

Graduate Minor — Materials Science and Engineering

Example of a progressive graduate minor

Graduate Major — Mathematics (Graduate degree in science)

Progressive Graduate Minor — Mathematical Finance

Industrial Engineering and Economics Graduate Major, School of Engineering

Mathematics Graduate Major, School of Science

Mathematical and Computing Science Graduate Major, School of Computing

For the Mathematical Finance Graduate Major, the Department of Mathematics provides courses specifically designed for Mathematical Finance in addition to courses in Mathematics (i.e., courses for the Mathematics Graduate Major).

1)University-Wide Education Program in Data Science and Artificial Intelligence

In today's fast-paced digital transformation (DX) world, data science and AI constitute indispensable knowledge and technologies in diverse areas such as social dynamics, industry, and R&D.

The Institute is a comprehensive university of science, engineering, and technology, and provides a **University-Wide Education Program** that aims to cultivate **"co-creative experts"** who can (1) make full use of DS & AI, (2) interact with DS & AI, and (3) teach DS & AI, **regardless of the specialty of the School** they belong to.

Registration for Expert Level and Expert Level Plus requires an application. If you wish to become a **"co-creative expert"** in developing value for society with DS & AI, please join us using the URL below.

https://www.dsai.titech.ac.jp/program/

Expert Level course structure

Fundamentals Courses		Applied and Practical Courses
Fundamentals of (Progressive) DS Fundamentals of (Progressive) AI	1 credit	(Progressive) Applied and Practical DS and AI I - III
Exercises in Fundamentals of (Progressive) DS Exercises in Fundamentals of (Progressive) AI	1 credit	1 credit

- Acquire 2 credits from any of the Fundamentals of (Progressive) DS/AI lecture-based courses, and 2 credits from either: any of the Exercises in Fundamentals of (Progressive) DS/AI courses or the (Progressive) Applied and Practical Courses
- In the fundamental courses, students learn the theoretical foundations of DS & AI, and in the applied and practical courses, they learn to solve social issues using DS & AI technology through collaboration with 40 companies.

Students will receive an open badge upon completion of the program

Expert Level Plus course structure

(Progressive) Advanced DS and AI I — 1 credit

In addition to the knowledge acquired in the fundamental AI courses, students will experience in-depth learning on advanced and latest AI theories and technologies.

(Progressive) Advanced DS and AI II — 1 credit

The course will cover a wide range of important DS theories and techniques that are not included in the fundamental DS courses.

(Progressive) Advanced DS and AI III — 1 credit

Learn about legal, ethical, and social issues that leaders playing active roles in the DS and AI fields need to address, as well as the techniques for solving those issues.

- Starts in April 2024
- Acquire 3 credits in advanced courses
- Focused on both theory and ethics

Students will receive an open badge upon completion of the program

Center of Data Science and Artificial Intelligence
https://www.dsai.titech.ac.jp/

9. Financial Support

1) Financial Support

1. Teaching and research assistantships

http://www.jinjika.jim.titech.ac.jp/syoku/index.html

A Research Assistant (RA) is a student employed to assist with research work (e.g., experiments).
A Teaching Assistant (TA) is a student employed to assist with education or coursework (e.g., class preparation and support).
Note: RAs and TAs can receive hourly wages from Tokyo Tech. However, there is a maximum number of working hours.

2. Deferred payment of or exemptions from admission and tuition fees

https://www.titech.ac.jp/english/student-support/students/tuition/exemptions

Program	Admission fee	Tuition fee per semester	Tuition fee per year
Master's degree program Doctoral degree program	282,000 yen	317,700 yen	635,400 yen

Admission fee: Students may apply for an exemption for half the admission fee amount or deferment of the payment, if either of the following conditions is met.

1. Those recognized as excelling at their studies but who are in financial difficulty and cannot make payments. (There are no admission fees for advancing to a doctoral degree program from a master's program at Tokyo Tech.)

2. Students who have difficulty making payments due to the loss, one year before or after enrollment, of the financial supporters who were expected to pay for their university education; or students or their financial supporters who became victims of a natural disaster one year before or after enrollment.

Tuition fee: Students may apply for an exemption from all or half of the tuition fee or deferment of the payment. To be eligible, students must meet one of the conditions listed above.

For details, visit the Tokyo Tech website.

67

● **Financial Support**

3. Scholarships

(1) Privately funded scholarships for international students

https://www.titech.ac.jp/english/students/tuition/scholarships

More scholarships are available from private foundations and other organizations.

(2) Tokyo Tech Tsubame Scholarship for Doctoral Students

https://www.titech.ac.jp/english/student-support/students/tuition/tsubame-scholarship

Available to doctoral students (as of 2024)
Note: Eligibility restrictions apply
Scholarship amount: ¥480,000 per year (for the second year and after, ¥480,000 or ¥635,400 per year)
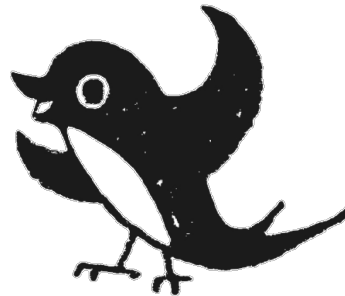
For details, visit the Tokyo Tech website.

