

# Institute of Science Tokyo



School of Science

School of Engineering

School of Materials and Chemical Technology

School of Life Science and Technology

School of Environment and Society

## Application Guide for International Graduate Program(A)

commencing in Fall 2025

Tokyo Institute of Technology (Tokyo Tech) and Tokyo Medical and Dental University (TMDU) will be integrated to become "Institute of Science Tokyo" as of October 1, 2024.

Please note that those who pass the selection processes will be among the students of the new university.

September, 2024



Institute of  
**SCIENCE TOKYO**

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## Application schedule

Enrollment Date: **Fall, 2025**

Number of Students Admitted: Several students for each department

Degree program offered: **Master's Program** and **Integrated Doctoral Education Program**

|   |                                       |
|---|---------------------------------------|
| <b>Application Period</b>                             | September 9, 2024 – November 24, 2024 |
| <b>Deadline of the consent mail/letter submission</b> | November 18, 2024 at 23:59 (JST)      |
| <b>Deadline of application</b>                        | November 24, 2024 at 23:59 (JST)      |
| <b>Result notification</b>                            | March 3, 2025 at 15:00 (JST)          |

### **The institution name in this guide**

Please note that, as stated on the cover, successful applicants will be admitted to Institute of Science Tokyo (Science Tokyo). Therefore, this guide will use the name “Institute of Science Tokyo.”

However, faculty and staff members may be working as members of Tokyo Tech to support applicants until they are admitted. Note that systems and other equipment used may also be under the name of Tokyo Tech.

### **1. General Prospectus**

Originating at Tokyo Institute of Technology (Tokyo Tech) in 2007, the International Graduate Program offers qualified international students, who may have little or no knowledge of the Japanese language, an opportunity to enroll in master's programs and Integrated Doctoral Education Programs conducted entirely in English.

The International Graduate Program (A) offers a choice of five English-language based curricular programs related to the 14 departments of Science Tokyo and enables students to obtain a master's or doctoral degree. There are two types of programs: Integrated Doctoral Education Program and Master's Program. Some curricular programs are set up as an Integrated Doctoral Education Program, designed to combine the Master's Program and Doctoral Program so that

graduate students can obtain both degrees within three to five years.

There is no Japanese language requirement for this program as lectures and seminars are held in English. However, students are given opportunities to attend Japanese language classes on a regular basis in order to better adapt to daily life in Japan.

A limited number of students with outstanding academic records are eligible to apply for a scholarship from Japan's Ministry of Education, Culture, Sports, Science and Technology ("MEXT") with a recommendation from Science Tokyo.

## **2. Programs**

This recruitment prospectus relates to Master's and Integrated Doctoral Education Programs scheduled to begin in **Fall 2025**.

### **1) Integrated Doctoral Education Program**

This is a combined Master's and Doctoral Program, and is considered to be one continuous course of study, which cannot be divided into two separate programs. In the Master's segment, students who demonstrate outstanding academic performance may be able to reduce their period of study. Similarly, in the Doctoral segment, students who demonstrate outstanding academic and research performance during the program may be able to reduce their period of study. Such students may be able to complete the entire Master's and Doctoral Program in the minimum period of three years.

Conventionally, in a Japanese postgraduate program, students studying for a master's degree must take 30 credits or more within a two-year period and for a doctoral degree must take 24 credits or more within an additional three years of study follows a master's program. The Integrated Doctoral Education Program requires students to enroll in the Science Tokyo Master's Program, regardless of whether or not they have already earned a master's degree. A maximum of 15 previously earned credits from a graduate school may be transferred to Science Tokyo upon approval.

## **2) Master's Program**

Students enrolled in the Master's Program are expected to successfully complete their supervised studies within two years. To attain a master's degree, students need to earn the designated number of credits outlined by their department in a predetermined program of study, complete and receive approval of their research thesis, and pass a comprehensive final examination. Students who demonstrate outstanding academic performance during the program may be able to reduce their period of study.



## List of Departments and Programs

Applicants are required to specify their intended program from the list below:



### International Graduate Program in Science for Innovative and Quantum-expert Leaders (PSIL)

|                         |  |
|-------------------------|--|
| School                  | <a href="#">School of Science</a>  |
| Offered degree programs | • Integrated Doctoral Education Program  |
| Related departments     | • <a href="#">Department of Mathematics</a> • <a href="#">Department of Physics</a><br>• <a href="#">Department of Chemistry</a> • <a href="#">Department of Earth and Planetary Science</a> |
| Inquiry                 | <a href="mailto:psil_inquiry@sci.titech.ac.jp">psil_inquiry@sci.titech.ac.jp</a>   |



### Interdisciplinary Program for super-smart society (IPSSS)

|                         |  |
|-------------------------|--|
| School                  | <a href="#">School of Engineering</a>  |
| Offered degree programs | • Integrated Doctoral Education Program  |
| Related Departments     | • <a href="#">Department of Mechanical Engineering</a><br>• <a href="#">Department of Systems and Control Engineering</a><br>• <a href="#">Department of Electrical and Electronic Engineering</a><br>• <a href="#">Department of Information and Communications Engineering</a><br>• <a href="#">Department of Industrial Engineering and Economics</a> |
| Inquiry                 | <a href="mailto:cpsss_inquiry@e.titech.ac.jp">cpsss_inquiry@e.titech.ac.jp</a>   |



### Advanced Human Resource Education Program for Emerging Materials Innovations to Solve Social Issues (eMAT-SOC)

|                         |   |
|-------------------------|---|
| School                  | <b>School of Materials and Chemical Technology</b>  |
| Offered degree programs | • Integrated Doctoral Education Program   |
| Related Departments     | • <a href="#">Department of Materials Science and Engineering</a><br>• <a href="#">Department of Chemical Science and Engineering</a>   |
| Inquiry                 | <a href="mailto:matsumoto.h.ac@m.titech.ac.jp">matsumoto.h.ac@m.titech.ac.jp</a><br>(Prof. Hidetoshi Matsumoto, Dept. of Materials Science and Engineering)<br><a href="mailto:tago.taa@m.titech.ac.jp">tago.taa@m.titech.ac.jp</a> (Prof. Teruoki TAGO, Dept. of Chemical Science and Engineering) |



## Graduate Program to Foster BioDX Leaders for Global Bio-Industry

|                         |  |
|-------------------------|--|
| School                  | <b>School of Life Science and Technology</b>                           |
| Offered degree programs | • Integrated Doctoral Education Program                                |
| Related Departments     | • <a href="#">Department of Life Science and Technology</a>            |
| Inquiry                 | <a href="mailto:bio.igp@bio.titech.ac.jp">bio.igp@bio.titech.ac.jp</a> |



## Postgraduate Program for Environmental Designers Contributing to Resilient Cities

|                         |  |
|-------------------------|--|
| School                  | <b>School of Environment and Society</b>   |
| Offered degree programs | • Integrated Doctoral Education Program<br>• Master's Program  |
| Related Departments     | • <a href="#">Department of Civil and Environmental Engineering</a><br>• <a href="#">Department of Architecture and Building Engineering</a>   |
| Inquiry                 | <a href="mailto:edrc-inquiry@cv.titech.ac.jp">edrc-inquiry@cv.titech.ac.jp</a><br>(Profs. Akihiro TAKAHASHI, Shinjiro KANAE, Dept. of Civil and Environmental Engineering)<br><a href="mailto:IGP@arch.titech.ac.jp">IGP@arch.titech.ac.jp</a><br>(Associate Profs. Ryo MURATA, Profs. Naoko SAIO, Shuji TAMURA, Dept. of Architecture and Building Engineering) |

### **3. Eligibility**

Applicants must satisfy one of the conditions provided below.

Please note that applicants **may NOT** (i) apply to a different Science Tokyo program before receiving admission results or (ii) submit multiple applications to different master's programs for the same enrollment period. Applications in either of the above two cases will be rejected or revoked.

Applicants for scholarships must meet another set of conditions; see "7. Scholarship" for details.

#### **Master's Program / Integrated Doctoral Education Program**

- (1) Persons who have successfully completed 16 years of education outside Japan or who are expected to do so by the day before the enrollment date.
- (2) Persons who have graduated from a university or college in Japan or who are expected to do so by the day before the enrollment date.
- (3) Persons who have successfully completed 3 years or more of education at a university or college outside Japan and obtained a degree equivalent to a bachelor's degree or who are expected to do so by the day before the enrollment date.
- (4) Persons who have successfully completed 15 years of education and are individually assessed and recognized by the relevant School at Science Tokyo as having an outstanding academic record
- (5) Persons whose countries do not require 16 years of education prior to completing an undergraduate-level education but who satisfy both conditions noted below and are individually assessed and recognized by the relevant School at Science Tokyo as having academic ability equivalent to or higher than that of graduates of a Japanese university
  - a. Persons who have spent at least one year as a research student or research fellow at a university or research institution in or outside Japan after successfully completing undergraduate-level education
  - b. Persons who are at least 22 years old by the day before the enrollment date.

Note: The admission of applicants expecting to obtain a bachelor degree from a university or college will be revoked should the applicant fail to do so by the day before the enrollment date.



## **Individual Assessment of Admission Eligibility**

Applicants who fall under eligibility conditions (3), (4) or (5) must contact the Admissions Division before proceeding with the online application, and ask if they need to go through the Individual Assessment of Admission Eligibility or submit the relevant documents.

Applicants who submit an application for Individual Assessment of Admission Eligibility will be informed of the result around **mid-January 2025**.

## **Applicants with Japanese nationality**

Japanese citizens who satisfy the above conditions and have a visa\* that enables them to stay for a long period in the country where they currently live, may apply for this program. Applicants who are Japanese citizens should consult the Admissions Division prior to application.

\*Permanent residence, student visa, work visa, etc. (Working holiday visas, tourist visas, short-term stay visas, etc., are not valid for the purpose of applying for this program.)

Note: The admission of applicants expecting to graduate from a university or college or obtain a master's or professional master's degree will be revoked should the applicant fail to do so **by the day before the enrollment date**.

## 4. Application Process

Prior to application, applicants are required to contact their intended academic supervisor at Science Tokyo directly via email and provide a self-introductory statement and a letter of intent for their period of study at Science Tokyo, and obtain the consent of the desired faculty member to serve in this capacity. Applications will not be considered without the consent of a Science Tokyo faculty member who will act as the applicant's academic supervisor.

Before proceeding with the online application process, applicants must obtain a consent email or letter from a Science Tokyo faculty member, and send a copy of it to the Admissions Division by **November 18 at 23:59 (JST)**. After verifying the document, the Admissions Division will provide applicants with a URL for the online application system and a required password.


Note: Faculty members are affiliated with schools and assigned to teach a graduate major. Students must select **a graduate major** from the faculty list. Please ask your intended academic supervisor which graduate major you should select. Requirements for the completion of a degree are stipulated for each graduate major.

# Find your Academic Supervisor

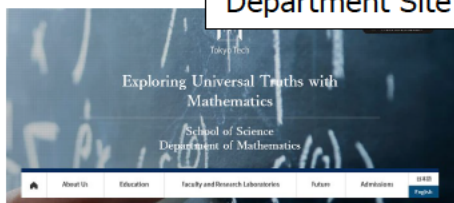
Please refer the chart below for the procedure to find your academic supervisor and relevant contact information. Some academic supervisors may require the submission of additional documents before the stated deadline.

## STEP 1

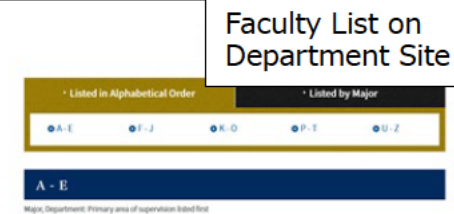
Access your intended department website and confirm the potential academic supervisor's major and research fields.



Department List



Department Site



Faculty List on Department Site

## STEP 2

Check the Application Guide to confirm that the researcher is on the faculty list for your intended IGP.