2) Japan Society for the Promotion of Science (JSPS)
Research Fellowship for Young Scientists

Program overview

The JSPS Research Fellowship for Young Scientists (DC) is a program to appoint doctoral students who possess outstanding research skills and wish to dedicate themselves to research at a university or other research organization as research fellows. It includes a ¥200,000 monthly research stipend.
In addition, fellows can, in principle, receive an annual research fund of up to 4.5 million yen, in accordance with research plans attached to the application documents. The average acceptance rate for the program was around 20 to 25 percent over the last 3 years.

Eligibility: Students enrolled in doctoral degree programs (includes those who plan
to be) as of April 1 of the year of appointment are eligible to apply.
Application period: From around March to June of the year before that of appointment
Note: Applications for fellowship appointments beginning on April 1, 2025 will open in mid-February 2024.

Fellowship categories

DC1

Applicants must be equivalent to a first-year doctoral student (with less than 12 months in the doctoral program) at the beginning of the fellowship*

DC2

Applicants must be equivalent to a second-year doctoral student or higher (with a minimum of 12 months and less than 36 months in the doctoral program) at the beginning of the fellowship*

(*April 1, 2025 for the AY 2025 fellowship)

Screening is performed for each category. (DC1 or DC2)
Appointment period: Three years for DC1, two years for DC2

There is no difference in research stipend amounts.

● Research Stipends and Grant-in-Aid for JSPS Research Fellows (DC)

Research stipends

Research stipends that JSPS Research Fellows can receive are similar to a monthly salary. DC1 and DC2 fellows can use a stipend of ¥200,000 per month at their discretion.

Grant-in-Aid for JSPS Research Fellows

DC1 and DC2 are eligible to apply for Grants-in-Aid for Scientific Research (KAKENHI) for JSPS fellows. They can receive up to 4.5 million yen in research expenses per academic year during their fellowships.
These funds can only be used to conduct research because subsidies are for research purposes. Everyone chosen as a JSPS Research Fellow can receive this, but the benefit amounts are determined via screening the research plan documents submitted with the application.

There are restrictions for receiving the payment. Research fellows must carefully check the compliance requirements in advance. Receiving payment from work as RAs or TAs or other such benefits is possible in some cases. Scholarships that include government funding, such as the Japan Student Services Organization, National Scholarships, and Tokyo Tech Tsubame Scholarship, cannot be received.

- **Career Paths of JSPS Research Fellows (DC)**

Career paths after the DC fellowship position

Survey results of post-fellowship career are available on the JSPS website.

https://www.jsps.go.jp/english/index.html

JSPS survey excerpted results (as of April 1, 2022)
According to a survey taken five years after JSPS DC fellowships had ended, 68.4 percent of the respondents were engaged in full-time research work and are playing a central role in training and securing Japanese researchers.

● Application Schedule for JSPS Research Fellowship (DC)

We are currently accepting applications for the 2025 fellowship.

Early February 2024 JSPS releases application guidelines

Mid-April 2024 JSPS begins accepting applications through its e-application system

Early June 2024   **Deadline for applications**

October 2024   **First selection results come out**

    (Those informally accepted, those selected for the second examination, and those not accepted)

    Only those selected can take the seconds examination

January 2025   **Second selection results come out**

(those informally accepted, those wait-listed, and those not accepted)

February 2025   **Waiting list results announced**

April 1, 2025   **Fellowships begin**

・ Tokyo Tech holds its annual briefing (planned to be held via Zoom) in early March for prospective applicants. Please check the websites shown on the next slide as well as emails from
j-fellow@jim.titech.ac.jp for details.
・ Copies of application documents of past fellowship winners are offered for viewing (duplicating the copies is prohibited), which can greatly help you prepare your application. If you wish to view the copies, which may take about 30 minutes, contact us and provide the date and time you wish to have an appointment.

● **Related Links**

Tokyo Tech JSPS Research Fellowship for Young Scientists

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

JSPS Research Fellowship for Young Scientists

https://www.jsps.go.jp/english/e-pd/index.html

Administration Bureau Building 3

Inquiries:

Research Fund Promotion Group, Research Fund Support Division, Research Promotion Department, Tokyo Institute of Technology

Office: Administration Bureau Bldg. 3, Floor 2

 Go straight from the main gate toward the 7-Eleven on Ookayama campus. This building is on your left next to the Inspection (*kensyu*) Center.

Email: j-fellow@jim.titech.ac.jp

Tel: 03-5734-3806 (extensions 3806 and 7221)

10. Study Abroad and Learning Foreign Languages

1) Study Abroad

● Study Abroad Information Center

At the Study Abroad Information Center (located on the B1 level of Taki Plaza,) students can view materials regarding studying abroad. We also provide information on study abroad programs, study abroad scholarships, etc. that are accepting applications.

➢ Take advantage of an individual consultation with the Study Abroad Support Service.

Staff members are engaged in study abroad programs and will give you necessary support based on their extensive overseas experience. They are ready to answer questions such as:
- How can I get started studying abroad?
- How can I choose the program that best suits my career from the various options?

➢ Make an appointment

You can choose the type of session; face-to-face, Zoom, or email consultation.