List of Faculties  
Tokyo Institute of Technology International Graduate Program (C)  
Commencing in September 2021

| Research Field                           | Remarks |
|--|---------|
| Topology                                 |         |
| Algebraic Topology, Mathematical Physics |         |
| Complex Geometry                         |         |
| Partial Differential Equations           |         |
| Algebraic Geometry, Arithmetic Geometry  |         |
| Representation Theory                    |         |

## STEP 3

Use Science Tokyo's research database, "[Star Search](#)" to find faculty member contact and other information.



# How to Apply

## Before Application

1

### Gather information on Science Tokyo websites

Find degree programs and research fields of interest, and search for possible academic supervisors. Make sure to look at the IGP application schedule.

2

### Check eligibility for each program

If you need to go through the Individual Assessment of Admission Eligibility\*, please contact the Admissions Division at [ryugakusei@jim.titech.ac.jp](mailto:ryugakusei@jim.titech.ac.jp).

3

### Contact an intended academic supervisor

Obtain a consent email/letter from your intended academic supervisor to be accepted to their lab. Submit your CV, transcripts, English test score, etc. as requested.

4

### Email a copy of the consent email/letter to the Admissions Division

Send a copy of the consent email/letter to [ryugakusei@jim.titech.ac.jp](mailto:ryugakusei@jim.titech.ac.jp), so that it arrives no later than the deadline stated below. You will receive a **URL** and **password** required to access the online application system **in about a week**.

**Submission deadline: November 18, 2024 at 23:59 (JST)**

5

### Prepare application documents

1. ID photo
2. Consent email/letter from Science Tokyo Faculty Member
3. Field of Study and Study Program (★)
4. Summary of thesis (free format)
5. A copy of your passport or residence card
6. Verification of application fee payment
7. Academic transcripts
8. Certificate of graduation
9. Certificate of degree
10. Evaluation sheet with recommendation letter (★)

Application for individual assessment of admission eligibility (★)

Application for scholarship (See 7. Scholarship)

★ Designated formats can be downloaded from each IGP program page

## Application via online system

6

### **Complete the submission of application documents**

Access the online application system with the URL and PW informed by the Admissions Division.

#### **Online Application System**

Fill out the online form and complete the submission of application documents no later than **November 24, 2024 at 23:59 (JST)**

7

### **Application process is completed**

The Admissions Division reviews application documents and confirms the receipt of the application to each applicant via email.

# Application Documents

## ■ Application Documents to be submitted by applicants

Prior to accessing the online application system, applicants must make sure that all of the following documents are prepared for online submission.

| No. | Required Documents   |
|-----|--|
| 1   | <b>ID Photo</b><br>Photograph (JPEG) *4.0×3.0 cm, taken within the past six months. The file must be less than 2MB, 350 (height) X 290 (width) pixels, JPEG format with a resolution of more than 300 dpi. The photo should be in color with no background and must provide a clear, front view of the applicant's entire face.  |
| 2   | <b>Consent of a Science Tokyo Faculty Member</b><br>Electric or scanned data of consent mail or letter to verify that a Science Tokyo faculty member has consented to act as academic supervisor during the intended period of study at Science Tokyo. (This document must be emailed to the Admissions Division prior to accessing the online application system no later than <b>November 18, 2024, at 23:59 (JST)</b> . Applicant will then receive a URL and Password required to access the online application system in about a week.) |
| 3   | <b>Field of Study and Study Program [Research Proposal] (★)</b><br>★Designated formats can be downloaded from each IGP program page  |
| 4   | <b>Summary of Thesis or Research</b><br>For applicants of the Master's program and Integrated Doctoral Education Program: an outline of your study or research in your undergraduate course.   |
| 5   | <b>Applicant's Passport or Residence card</b><br>Electric or scanned data of the page(s) with the applicant's name, nationality, date of birth, and photo<br>*Japanese applicant must also submit the page(s) of his/her passport that shows visas obtained in the country where he/she lives.   |



|   |  |
|---|--|
| 6 | <p><b>Payment Verification of Application Fee (Entrance Examination Fee): JPY 30,000</b></p> <p>Applicants must pay the application fee online at <a href="#">E-Shiharai Net</a>, using a credit card within the application fee payment period. Save a “Payment Verification” page that appears at the end of the payment process as a PDF file.</p> <p>A system usage fee will be charged in addition to the application fee.</p> <p>Applicant who is a Japanese Government (MEXT) Scholarship student is not required to pay this fee. In that case, please submit a certificate verifying that you have been granted the scholarship (受給証明書).</p> <p>The application fee is non-refundable. However, the application fee may be refunded in the following cases, with bank remittance or transaction handling fees borne by the applicant.</p> <ol style="list-style-type: none"> <li>1. Applicants paid the application fee but did not submit the application documents</li> <li>2. Applications could not be processed due to lacking necessary documents, etc.</li> <li>3. Applicants will receive the MEXT Scholarship and enroll at Science Tokyo</li> </ol> <p><b>Payment Period: September 9, 2024 – November 24, 2024</b></p> |
| 7 | <p><b>Official Academic Transcripts</b></p> <ol style="list-style-type: none"> <li>1) For applicants to Integrated Doctoral Program and Master's Program: official academic transcripts for undergraduate programs</li> <li>2) For MEXT scholarship applicants previously enrolled in a graduate school: official academic transcripts for graduate programs</li> <li>3) If the applicant's grades have not been reflected due to a difference in evaluation systems at the university in which he/she was enrolled and his/her current university (including Tokyo Tech or TMDU) -- such as those involving transfer, exemptions, etc. -- the transcripts from the original institute(s) that granted the credits should also be submitted.</li> </ol>  |
| 8 | <p><b>Certificate confirming graduation or expected graduation issued from applicant's previous or current university</b></p> <p>The documentation must verify the applicant's eligibility for admission, and must include his/her name, confirm graduation (or expected graduation), and include the date of graduation.</p> <p>If the applicant graduated or is graduating early or has skipped a grade or year, an official document or letter issued by the university indicating as such must be submitted.</p>   |
| 9 | <p><b>Certificate confirming degree or expected degree issued from applicant's previous or current university</b></p> <p>The documentation must verify the applicant's degree (or expected degree), and must</p>   |

|  |   |
|--|---|
|  | include the recipient's name, confirm the degree awarded, and include the date issued and the degree program taken. |
|--|---|

Note:

Documents 7 & 8 & 9:

Documents written in a language other than English or Japanese must be accompanied by a certified English or Japanese translation. Translations should be certified by a public institution or the issuing university.

Document 8 & 9:

Certificates for 8 and 9 above need not be separate documents. A document certifying both graduation and the degree awarded may be submitted.

If applicant's university does not issue a certificate of expected graduation and degree, official letter, issued by applicant's current university, indicating applicant's name, date of birth, expected date of graduation, expected degree may be accepted as substitute.

|    |  |
|----|--|
| 10 | <p><b><u>Evaluation sheet with recommendation (in a single document)</u></b><br/>(★)</p> <p>Must be issued by a supervisor, head of department, or similar official at the applicant's previous or current university to verify the applicant's potential</p> <p>The applicant may submit only one evaluation sheet with recommendation letter. If there are multiple submissions of the document, even if they are accepted by the online application system, only the first submission will be considered valid. This document must be issued from the university the applicant attended for full time study.</p> <p>★ Designated formats can be downloaded from each IGP program page</p> |
|----|--|

## ■ **Application Documents for Individual Assessment of Admission Eligibility**

Applicants who fall under eligibility conditions (3), (4), or (5) must contact the Admissions Division before proceeding with the online application, and ask if they need to go through the Individual Assessment of Admission Eligibility or submit the relevant documents.

Applicant who is required to go through Individual Assessment of Admission Eligibility, must submit **Application for Individual Assessment of Admission Eligibility (★)** with the following supplementary documents

**For applicants of the Master's / Integrated Doctoral Education Program:**

- Certificate of Enrollment as a research student/fellow after graduation from an undergraduate course of study at a university

■ **Application Documents for Scholarships**

**Scholarship Application Documents**

Applicants who wish to apply for the scholarship listed in Section 7, “Scholarship” are required to prepare the necessary documents and submit those via online application system. Before applying for the scholarship, applicants are required to check the application qualifications carefully and refer to the explanation in Section 7, “Scholarship” in this application guide.

## Completion of the online Application Process

The entire online application process must be completed no later than **November 24, 2024 at 23:59 (JST)**. Applicants must fill out the online form and submit the application documents via the Science Tokyo online submission system no later than this deadline.

Note:

- (1) Admission may be withdrawn at any time, even after enrollment, if the application documents are found to be invalid or contain false information.
- (2) The information provided in application documents is used only for entrance examinations and related purposes. The policy regarding the use of personal information is as follows:
  - a. Personal information obtained through the application process will be used for selection of applicants. Only in the case of enrolling applicants will it be used for (i) enrollment procedures, (ii) administrative purposes (student records, academic guidance), (iii) student support (health management, career support, application for scholarships and tuition exemption), and (vi) procedures related to the collection of tuition.
  - b. Entrance examination results may be used in the future to improve applicant selection methods.
  - c. In performing the tasks described in items a and b, some duties may be delegated to outside contractors. These contractors may, where necessary, be provided with all or part of obtained personal information to complete their duties.
- (3) Science Tokyo will not accept or consider any documents received after the stated deadline or any incomplete applications.
- (4) Submitted documents cannot be changed after completing the application.
- (5) Only application documents submitted by applicants themselves will be accepted. Those submitted by proxies will not be considered.

## 5. Admission procedures

### Admission screening

8

#### **Science Tokyo schedules interviews and/or written examinations**

Departments or academic supervisors will notify applicants (via email) about interview and/or examination dates.

9

#### **Interviews and/or written examinations in English take place**

Applicants attend interviews and/or take written examinations as designated by departments.

### **Interview or/and Examination in English**

The examination period and subjects differ among departments. After completion of application, applicants will be notified about the schedule of interview or/and examination by the intended academic supervisor or department. Please refer to the contact details (on page 4-5) for inquiries and further information.

### Notification of results

10

A list of successful applicants will be published on the Tokyo Tech website. Each applicant receives an admission decision. Successful applicants will be notified about documents required for enrollment by the admissions division via email.

### **Admission Decision**

The admission decision will be made based on the application documents and screening and interview processes including an internet-based interview.

The Announcement of Successful Applicants (in PDF format) will be posted on the “Admissions Results” web page around **15:00 on Monday, March 3, 2025**. Inquiries via email, telephone, etc. regarding the result of examination will not be answered.

## **6. Enrollment Fee and Tuition**

Students admitted to the Master's and Doctoral Programs are required to pay the following fees.

|                |             |
|----------------|-------------|
| Enrollment Fee | JPY 282,000 |
| Annual Tuition | JPY 635,400 |

(Enrollment and tuition fees are subject to change. The amounts indicated above do not include bank handling charges.)

Payment of the enrollment fee and tuition for the fall (first) semester can be postponed, and payment of tuition for the spring (second) and subsequent semesters can be waived, upon application and approval.

## **7. Scholarship**

Applicants for IGP(A) are able to apply for the following scholarships under certain conditions.

\* Japanese citizens may not apply for the following scholarships.

### **I. MEXT Scholarship (Integrated Doctoral Education Program Only)**

Applicants for Integrated Doctoral Education Programs with outstanding academic performance records may have a chance to apply for the Japanese Government (MEXT) Scholarship. Those who wish to apply for this scholarship must see a separate online application guide to check the details and whether they are eligible.

Online application guide

<https://www.titech.ac.jp/english/international-student-exchange/prospective-students/scholarships/mext-university-general>

The candidates nominated for the MEXT Scholarship will be notified together with the admission decision in mid-March. The notification of scholarship recipients will be sent to applicants in early August at the latest.

Applicants for this scholarship must submit the following documents in pdf form via the online application system together with the application documents for IGP(A):



1. Application Form for Japanese Government (MEXT) Scholarship; Find the format in the above-mentioned online application guide.
2. Recommendation letter from the dean or equivalent official of the applicant's home university addressed to the President of Institute of Science Tokyo (free format); This letter must be issued from the university the applicant attended for full-time study.
3. Materials showing the applicant's proficiency in the English language; Find details in the above-mentioned online application guide.