Make an appointment for a session by using the form on the Tokyo Tech webpage or the Study Abroad Information and Consultation Service webpage.

https://www.titech.ac.jp/english/international-student-exchange/students/abroad/information-consultation

Study Abroad Fair

We provide the latest information on studying abroad for Tokyo Tech students at the annual Study Abroad Fair and our regular study abroad roundtable discussions. These original Tokyo Tech events cover everything from international education at Tokyo Tech to recruitment information for each study abroad program. We hope to see you there, whether you're vaguely interested in studying abroad or seriously considering it! Please check the latest information using this QR code.

https://www.titech.ac.jp/english/international-student-exchange/students/abroad/events

2) Learning Foreign Languages

➢ Foreign Language Advisory Center   https://www.fl.ila.titech.ac.jp/advisory_e.html
You can ask for advice on how to improve language skills to prepare for study abroad, to get a higher evaluation in foreign language courses, or to achieve other objectives related to language learning. Services are available in English, German, French, Chinese, Russian, and Spanish.

      Opening hours: Please check the website
    Full-time faculty members of the Foreign Languages Section of the Institute
     for Liberal Arts are waiting for you to join.

➢ Open English Office Hours   https://www.fl.ila.titech.ac.jp/office_e.html
Open English Office Hours is a chance to meet one-on-one or in small groups with a specialist in English education from the U.K., U.S., and/or Canada.
The English instructor will assist you with your personal English-language needs.
You may use the Office Hours to improve your listening and speaking skills.
Please check the website for details.

➢ A Guide to the Foreign Language Resource Room   https://www.fl.ila.titech.ac.jp/resource_e.html
The library provides access to a range of materials for language learning (English, German, French, Chinese, Russian, Spanish, etc.).

      Location: West Bldg. 3, Floor 7, Rm 701
      Opening hours: Please check the website
      Students may borrow up to two books at a time for a period of two weeks.

Due to the influence of the new coronavirus, the schedule and contents may change. Please check the latest information.

3) Nihongo Space

We provide an opportunity to meet the various
needs of students including advice on learning
Japanese, free conversation, correcting your writing.

Venue:	Day and time:
Ookayama Campus: International Student Lounge at West Bldg.1	Every Wed. and Thu. (12:40-14:00)
Suzukakedai Campus: G1-116	Details to be posted on our webpage below

- **Conversation practice**

You can practice Japanese conversation with Tokyo Tech students.

- **Personal tutoring**

You can ask Japanese language teachers to review your writing. You can also ask for advice on how to learn Japanese.

You can find more details on the Japanese Section's website:

https://js.ila.titech.ac.jp/~web/nspace.html

11. To further enrich your Tokyo Tech grad life

1) Support Systems and Counseling Services

Student Support Center

Introducing incoming students to academic life through orientation sessions and support services

Student Life Coaches

One-on-one academic consultation and guidance by faculty members to bolster students' progress

Supporting student-led initiatives and projects (e.g.、Student Survey、peer support services)

Student Initiative Support Service

Academic Advisors

Drop-in advice sessions offered by faculty or Teaching Assistants (TAs)

Providing support and guidance for Entrepreneurship and job hunting

Career Advisors

Study Advice Sessions、TAs、and Tutors

Enhancing international exchanges as well as supporting international students

International Student Support Desk

Student Success Support Section

Facilitating mutual learning – TAs and Graduate Student Assistants fellow gain professional development while assisting students' progress

Center for Innovative Teaching and Learning

Student Guidance and Accessibility Section

Counselling offered by current and former faculty on any topic or issue of concern to students

Student Guidance Room and Telephone Consultation Services

Health Support Center

Coordinating support and services for students with challenges to enhance their educational experience

Student Accessibility Services

Supporting the physical and mental well-being of students to help them make the most of their university life

●Improving and optimizing the learning environment: Learning portfolio system、Tokyo Tech OCW/T2SCHOLA、MOOC (SPOC)、libraries、active learning classrooms、Tokyo Tech Lecture Theatre、etc.

Sometimes you might feel alone when facing problems. Consulting with others could help you find solutions. Tokyo Tech provides counseling services depending on the type of issue.

Find more information on the following Tokyo Tech webpage.

Please access the page from this QR code.

2) Libraries

➢ When starting in-depth research at Tokyo Tech, graduate students are encouraged to visit the library website to effectively utilize the vast amount of resources there. It is also an opportunity for those who have graduated from Tokyo Tech to revisit and reuse the familiar facility.

https://www.libra.titech.ac.jp/en

➢ The Ookayama Library has Group Study Room available for group activities such as group projects and mock presentations.

The Suzukakedai Library includes individual study booths and small, quiet rooms suitable for online meetings.

https://www.libra.titech.ac.jp/en/guide/members/group_study

https://www.libra.titech.ac.jp/en/guide/members/seminar_room

➤ Lectures & Seminars

There are seminars on how to use the database.

Note: You can watch on the website parts of online seminars

held in the past.

https://www.libra.titech.ac.jp/en/seminars

➤ Electronic Resources

Tokyo Tech provides access to e-resources (databases, e-books, e-journals, etc.). Students can access the e-resources from outside the campus using an SSL-VPN.
https://www.libra.titech.ac.jp/en/guide/members/electronic

➤ If you have any questions regarding finding documents or other matters, please fill out the form below.

https://request.libra.titech.ac.jp/cgibin/request/ask/ask.cgi?ulang=eng

3) Liberal Arts Library

➢ The library's collection of around 27,000 volumes includes invaluable books and materials related to the humanities, works by Institute for Liberal Arts faculty, recent novels, and dictionaries. Except for certain materials, these can be viewed in the library or borrowed.

➢ The library boasts a collection of around 600 DVDs and Blu-ray versions of classic films of various genres from Japan and overseas, which can also be viewed in the library or borrowed in some cases.

➢ Soft drinks can be brought in, and internet (campus wireless LAN) is available. We encourage you to use the library to increase your knowledge and aid your studies.

➢ Location: West Bldg. 9 (E), Floor 1, Rm 114

➢ Hours of operation:

10:30-17:00   Monday to Friday

(excluding national holidays and year-end/New Year holidays.)

URL：http://libra.ila.titech.ac.jp/custom1.html

X (formerlyTwitter)
@TokyoTechILALib

4) TOKYO TECH MUSEUM and ARCHIVES

← MUSEUM (Centennial Hall)

Shinohara's world famous architecture!

2nd Floor：History of Tokyo Tech
　　　　　　Electrical Optical Communication
　　　　　　Kazuo Shinohara

1st Floor：Free open space and campus shop

Basement Floor： Exhibition from living national
　　　　　　　　treasure to Nobel prize

➢ MUSEUM　Want to know history of Tokyo Tech and historical achievements！
　Place：Centennial Hall（Just adjsent the Ookayama Main Gate）
　Open Hours： Mon.- Fri. 10:30 - 16:30 (excluding holidays)　　Free Admission

➢ Archives and Public Record Office　Want to see materials related to Tokyo Tech and history of industrial education!

　Place：G5 Building, 7th Floor（Suzukakedai Campus）
　For more information visit URL:　http://www.cent.titech.ac.jp/pg1166.html

5) TSUBAME Computing Services

➤ TSUBAME is a cluster-type supercomputer operated by the Global Scientific Information and Computing Center since 2006.

➤ TSUBAME 4.0, which will be fully operational in April 2024, will likely achieve approximately 5.5 times more accelerated computing performance than its predecessor TSUBAME 3.0 (matrix operation at 64-bit double precision). Its capability is expected to be utilized by faculty and students at Tokyo Tech, as well as universities, research institutions and corporations across Japan in various fields including manufacturing, disaster prevention, medicine and artificial intelligence.

    https://www.gsic.titech.ac.jp/en/tsubame

86
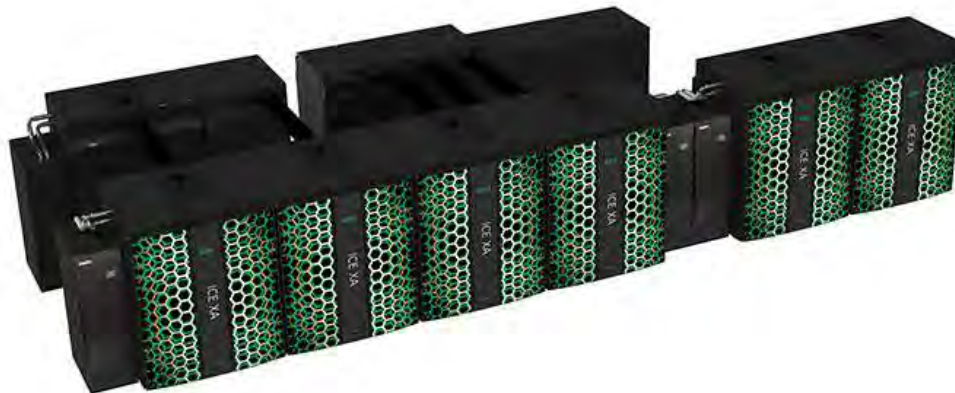
6) Online Education：MOOC
(Massive Open Online Course)

➢ MOOCs are open to anyone with internet access. Over 19,400 courses are offered by more than 950 universities around the world.

➢ A number of courses are provided in English (including those with English subtitles).

    ➢ Tokyo Tech offers access to 17 MOOCs, including the course by Professor Emeritus Yoshinori Ohsumi. Many graduate students are involved in the development of MOOCs as paid assistants (TA, GSA (Graduate Student Assistants)).

For details, visit the Online Education Development website.

http://www.oedo.citl.titech.ac.jp/

7） **Entrepreneurship Development Programs/ Entrepreneurship support**

➢ Entrepreneurship Development Programs

Various courses and events are provided to meet the needs of participants — one may wish to gain the entrepreneurship mindset in order to progress to the next level, another may look to experience social implementation of new values through practical courses. Also suitable for those who already have a clear idea of what they want to accomplish and are aiming to start a social/commercial business.

https://www.titech.ac.jp/0/students/entrepreneurship

➢ For Aspiring Entrepreneurs

A variety of support services are offered for students interested in entrepreneurship. For detailed information on the support available, please visit the Student Support site of the Innovation Design Platform. You'll find practical resources ranging from funding support programs to entrepreneurial support spaces, event information, and guidelines on entrepreneurial procedures, including commonly overlooked considerations.

Entrepreneurial Support Programs and Spaces for Students

■ "Go Startup" - Entrepreneurship Consultation Room

This is a consultation service designed to assist students interested in entrepreneurship through advice and coaching, helping to guide them towards launching their own startups. Feel free to make use of this resource.

■ "STARTech" Hands-on Entrepreneurial Workshop

A practical workshop for students eager to dive into entrepreneurship. Through discussions with veteran entrepreneurs and lectures on startup businesses, you'll refine your business plan.

■ 8th Tokyo Tech Startup Challenge 2024

This program is designed to support students aspiring to become entrepreneurs by validating their ideas and business models, and helping them make an impact on a global scale. The maximum support amount is 1 million yen. We look forward to receiving compelling proposals from motivated students.