## **II. JASSO (Overseas Applicants Only)**

Overseas applicants who enroll at Science Tokyo have the chance to apply for the “Reservation Program for Monbukagakusho Honors Scholarship for Privately-Financed International Students by Pre-arrival Admission” from the Japan Student Services Organization (“JASSO”).

The monthly amount of this scholarship is JPY48, 000 and is subject to change as specified by JASSO. This scholarship will be paid from October 2025 to March 2026 (6 months). Applicants must pay the enrollment and tuition fees even if they are selected for this scholarship. Please note that those who are granted any other scholarship that doesn't allow plural grants cannot apply for this scholarship simultaneously.

Students who intend to apply for the JASSO scholarship must check if they fulfil all the criteria, select “JASSO” as your intended scholarship in the intended scholarship section of the online application system and submit English Proficiency Test Score Report separately from the IGP (A or C) application.

For those who selected “JASSO” and submitted required documents, the Student Support Division will contact you for further instruction via email by the beginning of August 2025. The selection will be conducted during February and August and the result will be announced via email by the beginning of September.

Those who wish to apply for this scholarship must see a separate online application guide to check if they are eligible.

<https://www.titech.ac.jp/english/student-support/prospective-students/scholarships/jasso>

## **8. Others**

To manage the risk of infectious diseases at Science Tokyo, international students (including those from other domestic universities, technical colleges, and Japanese language schools) who have passed the entrance exam, are urged to submit a health certificate signed by a physician in the last three months before enrollment.

Science Tokyo will apply on behalf of successful applicants for a Certificate of Eligibility (COE) after the examination results are released. There may be cases, however, where the COE application is rejected by the Immigration Services Agency of Japan. Those without a COE will not be permitted to enter Japan, and will be withdrawn from Science Tokyo if they have already completed the enrollment procedure. Please also note that enrollment and tuition fees once paid will not be refunded under any circumstances. Science Tokyo has a system for postponing payment of those fees.

## 9. Inquiries

Answers to frequent asked questions about IGP admissions are included on the FAQ page below.

<https://www.titech.ac.jp/english/admissions/prospective-students/graduate-programs/igp-faq>

For other inquiries, please contact the Admissions Division at the following email addresses.

| Inquiries about                     | email  |
|-------------------------------------|--|
|                                     | designated words in the subject box  |
| Application procedures              | <a href="mailto:ryugakusei@jim.titech.ac.jp">ryugakusei@jim.titech.ac.jp</a>         |
|                                     | [Question about application] IGP(A)2025 Fall_Full Name                               |
| Consent email/letter submission     | <a href="mailto:ryugakusei@jim.titech.ac.jp">ryugakusei@jim.titech.ac.jp</a>         |
|                                     | [Consent Submission] IGP(A)2025 Fall_Full Name                                       |
| Online application (for applicants) | <a href="mailto:igp.submission@jim.titech.ac.jp">igp.submission@jim.titech.ac.jp</a> |
|                                     | [Question about submission] IGP(A)2025 Fall_Full Name                                |

Notes:

- (1) Upon sending your question by email, please put the designated words in the subject box.
- (2) In circumstances where you need to send Science Tokyo hard copies of the required documents by post, please contact [ryugakusei@jim.titech.ac.jp](mailto:ryugakusei@jim.titech.ac.jp) (see “Application procedures” of the above table) for advice.
- (3) Inquiries will only be accepted from applicants themselves. Those received from proxies will not be responded to.
- (4) **We strongly recommend that you contact us as soon as possible if you have any questions about application procedures. As the procedures can take time, be sure to submit the documents well before the deadline. Please note that we cannot provide any support if you send inquiries/emails at the moment just before the application deadline.**

# Appendix

## List of Faculty

IGP(A), commencing in  
Fall 2025

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# List of Faculty

## Institute of Science Tokyo International Graduate Program (A)

### Commencing in Fall 2025

#### A-1 International Graduate Program in Science for Innovative and Quantum-expert Leaders (PSIL)

##### (1) Dept. of Mathematics

| Academic Supervisor |                     | Research Field  | Remarks | Graduate Major |
|---------------------|---------------------|---|---------|----------------|
| Professor           | OCHIAI, Tadashi     | Number Theory, Arithmetic Geometry                              |         | • Mathematics  |
| Professor           | SHIMOMOTO, Kazuma   | Commutative algebra, Singularity theory, number theory          |         | • Mathematics  |
| Professor           | TAGUCHI, Yuichiro   | Number Theory   |         | • Mathematics  |
| Associate Professor | OYA, Hironori       | Representation Theory   |         | • Mathematics  |
| Associate Professor | SUZUKI, Masatoshi   | Analytic Number Theory  |         | • Mathematics  |
| Associate Professor | MA, Shohei          | Algebraic Geometry  |         | • Mathematics  |
| Associate Professor | YATAGAWA, Yuri      | Arithmetic Geometry   |         | • Mathematics  |
| Professor           | ENDO, Hisaaki       | Topology  |         | • Mathematics  |
| Professor           | GOMI, Kiyonori      | Algebraic Topology, Mathematical Physics                        |         | • Mathematics  |
| Professor           | HONDA, Nobuhiro     | Complex Geometry  |         | • Mathematics  |
| Associate Professor | KALMAN, Tamas       | Topology  |         | • Mathematics  |
| Associate Professor | NOSAKA, Takefumi    | Topology  |         | • Mathematics  |
| Professor           | KAGEI, Yoshiyuki    | Partial Differential Equations                                  |         | • Mathematics  |
| Professor           | TONEGAWA, Yoshihiro | Partial Differential Equations, Geometric Measure Theory        |         | • Mathematics  |
| Professor           | NINOMIYA, Syoiti    | Computational Finance, Mathematical Finance, Probability Theory |         | • Mathematics  |
| Professor           | MIURA, Hideyuki     | Theory of Partial Differential Equations                        |         | • Mathematics  |
| Associate Professor | ONODERA, Michiaki   | Partial Differential Equations                                  |         | • Mathematics  |
| Associate Professor | FUJIKAWA, Ege       | Complex Analysis  |         | • Mathematics  |
| Associate Professor | Hishino, Masato     | Probability theory, Stochastic partial differential equations   |         | • Mathematics  |
| Professor           | ARAI, Zin           | Dynamical Systems, Computational Topology                       |         | • Mathematics  |



| Academic Supervisor |                     | Research Field                           | Remarks | Graduate Major |
|---------------------|---------------------|--|---------|----------------|
| Professor           | NISHIBATA, Shinya   | Theory of Partial Differential Equations |         | • Mathematics  |
| Associate Professor | SUZUKI, Sakie       | Knot Theory, Quantum Topology            |         | • Mathematics  |
| Associate Professor | TSUCHIOKA, Shunsuke | Quantum Algebra, Representation Theory   |         | • Mathematics  |

## (2) Dept. of Physics

| Academic Supervisor |                     | Research Field  | Remarks | Graduate Major |
|---------------------|---------------------|---|---------|----------------|
| Professor           | ITO, Katsushi       | Particle Physics (Theory)   |         | • Physics      |
| Professor           | KAGAWA, Fumitaka    | Condensed-matter physics, Phase control, Nonequilibrium (Experiment)  |         | • Physics      |
| Professor           | KUZE, Masahiro      | Particle Physics (Experiment)   |         | • Physics      |
| Professor           | KOZUMA, Mikio       | Quantum optics, Laser cooling, Bose Einstein condensation   |         | • Physics      |
| Professor           | SATOH, Takuya       | Ultrafast dynamics, optical condensed matter physics  |         | • Physics      |
| Professor           | SASAMOTO, Tomohiro  | Statistical physics   |         | • Physics      |
| Professor           | JIDO, Daisuke       | Nuclear Hadron Physics (Theory)   |         | • Physics      |
| Professor           | JINNOUCHI, Osamu    | High Energy Particle Physics (Experiment)   |         | • Physics      |
| Professor           | SUYAMA, Teruaki     | Cosmology, gravitational waves (Theory)   |         | • Physics      |
| Professor           | SEKIGUCHI, Kimiko   | Nuclear Physics (Experiment)  |         | • Physics      |
| Professor           | NAKAMURA, Takashi   | Nuclear Physics (Experiment)  |         | • Physics      |
| Professor           | NISHIDA, Yusuke     | Theoretical Quantum Physics, Ultracold Atoms  |         | • Physics      |
| Professor           | HIRAHARA, Toru      | Surface Physics, Nano /spin-Science   |         | • Physics      |
| Professor           | FUJISAWA, Toshimasa | Electron dynamics in semiconductor nanostructures   |         | • Physics      |
| Professor           | MUKAIYAMA, Takashi  | Laser cooling of atoms, ion traps, quantum sensing, Fermi degenerated gases, ultracold chemistry                |         | • Physics      |
| Professor           | MURAKAMI, Shuichi   | Theoretical Condensed Matter Physics, spintronics, geometrical phases   |         | • Physics      |
| Professor           | OHZEKI, Masayuki    | Quantum Mechanics and Statistical Physics for Information processing (Machine learning and Quantum Computation) |         | • Physics      |
| Professor           | NOTOMI, Masaya      | Nanophotonics, Photonic crystals, Metamaterials   |         | • Physics      |
| Associate Professor | ISHIZUKA, Hiroaki   | Theoretical condensed matter physics, transport phenomena, magnetism  |         | • Physics      |

| Academic Supervisor           |                    | Research Field  | Remarks | Graduate Major                         |
|-------------------------------|--------------------|---|---------|--|
| Associate Professor           | IMAMURA, Yosuke    | Particle Physics (Theory)   |         | • Physics                              |
| Associate Professor           | UCHIDA, Masaki     | Topological and correlated materials, Molecular beam epitaxy, Quantum transport phenomena   |         | • Physics                              |
| Associate Professor           | KOGA, Akihisa      | Strongly correlated electron systems  |         | • Physics                              |
| Associate Professor           | SEKIZAWA, Kazuyuki | Nuclear Physics (Theory)  |         | • Physics                              |
| Associate Professor           | SOMIYA, Kentaro    | Gravitational Wave Detector   |         | • Physics                              |
| Associate Professor           | NISHIGUCHI, Daiki  | Nonequilibrium statistical physics, active matter, biophysics   |         | • Physics<br>Add on October 22nd, 2024 |
| Associate Professor           | FUJIOKA, Hiroyuki  | Nuclear and Hadron Physics (Experiment)   |         | • Physics                              |
| Associate Professor           | PU, Jiang          | Physical properties and devices of 2D materials and their heterostructures  |         | • Physics                              |
| Associate Professor           | MATSUO, Sadashige  | Exploration of fundamental science through advanced electrical control of nanodevice quantum properties, superconductors and semiconductor devices                    |         | • Physics                              |
| Associate Professor           | MATSUSHITA, Michio | Optical spectroscopy of single proteins   |         | • Physics                              |
| Associate Professor           | YATSU, Yoichi      | Astrophysics (Experiment)   |         | • Physics                              |
| Specially Appointed Professor | YU, Xiuzhen        | Direct observations of electronic states and emergent phenomena in strongly correlated materials by the transmission electron microscopy; nanoscience and spintronics | RIKEN   | • Physics                              |
| Specially Appointed Professor | HIGEMOTO, Wataru   | Strongly correlated electron systems, Muon science  | JAEA    | • Physics                              |
| Specially Appointed Professor | FUJIMOTO, Ryuichi  | X-ray astronomy (high-resolution spectroscopic observations of galaxy clusters using X-ray satellites, development and calibration of onboard instruments)            | JAXA    | • Physics                              |
| Visiting Professor            | MATSUHARA, Hideo   | Infrared Astronomy (Experiment)   | JAXA    | • Physics                              |
| Visiting Professor            | MIYAKE, Takashi    | Computational materials science   | AIST    | • Physics                              |