■ Tokyo Tech Startup STUDIO

This program is designed for students who wish to use their curiosity in science and technology to make a difference in society. Working alongside experts and researchers from various fields, participants will identify societal challenges and devise solutions, aiming to establish companies that could become unicorns.

Incubation Studio 「INDEST」

A hub for students, faculty, and startups engaged in entrepreneurial activities

A three-floor space offering
shared coworking areas, dedicated desks,
semi-private and private offices.
Business registration is also possible.
A variety of workshops and events offered
every month!

①Event　②Facilities　③Moving-in

JR Tamachi St., 1 minute on foot

8) Student Support Services by Alumni Associations

➢ Tokyo Tech Alumni Associations(Kuramae-Kogyokai)

・ Supporting student-led exchange activities
  Involving Tokyo Tech students in the publication of alumni journals (Kuramae Journals).

・ Providing seminars on Entrepreneurship at the Ookayama and Suzukakedai Campuses

・ Raising money for the Tokyo Tech Fund and to support students

・ Providing Entrepreneurship support (Kuramae advisors)

・ Student Life Coaches

➢ Departmental Alumni Associations

・ There are 18 department alumni associations in addition to those belonging to laboratories and student clubs, providing student support.

➢ Lab Alumni Associations

➢ Circle Alumni Associations

9) Taki Plaza—Where Students Can Connect

Unveiled in November 2020!
Get involved in many activities offered at this new student exchange facility situated in front of the library at Ookayama Campus!

Design Concept: "A space where international and Japanese students connect, deepen ties, and create the future together."
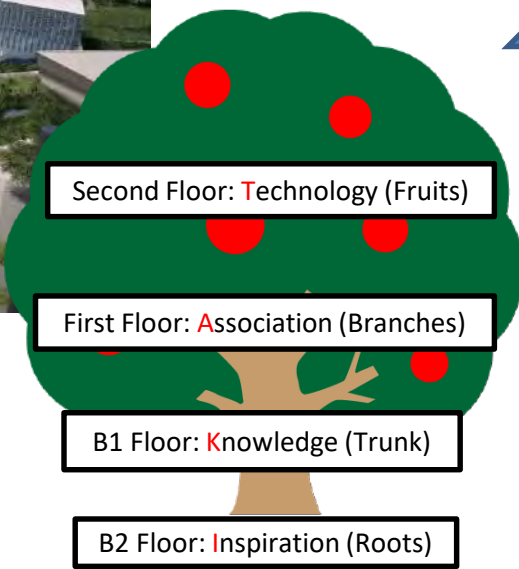
Taki Plaza website
Home＞ Current Students＞ Facilities＞ Taki Plaza

Second Floor: Technology (Fruits)

First Floor: Association (Branches)

B1 Floor: Knowledge (Trunk)

B2 Floor: Inspiration (Roots)

Student Growth

Second Floor: Creative space
Motivated students come together to create ideas (technology) that will blossom.

First Floor: Café and public art area
Branch out and connect to the outside world.

B1 Floor: Study abroad, career support, learning information area
Accumulate knowledge and strengthen your base to fly into the world. One-on-one peer tutoring activities (for science and technology courses, languages, writing, etc.)

 Points: Strengthen support for international students and promote learning among students

B2 Floor: Event space
The B2 event space is the "roots" absorbing nutrients and water, while peer interaction will yield inspiration.

Provided by: Kengo Kuma and Associates

Note: Various student service desks will be consolidated on the First Floor and B1 Floor for a one-stop service.

91

B2 Underground Level

Event Space

Workshop Area

Kitchen Area

The event space facilitates exchange events between Japanese and international students as well as various student-planned events.

In the kitchen area, you may have opportunities to learn from international students about the cuisines of their home countries.

TPG Room
The TPG room is the office of Taki Plaza Gardener, the student committee that participates in operation of Taki Plaza. The committee has been vigorously involved in all aspects of Taki Plaza and Working diligently to organize events, build a community, and issue free newspapers.

B1 Underground Level

Academic Support Area

Student Services Dpt. Student Support Center
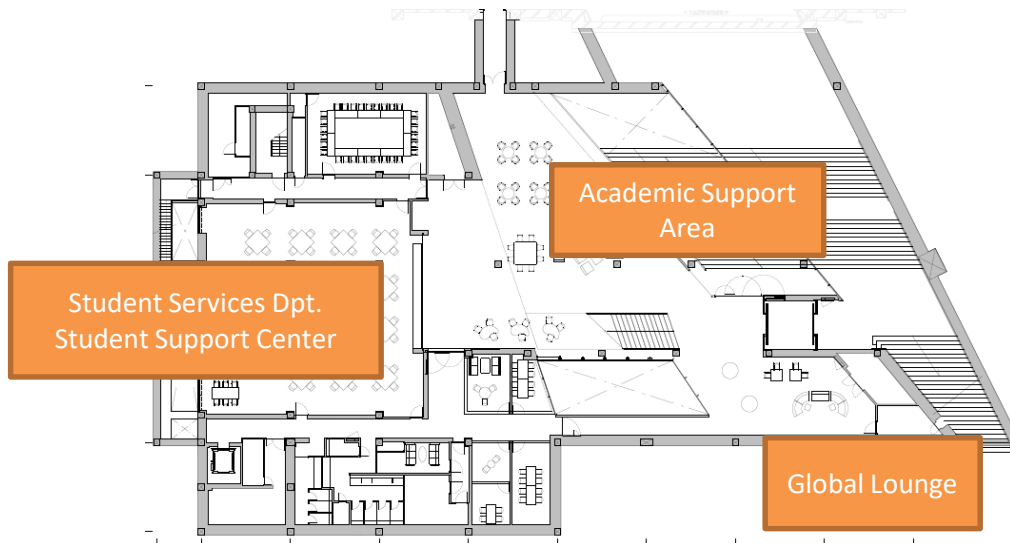
Global Lounge

In the academic support area, students can find support and information on academic matters, study-abroad programs, and job searches offered by student life coaches and consultation services.

The global lounge is an area where international students gather and everyone can enjoy overseas broadcasts.

There are also reception desks handling matters concerning extracurricular activities, studying abroad, insurance services, dormitories, career counseling, etc.

The First Floor

Cafe

Student Services Dept.

Public Art
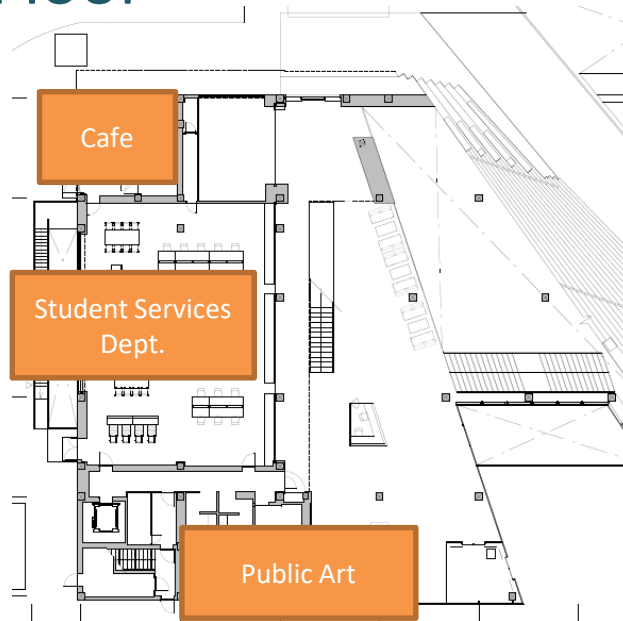
At the main entrance, there is a magnificent artwork designed by manga artist Katsuhiro Otomo, who is known as the creator of "AKIRA."
There is a café facing the wooden deck.

In addition, there are reception desks for students who come for administrative or financial support matters.

Raised tatami-floored section

Open Space

Attic Studio

Attic Office
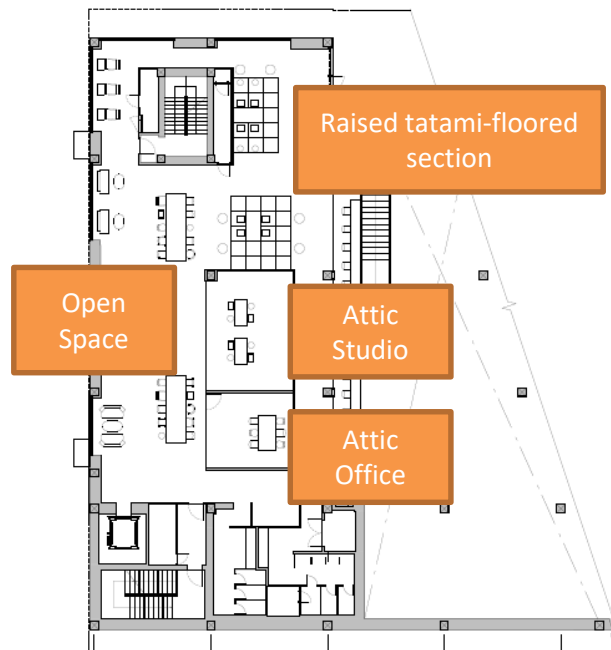
This is free space with an attic studio, where students can materialize their ideas.

Tokyo Tech students designed the raised tatami platforms and selected the furniture.

The Second Floor

10) Support for International Exchange

➢ **Global Lounge**

Global Lounge, near the Taki Plaza B1 entrance, designed for both international students and Japanese students where international exchange events are held.

- Students may freely use this place as a lounge when there are no events.
- Students may watch BBC and browse international magazines.
- Food and drinks are NOT permitted except during events.

Global Lounge (Taki Plaza B1 Floor）
https://takiplaza.gakumu.titech.ac.jp

Opening hours follow the opening hours of Taki Plaza.

➢**TokyoTech - International Exchange Event Calendar**

This Google calendar lets you check international exchange events held by Tokyo Tech students and faculty/staff. Please swipe the QR code and register if you are interested.

16 – 22 Oct

Fri 20 — Multilingual Chat[Peer Life Coach]/多言...
12:50–13:20 at Hisao & Hiroko Taki Plaza...

Temakizushi party
17:30–20:00 at Taki Plaza BF2

23 – 29 Oct

Sat 28 — School Festival (Day 1/2)

Sun 29 — School Festival (Day 2/2)

30 Oct – 5 Nov

November 2023

6 – 12 Nov

Fri 10 — Multilingual Chat[Peer Life Coac...
12:50–13:20 at Hisao & Hiroko Tak...

➢ Multilingual Chat Room by international students

This is a regular event which gives you a chance to talk freely with international students that are native speakers of English, Chinese and Korean. Anyone interested in studying those languages or want to talk in their mother tongue is welcomed.