### (3) Dept. of Chemistry

| Academic Supervisor |                     | Research Field   | Remarks | Graduate Major                                  |
|---------------------|---------------------|--|---------|---|
| Professor           | KAWAGUCHI, Hiroyuki | Coordination Chemistry   |         | • Chemistry                                     |
| Professor           | KONDO, Mio          | Coordination chemistry, Catalytic chemistry, Electrochemistry                              |         | • Energy Science and Informatics<br>• Chemistry |
| Professor           | HIBARA, Akihide     | Analytical chemistry, interface chemistry, atmospheric chemistry, microfluidic bioanalysis |         | • Chemistry                                     |
| Professor           | MAEDA, Kazuhiko     | Inorganic Materials Chemistry, Photochemistry, Catalysis, Electrochemistry                 |         | • Energy Science and Informatics<br>• Chemistry |
| Associate Professor | FUKUHARA, Gaku      | Analytical Chemistry, Supramolecular Chemistry   |         | • Chemistry                                     |
| Professor           | ISHIUCHI, Shun-ichi | Physical Chemistry, Laser Spectroscopy   |         | • Chemistry                                     |
| Professor           | TANIGUCHI, Kouji    | Solid State Chemistry  |         | • Energy Science and Informatics • Chemistry    |

| Academic Supervisor |                    | Research Field  | Remarks | Graduate Major  |
|---------------------|--------------------|---|---------|---|
| Associate Professor | OKIMOTO, Yoichi    | Optical Spectroscopy of Solids  |         | <ul style="list-style-type: none"> <li>• Energy Science and Informatics</li> <li>• Chemistry</li> </ul> |
| Associate Professor | KITAJIMA, Masashi  | Physical Chemistry  |         | <ul style="list-style-type: none"> <li>• Chemistry</li> </ul>   |
| Associate Professor | NISHINO, Tomoaki   | Surface Chemistry   |         | <ul style="list-style-type: none"> <li>• Chemistry</li> </ul>   |
| Associate Professor | YAMAZAKI, Masakazu | Physical Chemistry, Atomic and Molecular Physics                      |         | <ul style="list-style-type: none"> <li>• Chemistry</li> </ul>   |
| Professor           | OHMORI, Ken        | Organic Chemistry   |         | <ul style="list-style-type: none"> <li>• Chemistry</li> </ul>   |
| Professor           | GOTO, Kei          | Organic Chemistry   |         | <ul style="list-style-type: none"> <li>• Chemistry</li> </ul>   |
| Professor           | MINAMI, Atsushi    | Organic Chemistry   |         | <ul style="list-style-type: none"> <li>• Chemistry</li> </ul>   |
| Professor           | YAMASHITA, Makoto  | Main Group Chemistry, Organometallic Chemistry, Homogeneous Catalysis |         | <ul style="list-style-type: none"> <li>• Chemistry</li> </ul>   |
| Associate Professor | ONO, Kosuke        | Organic Chemistry, Supramolecular Chemistry                           |         | <ul style="list-style-type: none"> <li>• Chemistry</li> </ul>   |
| Associate Professor | KUDO, Fumitaka     | Bioorganic Chemistry  |         | <ul style="list-style-type: none"> <li>• Chemistry</li> </ul>   |
| Associate Professor | MORIMOTO, Yuma     | Coordination Chemistry, Bioinorganic Chemistry                        |         | <ul style="list-style-type: none"> <li>• Chemistry</li> </ul>   |
| Associate Professor | ANDO, YOSHIO       | Organic Chemistry   |         | <ul style="list-style-type: none"> <li>• Chemistry</li> </ul>   |
| Associate Professor | TERADA, Akihiko    | Volcanology   |         | <ul style="list-style-type: none"> <li>• Chemistry</li> </ul>   |

#### (4) Dept. of Earth and Planetary Sciences

| Academic Supervisor |                   | Research Field  | Remarks | Graduate Major   |
|---------------------|-------------------|---|---------|--|
| Professor           | UENO, Yuichiro    | Geology, Biogeochemistry  |         | <ul style="list-style-type: none"> <li>• Earth and Planetary Sciences</li> </ul> |
| Professor           | SATO, Bunei       | Observational Astronomy, Exoplanets                               |         | <ul style="list-style-type: none"> <li>• Earth and Planetary Sciences</li> </ul> |
| Professor           | NAKAJIMA, Junichi | Seismology, Geophysics  |         | <ul style="list-style-type: none"> <li>• Earth and Planetary Sciences</li> </ul> |
| Professor           | NAKAMOTO, Taishi  | Astrophysics, Planetary Formation                                 |         | <ul style="list-style-type: none"> <li>• Earth and Planetary Sciences</li> </ul> |
| Professor           | YOKOYAMA, Tetsuya | Geochemistry, Cosmochemistry                                      |         | <ul style="list-style-type: none"> <li>• Earth and Planetary Sciences</li> </ul> |
| Associate Professor | ISHIKAWA, Akira   | Geology, Solid Earth Geochemistry                                 |         | <ul style="list-style-type: none"> <li>• Earth and Planetary Sciences</li> </ul> |
| Associate Professor | OHTA, Kenji       | Study of the Earth's Deep Interior, High-Pressure Mineral Physics |         | <ul style="list-style-type: none"> <li>• Earth and Planetary Sciences</li> </ul> |
| Professor           | OKUZUMI, Satoshi  | Astrophysics, Planetary Formation                                 |         | <ul style="list-style-type: none"> <li>• Earth and Planetary Sciences</li> </ul> |
| Associate Professor | OZAKI, Kazumi     | Earth System Science, Theory of Earth's Evolution                 |         | <ul style="list-style-type: none"> <li>• Earth and Planetary Sciences</li> </ul> |
| Associate Professor | KEBUKAWA, Yoko    | Astrochemistry, Prebiotic chemistry                               |         | <ul style="list-style-type: none"> <li>• Earth and Planetary Sciences</li> </ul> |
| Associate Professor | GILBERT, ALEXIS   | Organic Geochemistry, Biogeochemistry                             |         | <ul style="list-style-type: none"> <li>• Earth and Planetary Sciences</li> </ul> |

| Academic Supervisor |                 | Research Field                            | Remarks  | Graduate Major                 |
|---------------------|-----------------|---|--|--------------------------------|
| Associate Professor | KANDA, Wataru   | Physical Volcanology, Geomagnetism        | Institute of Innovative Research, Multidisciplinary Resilience Research Center | • Earth and Planetary Sciences |
| Professor           | HERNLUND, John  | Geophysical Modeling                      | Earth-LifeScience Institute  | • Earth and Planetary Sciences |
| Professor           | GENDA, Hidenori | Comparative Planetology, Aqua Planetology | Earth-LifeScience Institute  | • Earth and Planetary Sciences |

## (1) Dept. of Mechanical Engineering

| Academic Supervisor |                      | Research Field   | Remarks | Graduate Major           |
|---------------------|----------------------|--|---------|--------------------------|
| Professor           | II, Satoshi          | [Thermofluid field] Biomechanics, Computational mechanics, Multilayer fluid flows, Cerebral circulation, Data assimilation   |         | • Mechanical Engineering |
| Professor           | ONISHI, Ryo          | [Thermofluid field] Environmental Turbulent Flows, CFD, Machine Learning, Data Assimilation, Micro-Meteorology Forecasting System  |         | • Mechanical Engineering |
| Professor           | SAITO, Takushi       | [Thermofluid field] Development of thermal design technology for electrification of machinery, Analysis of transport phenomena including interface, Development of heat transfer control technology using nanomaterials                  |         | • Mechanical Engineering |
| Professor           | SUEKANE, Tetsuya     | [Thermofluid field] CO2 Geological Storage, Enhanced Oil Recovery, Transport in Porous Media, Numerical Simulation of Multiphase Flow  |         | • Mechanical Engineering |
| Professor           | TANAHASHI, Mamoru    | [Thermofluid field] Fluid Dynamics, Heat and Mass Transfer, Combustion   |         | • Mechanical Engineering |
| Professor           | NOZAKI, Tomohiro     | [Thermofluid field] Plasma Chemistry, Reaction Engineering, Thermal Engineering  |         | • Mechanical Engineering |
| Professor           | FUSHINOBU, Kazuyoshi | [Thermofluid field] Thermal Engineering (Ultrafast Laser Diagnosis & Processing, Additive Manufacturing, Automotive Electronic Packaging, Digital Printing, Energy Equipment)  |         | • Mechanical Engineering |
| Professor           | MURAKAMI, Yoichi     | [Thermofluid field] CO2 Separation Matgerials, Materials for Solid-State Batteries, Thermal Energy Reuse, Liquid Thermoelectric Power Generation   |         | • Mechanical Engineering |
| Associate Professor | KODAMA, Manabu       | [Thermofluid field] X-ray measurement, machine learning analysis, electrochemical simulation, next-generation EV battery, water electrolysis   |         | • Mechanical Engineering |
| Associate Professor | SASABE, Takashi      | [Thermofluid field] Advanced Energy Engineering  |         | • Mechanical Engineering |
| Associate Professor | SUZUKI, Sayaka       | [Thermofluid field] Thermal Engineering, Environmental Energy Engineering, Fire, Environmental Impacts of Fire and Combustion  |         | • Mechanical Engineering |
| Associate Professor | NAGASAWA, Tsuyoshi   | [Thermofluid field] Energy conversion and environmental load reduction technologies, Solid oxide fuel cell (SOFC), Combustion synthesis of functional nanomaterials, Advanced internal combustion engine, Exhaust after-treatment system |         | • Mechanical Engineering |
| Professor           | ARAKI, Wakako        | [Materials and processing fields] Mechanics of materials, Fracture mechanics, Solid state ionics, Mechanics and ionics of ion-conducting oxides  |         | • Mechanical Engineering |
| Professor           | HIRATA, Atsushi      | [Materials and processing fields] Surface Engineering  |         | • Mechanical Engineering |
| Professor           | MIZUTANI, Yoshihiro  | [Materials and processing fields] Structural Reliability Engineering, Application of Artificial Intelligence   |         | • Mechanical Engineering |
| Associate Professor | AONO, Yuko           | [Materials and processing fields] Functional Surface and Thin Film, Laser Processing   |         | • Mechanical Engineering |
| Professor           | AKASAKA, Hiroki      | [Materials and processing fields] Synthesis and Evaluation of Inorganic Carbon Materials   |         | • Mechanical Engineering |
| Professor           | INABA, Kazuaki       | [Materials and processing fields] Continuum Mechanics  |         | • Mechanical Engineering |