Please join at Global Lounge at Taki Plaza B1 floor during the lunch break on Fridays. You can find the updated schedule on the International Exchange Calendar.

➢ Help Desk for International Students by Peer students

Current international students at Tokyo Tech will help new comers adjust to life in Japan based on their experience. The Help Desk at the Global Lounge at Taki Plaza will be open during lunch time. You can find the updated schedule from the QR code. Helpdesk is specially open from 12:15-17:15 on April 3, 4 and 5. If you have any questions please stop at the Global Lounge at Taki Plaza B1 floor.

11）Seminars organized by Student Support Center

➢ IoT Seminars

The programs are organized by the Collaboration Center for Design and Manufacturing and Support Center, with the cooperation of companies in which Tokyo Tech alumni are playing significant roles. There were four seminars at Taki Plaza and other venues in the AY2023.

➢ Art Seminars

Student Support Center hosts art seminars twice a year – in spring and autumn, with the aim of nurturing creativity in future scientists. We invite professional artists and let them hold seminars in both English and Japanese, which makes students with various backgrounds feel, comfortable to attend. In the AY2023, seminars were held in both Ookayama and Suzukakedai Campuses.

12）Group study rooms at Ookayama Campus

Common Facilities	East Area	East Area	East Area	West Ares
	★Ookayama Library	★Taki Plaza 2F（long desk by the stairs）	★Taki Plaza B2	★Liberal Arts Library
Hours	See the library homepage	Mon.-Fri., 8:30-21:00 Sat., Sun. and holidays, 9:00-20:00	Mon.-Fri., 8:30-21:00 Sat., Sun. and holidays, 9:00-20:00 Note: Not available during events.	See the library homepage

More details of study rooms (for groups/individuals) on campus can be found on the Tokyo Tech website (Current students – Facilities – Place to Study on Campus).
https://www.titech.ac.jp/english/student-support/students/facilities/study-room

13) Two-year General Timeline for a Master's Program

(This is made based on a schedule in academic year 2023. Check the Institute website for the exact schedule.)

M1										
Apr.	May	Jun.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
・Entrance ceremony ・Course registration for 1Q, 2Q	・Internship seminars ・Industry research seminar ・Internship at a company	・Quarter-end exams and makeup classes for 1Q	・Quarter-end exams and makeup classes for 2Q	・Course registration for 3Q and 4Q ・Study Abroad (short term) ・Fall Career Guidance		・Quarter-end exams and makeup classes for 3Q ・Career Support Seminars for international students	・Job-hunting seminar ・K-find (Corporate research session sponsored by Kuramae)	・Quarter-end exams and makeup classes for 4Q		・Job-hunting season opens ・K-Meet (Career information session by Kuramae alumni association).

M2										
Apr.	May	Jun.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
・Course registration for 1Q and 2Q		・Quarter-end exams and makeup classes for 1Q ・Companies start employment screening process ・Double-checking job-hunting efforts lecture	・Quarter-end exams and makeup classes for 2Q	・Course registration for 3Q and 4Q	・Job offers	・Quarter-end exams and makeup classes for 3Q	・Submission of master's degree applications ・Submission of doctoral program application by current M2 students	・Quarter-end exams and makeup classes for 4Q	・Thesis presentation, review and final examinations ・Advancement assessments of doctoral program applications (applicable to current M2 students)	・Notification of successful doctoral programs (applicable to current M2 students) ・Graduation ceremony

14)Tips for Getting Off to a Good Start

1. Attend the orientation sessions for your major, Liberal Arts Courses, and Entrepreneurship Courses.

2. Thoroughly read the Study Guide (available on the website).
    Understand the requirements of your degree program and design your study plan, noting when to register for major courses and common courses. Consult your academic supervisor to design a study plan in line with your research plan.

    https://www.titech.ac.jp/english/enrolled/life/resources/

3. Find courses you are interested in. Make plans to attend the first lecture of courses for which you are intending to register.
    Check course content in the syllabus on OCW.

    http://www.ocw.titech.ac.jp/index.php?lang=EN

4. Search for graduate minors and progressive graduate minors
    Check registration procedures and completion requirements for those courses in the Study Guide (chapters VI and VII)
    https://www.titech.ac.jp/english/enrolled/life/resources/

5. Set your goals

・Design a study plan that suits your needs and leads you to future academic or business goals. You must have clear objectives such as promoting your research, completing courses, doing an internship, or studying abroad.

・You may seek in-depth advice from career advisors (appointments are required for one-to-one consultations).

https://www.titech.ac.jp/english/student-support/students/career/counseling

6. Consider the possibility of studying abroad by perusing the information provided.

・Visit the study-abroad webpage, "Study Abroad Guide." You are advised to go through the webpage if you are interested, even if only slightly, in studying abroad because the webpage provides you information on what kind of programs are available, how to prepare yourself, and so forth. Furthermore, it helps you to make a study plan as you search for programs you wish to participate in by using the "Study Abroad Program Search" function.

https://www.titech.ac.jp/english/international-student-exchange/students/abroad

・Sign up for the international exchange email newsletter. The latest information on study abroad programs, calls for application for scholarships, and other matters will be sent to you on an irregular basis. It takes about one minute to complete the sign up process by filling the request form.

https://www.titech.ac.jp/english/international-student-exchange/students/abroad/information-consultation

15. Career Outcome Report

We requests all graduating master's and doctoral students, as well as doctoral degree candidates withdrawing from Tokyo Tech, to submit their career outcome report one month before they leave Tokyo Tech.