| Academic Supervisor                     |                     | Research Field  | Remarks | Graduate Major           |
|---|---------------------|---|---------|--------------------------|
| Associate Professor                     | SAKAGUCHI, Motoki   | [Materials and processing fields] Mechanics and Strength of Materials   |         | • Mechanical Engineering |
| Associate Professor                     | SEKIGUCHI, Yu       | [Materials and processing fields] Surface/Interface, Joint strength, Fracture/Fatigue, Polymer, Adhesives, Mechanics of materials   |         | • Mechanical Engineering |
| Associate Professor                     | TANAKA, Tomohisa    | [Materials and processing fields] Production engineering, Manufacturing, Tribology  |         | • Mechanical Engineering |
| Associate Professor                     | HIRATA, Yuki        | [Materials and processing fields] Synthesis and functional exploration of two-dimensional atomic layer thin films and their heterostructures / Three-dimensional nano-deposition of DLC films and their mechanical, electrical, and biomedical applications |         | • Mechanical Engineering |
| Associate Professor                     | YAMAZAKI, Takahisa  | [Materials and processing fields] Materials for Space Use, Advanced Joining and Surface Coating   |         | • Mechanical Engineering |
| Associate Professor                     | YAMAMOTO, Takatoki  | [Materials and processing fields] AI-driven biosensing, metabio, medical/healthcare devices, micro/nanofluidic systems  |         | • Mechanical Engineering |
| Professor                               | KIM, Joon-wan       | [Mechanical system field] MEMS, Micro Mechatronics, Bio Mechatronics  |         | • Mechanical Engineering |
| Professor                               | SAKAMOTO, Hiraku    | [Mechanical system field] Space Structures, Dynamics, Numerical Analysis  |         | • Mechanical Engineering |
| Professor                               | SHINSHI, Tadahiko   | [Mechanical system field] Mechanical Systems Using Magnetic Force, Magnetic MEMS, Ultrasonic Medical Instruments Artificial Heart   |         | • Mechanical Engineering |
| Professor                               | YANAGIDA, Yasuko    | [Mechanical system field] Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering  |         | • Mechanical Engineering |
| Specially Appointed Professor           | KOBAYASHI, Tsune    | [Mechanical system field] Analysis and Design of Mechanical Elements, Mechanisms for Automobiles  |         | • Mechanical Engineering |
| Specially Appointed Professor           | MOMOZONO, Satoshi   | Tribology, Machine Element, Precision Engineering, Surface and Interface, Rheology  |         | • Mechanical Engineering |
| Associate Professor                     | ISHIDA, Tadashi     | [Mechanical system field] Biomedical MEMS, Nanobiology  |         | • Mechanical Engineering |
| Associate Professor                     | NAKANO, Yutaka      | [Mechanical system field] Vibration Engineering   |         | • Mechanical Engineering |
| Associate Professor                     | NISHISAKO, Takashi  | [Mechanical system field] Nano/micro Fluid, Emulsion, Micro Chemistry, Bio chemistry, MEMS  |         | • Mechanical Engineering |
| Associate Professor                     | HIJIKATA, Wataru    | [Mechanical system field] Mechatronics, Medical Device, Wireless Power Transmission   |         | • Mechanical Engineering |
| Associate Professor                     | TAKAHASHI, Hideharu | [Mechanical system field] Smart Agricultural and Forestry Engineering, Remote Sensing, Zero-carbon Energy, Environmental Restoration and Utilization of Unused Resources  |         | • Mechanical Engineering |
| Specially Appointed Associate Professor | MATSUURA, Daisuke   | [Mechanical system field] Analysis and Design of Mechanical Elements, Robotics, Mechatronics, Visual Measurement, Visual Servo, Non-contact Manipulation, Welfare equipment   |         | • Mechanical Engineering |
| Associate Professor                     | CHUJO, Toshihiro    | [Mechanical system field] Astrodynamics, Trajectory design, Guidance, Navigation, and Control, Deep space mission design, Spacecraft system, Dynamics simulation  |         | • Mechanical Engineering |



| Academic Supervisor                     |                      | Research Field   | Remarks | Graduate Major           |
|---|----------------------|--|---------|--------------------------|
| Professor                               | ENDO, Gen            | [Mechanical system field] Robotics, Mechatronics, Mechanism Design   |         | • Mechanical Engineering |
| Professor                               | OKADA, Masafumi      | [Intelligent system field] Robotics, Control Engineering   |         | • Mechanical Engineering |
| Professor                               | SHINO, Motoki        | [Intelligent system field] Cooperative Assist and Control in Human-Machine Systems, Intelligent Mobility, Behavioral and Physiological Information based System Design, Comfort Design, Automated Driving Technology |         | • Mechanical Engineering |
| Professor                               | NISHIDA, Yoshifumi   | [Intelligent system field] Living Centric Design, Living Function Support, Artificial Intelligence, IoT  |         | • Mechanical Engineering |
| Professor                               | FURUKAWA, Katsuko S. | [Intelligent system field] Tissue Engineering, Mechanobiomechanics, 3D Fabrication, Artificial Organs, Organ Simulator   |         | • Mechanical Engineering |
| Professor                               | MAEDA, Shingo        | [Intelligent system field] Soft robotics, soft materials, soft actuators, soft sensors   |         | • Mechanical Engineering |
| Associate Professor                     | SUGAHARA, Yusuke     | [Intelligent system field] Mechanical Systems Design   |         | • Mechanical Engineering |
| Associate Professor                     | TAKAYAMA, Toshio     | [Intelligent system field] Robotics & Mechatronics, Mechanism, Soft robot, Medical device, Microfluidic device   |         | • Mechanical Engineering |
| Associate Professor                     | TANAKA, Hiroto       | [Intelligent system field] Biomimetics, Fluid dynamics of animal flight and swimming, Flapping-wing aerial/underwater robots, Micro fabrication  |         | • Mechanical Engineering |
| Associate Professor                     | MIURA, Satoshi       | [Intelligent system field] Human-Machine Interface, Brain-Machine Interface, Medical Robotics, Welfare Robotics, Surgical Robotics   |         | • Mechanical Engineering |
| Specially Appointed Associate Professor | ENDO, Mitsuru        | [Intelligent system field] Human Collaborative Robot, Light-weight Actuator, Mechatronics, Industrial Robot  |         | • Mechanical Engineering |
| Specially Appointed Associate Professor | YOSHITAKE, Hiroshi   | [Intelligent system field] Human factors, Behavioral data analysis and modeling, Human-machine system, Safe driving/traffic safety assistance design   |         | • Mechanical Engineering |

## (2) Dept. of Systems and Control Engineering

| Academic Supervisor |                      | Research Field  | Remarks | Graduate Major   |
|---------------------|----------------------|---|---------|--|
| Professor           | AMAYA, Kenji         | Inverse Problems, Computational Mechanics, Electrochemical Analysis, Optical Analysis   |         | • Systems and Control Engineering                                      |
| Professor           | IMURA, Jun-ichi      | Robot Intelligent Control, Control Theory Hybrid Systems Theory   |         | • Systems and Control Engineering                                      |
| Professor           | KURABAYASHI, Daisuke | Biorobotic systems, Distributed systems, Motion planning  |         | • Systems and Control Engineering                                      |
| Professor           | TANAKA, Masayuki     | Computational photography, Image processing   |         | • Engineering Sciences and Design<br>• Systems and Control Engineering |
| Professor           | TSUKAGOSHI, Hideyuki | Soft Robotics, Biomimetics, Fluid Powered Control, Medical Actuator   |         | • Systems and Control Engineering                                      |
| Professor           | NAKAO, Hiroya        | Nonlinear Dynamics, Stochastic Processes, Self-organization Phenomena   |         | • Systems and Control Engineering                                      |
| Professor           | NAKASHIMA, Motomu    | Sports Engineering, Biomechanics, Biorobotics, Musculoskeletal Analysis, Welfare Engineering  |         | • Systems and Control Engineering                                      |
| Professor           | NAKADAI, Kazuhiro    | Robot Audition, Computational Auditory Scene Analysis, Human-Machine Interaction  |         | • Systems and Control Engineering                                      |
| Professor           | HATANAKA, Takeshi    | Cyber-Physical & Human Systems, Cyber-Physical Campus Energy Management, Networked Mobility, Distributed Optimization, Learning and Games |         | • Systems and Control Engineering                                      |
| Associate Professor | ISHIZAKI, Takayuki   | Systems and Control Theory, Power Systems, Distributed Energy Management System, Optimization   |         | • Systems and Control Engineering                                      |

| Academic Supervisor                     |                    | Research Field   | Remarks   | Graduate Major  |
|---|--------------------|--|---|---|
| Associate Professor                     | KAWAKAMI, Rei      | Open world vision, Multimodal recognition, Physics-based vision, Vision for AR/VR  |   | • Systems and Control Engineering                     |
| Associate Professor                     | SATO, Susumu       | Environmental Load Reduction in Transportation System, Local roadside emission analysis with on-board emission measurement systems |   | • Systems and Control Engineering                     |
| Associate Professor                     | HAYAKAWA, Tomohisa | Control Theory, Dynamical Systems Theory, Smart Society, Game Theory   |   | • Systems and Control Engineering                     |
| Associate Professor                     | HARA, Seiichiro    | Surface profile sensing, measurement information processing / evaluation, machining information sensing, surface texture design    |   | • Systems and Control Engineering                     |
| Associate Professor                     | MIYAZAKI, Yusuke   | Biomechanics, Injury Preventive Engineering, Digital Human Modeling  |   | • Science and Technology for Health Care and Medicine |
| Associate Professor                     | YAMAKITA, Masaki   | Control Engineering, Robotics  | Prof. Yamakita will not be able to accept students after April 2025.  | • Systems and Control Engineering                     |
| Specialty Appointed Professor           | OKUTOMI, Masatoshi | Computer Vision, Image Processing  | Prof. Okutomi belongs mainly to a Collaborative Research Cluster with private companies and can accept only doctor course students under appropriate conditions. Please make contact with the admission chair of the department in advance. | • Systems and Control Engineering                     |
| Specialty Appointed Associate Professor | MONNO, Yusuke      | Image Processing, Computer Vision, Computational Imaging   | Associate Prof. Monno belongs mainly to a Collaborative Research Cluster with private companies. Please make contact with the admission chair of the department in advance.   | • Systems and Control Engineering                     |

### (3) Dept. of Electrical and Electronic Engineering

| Academic Supervisor |                     | Research Field   | Remarks | Graduate Major   |
|---------------------|---------------------|--|---------|--|
| Professor           | ITO, Hiroyuki       | Low Power CMOS Circuits, Internet of Medical Things, IoT in Agriculture  |         | • Electrical and Electronic Engineering  |
| Professor           | OKADA, Kenichi      | Wireless Circuit Design, 5G/6G, Millimeter-Wave/Terahertz Communication, IoT, Analog/Digital Circuit Design  |         | • Electrical and Electronic Engineering  |
| Associate Professor | SHIRANE, Atsushi    | Integrated Circuits, Wireless Communication, Wireless Power Transfer, Satellite Communication  |         | • Electrical and Electronic Engineering  |
| Professor           | TOKUDA, Takashi     | Microdevices and circuits for biomedical and IoT   |         | • Science and Technology for Health Care and Medicine<br>• Electrical and Electronic Engineering |
| Associate Professor | AOYAGI, Takahiro    | Electromagnetic Compatibility (EMC), Healthcare and Medical ICT, Wave Propagation, Microwave Measurement   |         | • Electrical and Electronic Engineering  |
| Associate Professor | AMEMIYA, Tomohiro   | Photonics informatics, Integrated photonics, Photonic nanostructure  |         | • Electrical and Electronic Engineering  |
| Professor           | SAKAGUCHI, Kei      | Wireless communications, 5G/6G, IoT, mmWave, Wireless power transmission, Connected car, Automated driving   |         | • Electrical and Electronic Engineering  |
| Associate Professor | TRAN, Gia Khanh     | Gbps-class wireless backbone network, Radio resource management using AI, IoT networks employing drones  |         | • Electrical and Electronic Engineering  |
| Associate Professor | SHOJI, Yuya         | Lightwave Circuits, Optical Communication  |         | • Electrical and Electronic Engineering  |
| Professor           | NISHIYAMA, Nobuhiko | Photonic Electronic Convergence Circuit, Semiconductor Lasers, Ultra high-speed transceiver and Measurement System using Photonic Integrated Circuit |         | • Electrical and Electronic Engineering  |

| Academic Supervisor                |                      | Research Field  | Remarks  | Graduate Major   |
|------------------------------------|----------------------|---|--|--|
| Professor                          | HIROKAWA, Jiro       | Millimeter-wave/Terahertz-wave planar antennas, Electromagnetic wave analysis                 |  | • Electrical and Electronic Engineering  |
| Assistant Professor (Tenure Track) | TOMURA, Takashi      | Satellite onboard antenna, wireless communication, large-scale electromagnetic analysis.      |  | • Electrical and Electronic Engineering  |
| Associate Professor                | MIYAMOTO, Tomoyuki   | Optical wireless power transmission, Optical devices and functional modules                   |  | • Electrical and Electronic Engineering  |
| Associate Professor                | OHMI, Shun-ichiro    | Semiconductor Devices   |  | • Electrical and Electronic Engineering  |
| Associate Professor                | KAKUSHIMA, Kuniyuki  | Semiconductor memory, process, devices  |  | • Electrical and Electronic Engineering  |
| Associate Professor                | KODERA, Tetsuo       | Quantum computing technology, Quantum Information devices, Nano quantum electronics           |  | • Electrical and Electronic Engineering • Energy Science   |
| Professor                          | SUZUKI, Safumi       | Terahertz Devices, THz 3D Imaging, THz Biosensing   |  | • Electrical and Electronic Engineering  |
| Professor                          | IWASAKI, Takayuki    | Diamond Quantum Sensor, Solid-state Quantum Emitter for Quantum Communication, Diamond Device |  | • Electrical and Electronic Engineering<br>• Energy Science and Informatics                      |
| Professor                          | WAKABAYASHI, Hitoshi | Semiconductor Devices, Nano-electronics, LSI  |  | • Electrical and Electronic Engineering  |
| Associate Professor                | ARAI, Keigo          | Quantum Metrology, Quantum Sensing & Imaging, Quantum Information, Artificial Intelligence    |  | • Electrical and Electronic Engineering  |
| Associate Professor                | IINO, Hiroaki        | Organic Electronics, TFT, Imaging Devices   |  | • Electrical and Electronic Engineering  |
| Associate Professor                | SUGAHARA, Satoshi    | Integrated Devices and Circuits   |  | • Electrical and Electronic Engineering  |
| Associate Professor                | TOMA, Mana           | Plasmonics and biosensors for mobile health   |  | • Electrical and Electronic Engineering  |
| Professor                          | PHAM, Nam Hai        | Semiconductor/metal spintronics, Ferromagnetic semiconductor, Topological insulator           |  | • Electrical and Electronic Engineering  |
| Professor                          | MANAKA, Takaaki      | Organic and Polymer Electronics, Organic Devices, Nonlinear Optics                            |  | • Electrical and Electronic Engineering  |
| Associate Professor                | TAGUCHI, Dai         | Dielectric physics, Organic electronics, Nonlinear Optics                                     |  | • Electrical and Electronic Engineering  |
| Associate Professor                | MIYAJIMA, Shinsuke   | Photovoltaic materials and devices  |  | • Energy Science and Informatics • Electrical and Electro  |
| Professor                          | YAMADA, Akira        | Semiconductor Physics, Solar Cells, Compound Thin-Film Solar Cells                            |  | • Energy Science and Informatics<br>• Electrical and Electronic Engineering                      |
| Associate Professor                | OKINO, Akitoshi      | Atmospheric Plasma Engineering, Spectrochemistry, Plasma Medicine                             |  | • Science and Technology for Health Care and Medicine<br>• Electrical and Electronic Engineering |
| Associate Professor                | KAWABE, Kenichi      | Power system engineering, Renewable energy sources  |  | • Electrical and Electronic Engineering<br>• Energy Science and Informatics                      |
| Associate Professor                | TAKEUCHI, Nozomi     | Plasma Engineering, Electrostatics, High Voltage Engineering                                  |  | • Electrical and Electronic Engineering<br>• Energy Science and Informatics                      |
| Professor                          | CHIBA, Akira         | Electric Machine, Magnetic Suspension   | indicates person who will retire in March, 2026. | • Electrical and Electronic Engineering<br>• Energy Science and Informatics                      |
| Associate Professor                | KIYOTA, Kyohei       | Electric Machines, motor, generator, magnetic suspension                                      |  | • Energy Science and Informatics<br>• Electrical and Electronic Engineering                      |
| Associate Professor                | HAGIWARA, Makoto     | Power Electronics, Smart Grid, Renewable Energy   |  | • Energy Science and Informatics<br>• Electrical and Electronic Engineering                      |
| Professor                          | FUJITA, Hideaki      | Power Electronics, Electrical Machinery   |  | • Electrical and Electronic Engineering<br>• Energy Science and Informatics                      |
| Assistant Professor (Tenure Track) | SANO, Kenichiro      | Power Electronics, High voltage dc transmission   |  | • Electrical and Electronic Engineering<br>• Energy Science and Informatics                      |

| Academic Supervisor |  | Research Field | Remarks | Graduate Major |
|---------------------|--|----------------|---------|----------------|
|---------------------|--|----------------|---------|----------------|

**(4) Dept. of Information and Communications Engineering**

| Academic Supervisor |                       | Research Field  | Remarks | Graduate Major   |
|---------------------|-----------------------|---|---------|--|
| Associate Professor | ISLAM, Mahfuzul       | Neuromorphic hardware, Low-power sensor, Power converter, Data converter, Spintronics application   |         | • Information and Communications Engineering   |
| Professor           | ISSHIKI, Tsuyoshi     | System-LSI Design Methodology, Embedded Processor Design  |         | • Information and Communications Engineering   |
| Professor           | OKUMURA, Manabu       | Natural Language Processing, Text Summarization, Text Mining, Sentiment Analysis  |         | • Information and Communications Engineering   |
| Associate Professor | OBI, Takashi          | Medical Informatics, Medical Image Processing, Information Security, Secure System  |         | • Information and Communications Engineering<br>• Science and Technology for Health Care and Medicine                                      |
| Associate Professor | SASAKI, Hiroshi       | Computer Architecture, Computer Security, Computer Systems, Internet of Things (IoT), Workload Characterization                                       |         | • Information and Communications Engineering   |
| Professor           | SHINOZAKI, Takahiro   | Speech Understanding, Dialogue System, Reinforcement Learning, Machine Learning   |         | • Information and Communications Engineering<br>• Human Centered Science and Biomedical Engineering  |
| Professor           | SUZUKI, Kenji         | Deep Learning, Machine Learning, Computer-aided Diagnosis, Medical Imaging, Artificial Intelligence, Biomedical Image Understanding.                  |         | • Science and Technology for Health Care and Medicine<br>• Information and Communications Engineering                                      |
| Professor           | SLAVAKIS Konstantinos | Signal Processing, Machine Learning, Data Analytics   |         | • Science and Technology for Health Care and Medicine<br>• Information and Communications Engineering                                      |
| Associate Professor | TABARU, Marie         | Biomedical Engineering Measurement, Agricultural Engineering Measurement, Acoustic Engineering  |         | • Information and Communications Engineering   |
| Associate Professor | NAGAI, Takehiro       | Color Science and Technology, Material Perception Science, Visual Psychophysics   |         | • Science and Technology for Health Care and Medicine<br>• Information and Communications Engineering                                      |
| Associate Professor | NAKATANI, Momoko      | Human Computer Interaction, Service Design, Communication Enhancement, Well-being   |         | • Engineering Sciences and Design  |
| Associate Professor | NISHIO, Takayuki      | Wireless Networks, Application of Machine Learning, Federated Learning, Ambient Sensing, Multi-modal System, Resource Coordination                    |         | • Information and Communications Engineering   |
| Associate Professor | HASEGAWA, Shoichi     | Virtual Reality, Physics Engine, Haptics, Character motion, Interaction   |         | • Information and Communications Engineering<br>• Engineering Sciences and Design  |
| Associate Professor | HARA, Yuko            | Low-Energy Embedded Systems, Internet of Things (IoT), Hardware/Software Co-design, Hardware Security   |         | • Information and Communications Engineering   |
| Professor           | FUKAWA, Kazuhiko      | Wireless Communications, Wireless Communication Networks, Intelligent Signal Processing, Adaptive Filter Theory                                       |         | • Information and Communications Engineering   |
| Associate Professor | FUJIKI, Daichi        | Computer Architecture, Computer System, Domain-Specific Architecture (DNN, Genomics, Privacy Preserved Databases), Memory-Centric Computing (PIM/CIM) |         | • Information and Communications Engineering   |
| Associate Professor | FUNAKOSHI, Kotaro     | Natural Language Processing, Multimodal Dialogue System, Human-Machine Interaction  |         | • Information and Communications Engineering<br>• Science and Technology for Health Care and Medicine<br>• Engineering Sciences and Design |
| Associate Professor | MIYATA, Sumiko        | Information and Communication Network, Information Security, IoT, Non-Terrestrial Network, IoT Network  |         | • Information and Communications Engineering   |
| Associate Professor | WATANABE, Yoshihiro   | Computer Vision, Augmented Reality, Digital Archiving, Human-computer Interaction   |         | • Information and Communications Engineering   |

**(5) Dept. of Industrial Engineering and Economics**

| Academic Supervisor |                   | Research Field   | Remarks | Graduate Major  |
|---------------------|-------------------|--|---------|---|
| Professor           | ICHISE, Ryutaro   | Artificial Intelligence, Machine Learning, Semantic Web, Data Mining |         | • Industrial Engineering and Economics                                      |
| Professor           | UMEMURO, Hiroyuki | Affect and Emotion, Gerontechnology, Human Factors                   |         | • Industrial Engineering and Economics                                      |
| Professor           | SHIOURA, Akiyoshi | Discrete Optimization, Operations Research, Algorithm Theory         |         | • Industrial Engineering and Economics                                      |
| Professor           | SENOO, Dai        | Knowledge Management, Leadership                                     |         | • Industrial Engineering and Economics<br>• Engineering Sciences and Design |
| Professor           | NAKATA, Kazuhide  | Operations Research, Continuous Optimization, Machine Learning       |         | • Industrial Engineering and Economics                                      |

| Academic Supervisor          |                  | Research Field  | Remarks               | Graduate Major                         |
|------------------------------|------------------|---|-----------------------|--|
| Professor                    | MATSUI, Tomomi   | Optimization Theory, Combinatorics, Operations Research                   |                       | • Industrial Engineering and Economics |
| Professor                    | YAMATO, Takehiko | Microeconomic Theory, Experimental Economics                              |                       | • Industrial Engineering and Economics |
| Associate Professor          | INOUE, Yuki      | Innovation Management, Strategic Management, Platform, Business Ecosystem |                       | • Industrial Engineering and Economics |
| Associate Professor          | UOZUMI, Ryuji    | Biostatistics, Applied Statistics, Medical Research, Data Science         |                       | • Industrial Engineering and Economics |
| Associate Professor          | OGASAWARA, Kota  | Econometrics, Economic History  |                       | • Industrial Engineering and Economics |
| Associate Professor          | KAWASAKI, Ryo    | Mathematical Economics, Game Theory                                       |                       | • Industrial Engineering and Economics |
| Associate Professor          | GU, Xiuzhu       | Healthcare management, Safety engineering, Human factors                  |                       | • Industrial Engineering and Economics |
| Associate Professor          | SEABORN Katie    | Human-Computer Interaction, Inclusive Design, Game UX                     |                       | • Industrial Engineering and Economics |
| Professor                    | NAGATA, Kyoko    | Financial Reporting, Company Analysis, Corporate Governance               |                       | • Industrial Engineering and Economics |
| Associate Professor          | FUKUDA, Emiko    | Industrial Economics, Game Theory   |                       | • Industrial Engineering and Economics |
| Associate Professor          | HORI, Takeo      | Dynamic Macroeconomics, Economic Growth                                   |                       | • Industrial Engineering and Economics |
| Associate Professor          | MORITA, Hiroshi  | Macroeconomics, Time series analysis                                      |                       | • Industrial Engineering and Economics |
| Visiting Professor           | MASUI, Toshihiko | Environmental Economic Modeling   | Supporting supervisor | • Industrial Engineering and Economics |
| Visiting Associate Professor | KANAMORI, Yuko   | Environmental Economic Modeling   | Supporting supervisor | • Industrial Engineering and Economics |