The data collected will be used as important resources for surveys mandated by the Japanese government, analyzing employment outcomes, and calculating the Tokyo Tech position in the World University Rankings. Moreover, the data will greatly help our junior students when planning their career paths. We appreciate your understanding and cooperation.

The deadline for **Career Outcome Reporting** is **one month** prior to **graduation, completion, or withdrawal of credits**.

Targets: Graduating students, students completing coursework, and doctoral degree candidates withdrawing from Tokyo Tech

employment, Return to your place of employment / advancing to higher education / Preparation for Employment Examination / Continuing job search / Undecided, Others

Student Support Division, Student Services Department (Taki Plaza B1F)

E-mail career.rep@jim.titech.ac.jp
Slack #an-career-report-進路報告

Details

For career outcome reporting, check the link below:
https://www.titech.ac.jp/english/student-support/students/career/report

For other career support information, visit the link below:
https://www.titech.ac.jp/english/student-support/students/career

Other Inquiries to:
Support Planning Group of the Student Support Division
Email: career.rep@jim.titech.ac.jp
Slack: #an-career-report-進路報告

FAQ

1. When you need advice but are reluctant to consult your academic supervisor or fellow laboratory members, consider visiting any of the following:
   ◆ Academic Advisor : Students are assigned one academic supervisor and one academic advisor.
   ◆ Heads of Graduate Studies
   ◆ Student Guidance Room : Faculty members appointed as advisors provide counseling and support.
   ◆ Health Support Center : Students may receive counseling from a physician, counselor, nurse, or pharmacist.
   ◆ Student Life Coaches (a "one-stop" student support service) : You do not need to discuss one specific issue.
   ◆ Career Advisors : Advisors help students prepare for their careers and provide information on job hunting, pursuing higher studies, studying abroad, etc.
   ◆ Kuramae advisors (members of the alumni association, Kuramae Kogyokai) : Students can seek information and advice about companies or career sectors where they can take advantage of their expertise, as well as career options including research and development jobs. Appointments should be made during consultation with a Career Advisor.

2. Things to remember when you are interested in learning and attaining credits or certificates from courses of a discipline other than your major:
   ◆ Thoroughly read the Study Guide for your major. Refer to the "major courses and research-related courses outside the standard curriculum of graduate majors" in the table of completion requirements.
   ◆ Take graduate minors or progressive graduate minors.
   ◆ Register for courses provided by the special graduate degree programs (Tokyo Tech Academy for Leadership (ToTAL), Tokyo Tech Academy for Convergence of Materials and Informatics Group (TAC-MI Group), WISE program for SSS Group, Tokyo Tech Academy of Energy and Informatics Group, etc.).

● <u>FAQ</u>

3. Things to remember when you are looking for extracurricular activities to gain experience that
   will appeal to prospective employers:
   ◆ Join events or activities at your laboratory. Cooperate with other students to keep your laboratory tidy,
     organize academic meetings or social gatherings, assist newcomers, etc.
   ◆ Apply to be a Teaching Assistant (TA).
     In many cases, TAs are appointed by academic supervisors or instructors.
   ◆ Participate in the development of online courses and classes (e.g., MOOCs).
   ◆ Actively connect with your fellow students.

4. Things to remember to develop your leadership skills by taking courses:
   ◆ Take Key Courses of Liberal Arts education and participate in the Graduate Student Assistant Program.
   ◆ Register for courses provided by Specially offered degree programs.

5. Things to remember when planning an internship:
   ◆ Thoroughly read the Study Guide for your major. Taking Internship Courses may be required to complete
     your graduate major. Attend the briefing session for your major and ask if there are Internship Courses.
   ◆ Check bulletin boards for information on internship programs.
     There may be internship programs offered for designated majors.
   ◆ Participate in the Internships seminar in May.
   ◆ If you wish to do an internship independently, collect sufficient information from the websites of career
     networks or companies that you are interested in. (Your internship plan should be scheduled in such a way
     as to avoid delaying your master's thesis research.)

FAQ

◆Information regarding internships offered by companies to Tokyo Tech students are stored in files at the Career Information Room. You can also find the information in the Tokyo Institute of Technology Job Offer Search System (in Japanese only). https://www.titech.ac.jp/enrolled/career/jobs_search.html

◆For research internship opportunities (mid- to long-term industry-academia exchanges), an online matching system (https://www.c-engine.org/) is available for use. IIDP faculty will also provide assistance as necessary.

◆Ask your academic supervisor if there are chances for off-campus research. Some laboratories may provide students with opportunities to promote their thesis research at companies or research institutions as a part of collaborative research.

◆Check internship programs offered by Special graduate degree programs.

◆Be sure to consult your academic supervisor before applying to any internship program. You must create organized schedules to keep your research work on track.

6. Where to begin a job search:
◆ Consult a Career Advisor (appointments are required).
◆ Search for employment information at the Career Information Room. There are useful articles, statistics, and success stories from Tokyo Tech graduates.

7. Advancing to a doctoral program:
◆ Ask your academic supervisor or family for advice. Consult with faculty members or doctoral students.
◆ Visit the Graduate Services Group at Ookayama Campus or the Student Group at Suzukakedai Campus.