**A3 Advanced Human Resource Education Program for Emerging Materials Innovations to Solve Social Issues (eMAT-SOC)**
**(1) Dept. of Materials Science and Engineering**

|                     | Academic Supervisor  | Research Field   | Remarks  | Graduate Major   |
|---------------------|----------------------|--|--|--|
| Professor           | AZUMA, Masaki        | Solid State Chemistry  |  | • Materials Science and Engineering  |
| Professor           | IKOMA, Toshiyuki     | Bioceramics, Biosensing, Nanomedicine, Tissue Engineering  |  | • Science and Technology for Health Care and Medicine<br>• Materials Science and Engineering |
| Professor           | INAMURA, Tomonari    | Martensitic Transformation, Kink Deformation, Geometry of Microstructure   |  | • Materials Science and Engineering<br>• Energy Science and Informatics                      |
| Professor           | OBA, Fumiyasu        | Computational Design of Electronic and Energy Materials  |  | • Materials Science and Engineering  |
| Professor           | KAMATA, Keigo        | Catalytic Chemistry, Environment-Friendly Chemical Process   |  | • Materials Science and Engineering<br>• Energy Science and Informatics                      |
| Professor           | KAMIYA, Toshio       | Semiconductors, Optoelectronic Devices, Computer simulation  |  | • Materials Science and Engineering  |
| Professor           | KOJIMA, Chie         | Biomaterials, Biopolymer Chemistry, Dendrimer, Nanomedicine  | indicates person who will retire in March, 2029. | • Materials Science and Engineering  |
| Professor           | KOBAYASHI, Yoshinao  | Metal Refining and Recycling, Safety Metallurgy for Nuclear Reactors, Phase Stability, Degradation of Materials in Reactors, Waste Management                |  | • Materials Science and Engineering<br>• Science and Technology for Health Care and Medicine |
| Professor           | SONE, Masato         | Metallic Material Design for Medical Device and the Evaluation Methodology, Hybrid Materials for Wearable Device, High Sensitive Sensor Material             |  | • Nuclear Engineering<br>• Materials Science and Engineering                                 |
| Professor           | TADA, Eiji           | Materials Electrochemistry, Corrosion and Protection, Corrosion Monitoring and Simulation, Surface Treatment   |  | • Science and Technology for Health Care and Medicine<br>• Materials Science and Engineering |
| Professor           | TSUGE, Takeharu      | Biodegradable Plastics   |  | • Materials Science and Engineering  |
| Professor           | NAKADA, Nobuo        | Microstructure and Mechanical Properties of Iron and Steels  |  | • Science and Technology for Health Care and Medicine  |
| Professor           | HAYAKAWA, Teruaki    | Polymer Synthesis, Polymer Thin Films, Self-Organizing Organic and Polymeric Materials   |  | • Materials Science and Engineering  |
| Professor           | HAYASHI, Miyuki      | Physicochemical Properties of Materials, High Temperature Process Control  |  | • Materials Science and Engineering  |
| Professor           | HIRAMATSU, Hidenori  | Semiconductors, Thin film growth, Optoelectronic properties, Devices   |  | • Energy Science and Informatics<br>• Materials Science and Engineering                      |
| Professor           | MATSUSHITA, Nobuhiro | Novel Material Processes for Bio/Electronics/Environmental and Energy Applications (DDS, Biosensors, Noise suppressors, Photocatalysts, Fuel cells)          | indicates person who will retire in March, 2030. | • Materials Science and Engineering<br>• Energy Science and Informatics                      |
| Professor           | MATSUMOTO, Hidetoshi | Polymer Physics, Physical Chemistry of Organic Materials, Polymer Membranes and Thin Films, Energy and Environmental Materials, Nanofibers and Nanomaterials |  | • Materials Science and Engineering  |
| Professor           | MICHINOBU, Tsuyoshi  | Polymer Synthesis, Semiconducting Polymers, Biomass Polymers   | indicates person who will retire in March, 2030. | • Materials Science and Engineering  |
| Professor           | MIYAUCHI, Masahiro   | Photocatalysis, Artificial Photosynthesis, Green House Gas Conversion, Hydrogen Carrier, Chemical Synthesis of Nanoparticles                                 |  | • Materials Science and Engineering  |
| Professor           | MURAISHI, Shinji     | Aluminum Alloys, Microstructure and Mechanical Properties, Upgrade Recycling, Dislocation Dynamics Simulation  |  | • Energy Science and Informatics<br>• Materials Science and Engineering                      |
| Professor           | YOKOTA, Hiroko       | Nonlinear optical microscopy, Local structural analysis, Evaluation of new functionalities at topological defects  |  | • Materials Science and Engineering  |
| Professor           | YOSHIDA, Katsumi     | Severe environment resistant materials, Materials for nuclear and fusion applications, Ceramic-based composites, High performance porous ceramics            |  | • Energy Science and Informatics<br>• Materials Science and Engineering                      |
| Associate Professor | ANRAKU, Yasutaka     | Biomaterials, Nanoparticles, Drug Delivery Systems   |  | • Energy Science and Informatics<br>• Materials Science and Engineering                      |
| Associate Professor | IZAWA, Seiichiro     | Organic Optoelectronic Materials, Organic Semiconductors, Organic Solar Cells, Organic Light-Emitting Diodes   |  | • Materials Science and Engineering  |
| Associate Professor | ISHIKAWA, Satoshi    | Heterogeneous Catalyst, Selective Oxidation, Acid-Base Reaction  |  | • Nuclear Engineering  |
| Associate Professor | ISOBE, Toshihiro     | Environmental Ceramics, Porous ceramics, Membrane, Functional ceramics   |  | • Materials Science and Engineering  |

| Academic Supervisor                |                     | Research Field   | Remarks | Graduate Major   |
|------------------------------------|---------------------|--|---------|--|
| Associate Professor                | OOI, Azusa          | Energy materials, Biomaterials, Structural materials, Electrochemistry, Corrosion science, Environmental degradation of materials, Development of the new material degradation evaluation method |         | • Materials Science and Engineering  |
| Associate Professor                | KATASE, Takayoshi   | Oxide electronics, Energy materials, Thin film device  |         | • Materials Science and Engineering  |
| Associate Professor                | KANEKO, Satoshi     | Nano-Physical Chemistry, Single-Molecule Science, Single-Molecule Spectroscopy, Molecular Electronics  |         | • Materials Science and Engineering  |
| Associate Professor                | KAWAMURA, Kenichi   | Fuel Cells, Heat-resisting Alloys, Solid State Ionics, High Temperature Physical Chemistry, Electrochemistry   |         | • Science and Technology for Health Care and Medicine<br>• Materials Science and Engineering                                     |
| Associate Professor                | KISHI, Tetsuo       | optical materials, glass materials, optical devices, laser process, adhesion science   |         | • Materials Science and Engineering  |
| Associate Professor                | Chiu,Wan-Ting       | Composite materials, Surface and interface, Materials design, Electrochemistry, Finite element method  |         | • Materials Science and Engineering  |
| Associate Professor                | GOHDA, Yoshihiro    | Electron Theory of Magnetic Materials, Heat-Resistant Alloys, and Nano-Interfaces  |         | • Materials Science and Engineering  |
| Associate Professor                | KOBAYASHI, Satoru   | Heat resistant steels and alloys for energy and transportation, Microstructural control and design, Intermetallics, Creep, High temperature hydrogen damage, Additive manufacturing              |         | • Materials Science and Engineering  |
| Associate Professor                | SAGARA, Yoshimitsu  | Organic Supramolecules, Stimuli-responsive Luminescent Materials, Mechanophore   |         | • Materials Science and Engineering  |
| Associate Professor                | SASAGAWA, Takao     | Strongly Correlated Electron Systems   |         | • Materials Science and Engineering  |
| Associate Professor                | SANNOMIYA, Takumi   | Nanophotonics, Plasmonic Materials, Nano Materials, Electron Microscopy, Cathodoluminescence   |         | • Materials Science and Engineering  |
| Associate Professor                | TAHARA, Masaki      | Development of Functional Metallic Materials by Structural Phase Transition, Metallic Materials for Medical and Energy Applications, Metal 3D Printing   |         | • Materials Science and Engineering  |
| Associate Professor                | CHEN, Chun-Yi       | Materials Electrochemistry, Hetero-Nanostructures, Functional Energy Conversion Materials  |         | • Materials Science and Engineering<br>• Energy Science and Informatics  |
| Associate Professor                | CHANG, Tso-Fu Mark  | Electrodeposition, Metal-based Catalyst, Metal/Metal Oxide Composite Photocatalyst, Metal/Polymer Flexible Functional Materials  |         | • Materials Science and Engineering<br>• Science and Technology for Health Care and Medicine<br>• Energy Science and Informatics |
| Associate Professor                | NAKATSUJI, Kan      | Surface and Interface Physics  |         | • Materials Science and Engineering<br>• Science and Technology for Health Care and Medicine                                     |
| Associate Professor                | NABAE, Yuta         | Organic and polymeric materials for catalysis, electrocatalysts for fuel cells, synthesis of aromatic polymers   |         | • Materials Science and Engineering  |
| Associate Professor                | HAYASHI, Tomohiro   | Nanobio science, Biointerface & Biomaterials, Materials Informatics  |         | • Science and Technology for Health Care and Medicine<br>• Materials Science and Engineering                                     |
| Associate Professor                | HAYAMIZU, Yuhei     | Bio-interface, Nano Materials  |         | • Materials Science and Engineering  |
| Associate Professor                | HARUMOTO, Takashi   | Materials for Hydrogen-based Society (Hydrogen Storage Alloys, Hydrogen Sensing Materials), Phase Change Materials, Magnetic Thin Films  |         | • Energy Science and Informatics<br>• Materials Science and Engineering  |
| Associate Professor                | HOSHINA, Takuya     | Dielectric and Ferroelectric Materials, Phonon Analysis  |         | • Science and Technology for Health Care and Medicine  |
| Associate Professor                | MATSUSHITA, Sachiko | Thermal Energy Conversion, Semiconductor-Sensitized Thermal Cell, Renewable Energy (Electrochemistry, Materials Chemistry)   |         | • Materials Science and Engineering<br>• Science and Technology for Health Care and Medicine                                     |
| Associate Professor                | MATSUDA, Akifumi    | Nanomaterials for electronic and energy, Epitaxial thin films and nanostructures, Low-temperature nanomaterials synthesis, Highly-oriented flexible devices                                      |         | • Materials Science and Engineering  |
| Associate Professor                | YAMAMOTO, Takafumi  | Solid state chemistry, functional inorganic materials (magnetism, superconductivity, photofunctionality, catalytic property, etc)  |         | • Materials Science and Engineering  |
| Associate Professor                | LEI, Xiao-Wen       | Computational Materials Science, Function Design of Nanoscale Systems, Mathematical Science of Lattice Defect  |         | • Materials Science and Engineering<br>• Energy Science and Informatics  |
| Associate Professor                | YASUI, Shintaro     | Development of Emerging Functional Materials (Li-ion Battery, Energy Materials, Ferroelectrics, Piezoelectrics, Multiferroics)   |         | • Energy Science and Informatics<br>• Materials Science and Engineering  |
| Associate Professor                | YANAKA, Saeko       | Biomolecules, Biomolecule Engineering, Nuclear Magnetic Resonance  |         | • Materials Science and Engineering<br>• Science and Technology for Health Care and Medicine                                     |
| Assistant Professor (Tenure Track) | Omagari, Shun       | Functional Organic Material, Functional Nanomaterial, Single-molecule Spectroscopy, Computational Chemistry  |         | • Materials Science and Engineering  |
| Assistant Professor (Tenure Track) | YAMAGUCHI, Akira    | electrocatalysts, hydrothermal electrochemistry  |         | • Energy Science and Informatics<br>• Materials Science and Engineering  |

| Academic Supervisor | Research Field | Remarks | Graduate Major |
|---------------------|----------------|---------|----------------|
|---------------------|----------------|---------|----------------|

(2) Dept. of Chemical Science and Engineering

| Academic Supervisor | Research Field      | Remarks   | Graduate Major   |
|---------------------|---------------------|---|--|
| Professor           | ISHIZONE, Takashi   | Polymer Synthesis, Living Polymerization  | • Chemical Science and Engineering   |
| Professor           | OTSUKA, Hideyuki    | Polymer Reactions, Smart Polymeric Materials, Polymer Synthesis   | • Chemical Science and Engineering   |
| Professor           | SATOH, Kotaro       | Polymer Synthesis, Precision Polymerization, Bio-Based Monomer  | • Chemical Science and Engineering<br>• Energy Science and Informatics   |
| Professor           | TANAKA, Katsunori   | Synthetic Organic Chemistry, Bioorganic Chemistry, Chemical Biology   | • Science and Technology for Health Care and Medicine<br>• Chemical Science and Engineering                    |
| Professor           | TANAKA, Ken         | Synthetic Organic Chemistry, Asymmetric Synthesis, Organometallic Chemistry   | • Chemical Science and Engineering   |
| Professor           | NAKAJIMA, Yumiko    | Organometallic Chemistry, Coordination Chemistry, Silicon Chemistry, Catalyst Chemistry, Hybrid Materials   | • Chemical Science and Engineering   |
| Associate Professor | ITO, Shigekazu      | Physical Organic Chemistry, Organic Synthesis, Main Group Chemistry, Muon Science   | • Chemical Science and Engineering   |
| Associate Professor | KONISHI, Gen-ichi   | Polymer Synthesis, Photochemistry, Fluorescent Dye, Liquid Crystal, Organic Chemistry   | • Chemical Science and Engineering   |
| Professor           | OKOCHI, Mina        | Biochemical Engineering, Peptide Engineering, Biosensing, Biotechnology, Medical and Biological Engineering   | • Science and Technology for Health Care and Medicine<br>• Chemical Science and Engineering                    |
| Professor           | OHTOMO, Akira       | Inorganic Solid State Chemistry, Thin Film, Surface and Interface, Device Physics   | • Chemical Science and Engineering   |
| Professor           | SERIZAWA, Takeshi   | Biomacromolecular Chemistry, Biomaterials Science and Engineering, Molecular Assembly   | • Chemical Science and Engineering   |
| Professor           | TSUKAHARA, Takehiko | Analytical Chemistry, Radiation Chemistry, Environmental Science, Organic-inorganic hybrid material, Micro-Nano Chemistry, Radioactive Waste Management, Nuclear Fuel Cycle | • Nuclear Engineering  |
| Professor           | TOKITA, Masatoshi   | Polymer Structures and Properties, Liquid Crystals, Polymer Brushes   | • Chemical Science and Engineering   |
| Professor           | NAKAJIMA, Ken       | Polymer Physics, Rubber Industry, Atomic Force Microscopy   | • Chemical Science and Engineering   |
| Professor           | MURAHASHI, Tetsuro  | Synthetic Inorganic and Organometallic Chemistry, Coordination Chemistry  | • Chemical Science and Engineering   |
| Associate Professor | ISHIGE, Ryohei      | Structural analysis of polymers, thin film, synchrotron X-ray, vibrational spectroscopy, liquid crystal   | • Chemical Science and Engineering   |
| Associate Professor | SAWADA, Toshiki     | Biomacromolecular Science, Bioorganic Chemistry, Biotechnology, Biofunctional Materials   | • Chemical Science and Engineering   |
| Associate Professor | TAKAO, Koichiro     | Actinide Chemistry, Coordination Chemistry, Nuclear Fuel Cycle, Fuel Reprocessing, Radioactive Wastes, Decontamination  | • Nuclear Engineering<br>• Chemical Science and Engineering  |
| Associate Professor | TAKAO, Toshiro      | Organometallic Chemistry, Inorganic Chemistry   | • Chemical Science and Engineering   |
| Associate Professor | YOSHIMATSU, Kohei   | Solid-state chemistry, Thin films, Electron spectroscopy, Computational materials science   | • Chemical Science and Engineering   |
| Associate Professor | LIANG, Xiaobin      | Polymer physics, Nanostructure science, Nano composite materials/physical properties  | • Chemical Science and Engineering   |
| Professor           | IHARA, Manabu       | Energy Conversion on Chemical Engineering, Electrochemistry, Fuel Cells, Solar Cells, Energy system   | • Energy Science and Informatics<br>• Chemical Science and Engineering   |
| Professor           | SHIMOYAMA, Yusuke   | Molecular crystal & assembly, Pharmaceutical • cosmetic formulation, CO2 utilization, Machine-learning, Information & data technology                                       | • Chemical Science and Engineering<br>• Materials and Information Sciences<br>• Energy Science and Informatics |
| Professor           | TAGO, Teruoki       | Chemical Reaction Engineering, Catalytic Reaction Engineering, Catalyst & Environmental Chemical Process, Porous Catalyst   | • Chemical Science and Engineering<br>• Energy Science and Informatics   |
| Professor           | NAKAMURA, Ryuhei    | Origin of life, Earth-life science, Electrocatalysis  | • Chemical Science and Engineering   |
| Associate Professor | AOKI, Saiko         | Tribology, Lubricating oil and additives, Surface Engineering, Affective Engineering  | • Chemical Science and Engineering<br>• Energy Science and Informatics   |



| Academic Supervisor |                     | Research Field   | Remarks | Graduate Major  |
|---------------------|---------------------|--|---------|---|
| Associate Professor | HARADA, Takuya      | Carbon Capture & Utilization, Inorganic Materials, Chemical Process Engineering, Low-carbon Energy System, Nuclear Energy        |         | <ul style="list-style-type: none"> <li>• Nuclear Engineering</li> <li>• Chemical Science and Engineering</li> </ul>   |
| Professor           | MATSUMOTO, Hideyuki | Process Systems Engineering, Process Intensification, Process Informatics, Nitrogen Cycle, Carbon Recycling, Renewable Energy    |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> <li>• Energy Science and Informatics</li> <li>• Materials and Information Sciences</li> </ul>                  |
| Associate Professor | MANZHOS, Sergei     | Materials modeling, machine learning, energy conversion and storage  |         | <ul style="list-style-type: none"> <li>• Energy Science and Informatics</li> <li>• Chemical Science and Engineering</li> </ul>  |
| Associate Professor | MORI, Shinsuke      | Plasma Processing, Heat Transfer   |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> <li>• Energy Science and Informatics</li> </ul>  |
| Professor           | INAGI, Shinsuke     | Organic Electrochemistry, Polymer Chemistry  |         | <ul style="list-style-type: none"> <li>• Energy Science and Informatics</li> <li>• Chemical Science and Engineering</li> </ul>  |
| Professor           | OKAMOTO, Toshihiro  | Synthetic Organic Chemistry, Organic/Polymer Materials Chemistry, Organic Electronics  |         | <ul style="list-style-type: none"> <li>• Energy Science and Informatics</li> <li>• Chemical Science and Engineering</li> </ul>  |
| Professor           | TOMITA, Ikuyoshi    | Polymer Synthetic Chemistry  |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> <li>• Energy Science and Informatics</li> </ul>  |
| Professor           | FUKUSHIMA, Takanori | Organic Functional Materials, Nanomaterials, $\pi$ -Electronic Systems, Molecular Assembly                                       |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> </ul>  |
| Professor           | YOSHIZAWA, Michito  | Supramolecular Chemistry, Synthetic Chemistry, Nanospace, Water, Photofunction, Biosensor  |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> </ul>  |
| Associate Professor | SAWADA, Tomohisa    | Supramolecular Chemistry, Organic Chemistry, Coordination Chemistry, Self-Assembly, Peptide, Topology                            |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> </ul>  |
| Associate Professor | SHOJI, Yoshiaki     | Functional $\pi$ -Conjugated Molecules and Polymers, Highly Reactive Main-Group Species  |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> </ul>  |
| Associate Professor | NAKAZONO, Kazuko    | Polymer synthesis, Supramolecular Chemistry  |         | <ul style="list-style-type: none"> <li>• Energy Science and Informatics</li> <li>• Chemical Science and Engineering</li> </ul>  |
| Professor           | SHISHIDO, Atsushi   | Polymer Physical Chemistry, Liquid Crystals, Optical Function, Mechanical Function   |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> <li>• Energy Science and Informatics</li> </ul>  |
| Professor           | YAMAMOTO, Kimihisa  | Nano-materials Chemistry, Metallochemistry, Macromolecular Science   |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> </ul>  |
| Associate Professor | IMAOKA, Takane      | $\pi$ -Conjugating Molecular Chemistry, Electron Transfer Chemistry, Nanomaterial Science  |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> </ul>  |
| Associate Professor | KUBO, Shoichi       | Polymer Chemistry, Materials Chemistry   |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> <li>• Energy Science and Informatics</li> </ul>  |
| Associate Professor | TANAKA, Masayoshi   | Biomolecular Chemistry, Protein Engineering, Applied Microbiology, Multi-Omics Science, Medical and Biological Engineering       |         | <ul style="list-style-type: none"> <li>• Science and Technology for Health Care and Medicine</li> <li>• Chemical Science and Engineering</li> </ul>   |
| Professor           | ARAI, Hajime        | Secondary battery, Metal-air battery, Electrochemistry, Operando (In situ) analysis  |         | <ul style="list-style-type: none"> <li>• Energy Science and Informatics</li> <li>• Chemical Science and Engineering</li> </ul>  |
| Professor           | TATEYAMA, Yoshitaka | Computational Materials Science, Electrochemistry, Interface Science, Ionics, Battery&Cell, Catalyst                             |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> </ul>  |
| Professor           | HIRAYAMA, Masaaki   | Energy Conversion Materials, Inorganic and Solid State Chemistry, Electrochemical Interface Design                               |         | <ul style="list-style-type: none"> <li>• Energy Science and Informatics</li> <li>• Chemical Science and Engineering</li> </ul>  |
| Professor           | YAMAGUCHI, Takeo    | Water Electrolysis and Fuel Cell Engineering, Bio-inspired Materials, Membrane Science and Engineering                           |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> <li>• Energy Science and Informatics</li> </ul>  |
| Associate Professor | ANDO, Yasunobu      | Computational Materials Science, Materials Informatics, Surface&Interface Science, Battery&Cell, Research Digital Transformation |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> </ul>  |
| Associate Professor | KUROKI, Hidenori    | Materials and Devices for Energy Conversion, Nanostructured Materials, Electrocatalysts, Functionalized Membranes                |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> </ul>  |
| Associate Professor | SUZUKI, Kota        | Solid State Chemistry, Energy Conversion Materials, Novel Energy Storage Device, and Material Search by Machine Learning         |         | <ul style="list-style-type: none"> <li>• Energy Science and Informatics</li> <li>• Chemical Science and Engineering</li> </ul>  |
| Associate Professor | TOYODA, Sakae       | Environmental Chemistry, Material Cycle Analysis   |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> <li>• Energy Science and Informatics</li> </ul>  |
| Associate Professor | YAMADA, Keita       | Organic Geochemistry, Isotope Chemistry  |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> <li>• Energy Science and Informatics</li> </ul>  |
| Associate Professor | YOKOI, Toshiyuki    | Catalytic Chemistry, Nanospace Catalysts, Zeolite Science, Green Chemistry   |         | <ul style="list-style-type: none"> <li>• Chemical Science and Engineering</li> </ul>  |
| Associate Professor | WADA, Hiroyuki      | Photovoltaics, Solar cell, Cancer therapy, Nanomaterial  |         | <ul style="list-style-type: none"> <li>• Energy Science and Informatics</li> <li>• Science and Technology for Health Care and Medicine</li> <li>• Chemical Science and Engineering</li> </ul> |

## (1) Dept. of Life Science and Engineering

| Academic Supervisor |                   | Research Field  | Remarks | Graduate Major   |
|---------------------|-------------------|---|---------|--|
| Professor           | IGARASHI, Ryuji   | Life Science Methodology, Single-Cell/Molecule Measurement, Ultra-Early Diagnosis, Nitrogen-Vacancy Center, Nanodiamond Quantum Sensor, Quantum Sensing |         | • Life Science and Technology  |
| Professor           | ISHII, Yoshitaka  | Physical Chemistry, Structural Biology, Alzheimer's Disease   |         | • Life Science and Technology  |
| Professor           | ITOH, Takehiko    | Bioinformatics  |         | • Life Science and Technology  |
| Professor           | UENO, Takafumi    | Bioinorganic Chemistry, Biophysical Chemistry, Biosupramolecular Chemistry  |         | • Life Science and Technology  |
| Professor           | OSAKABE, Yuriko   | Genetic Engineering and Genome Editing, Molecular Biology (Applications for medicine and molecular breeding)  |         | • Life Science and Technology  |
| Professor           | KANO, Fumi        | Cell Biology, Cell Editing, Bioimaging, Image Analysis  |         | • Life Science and Technology  |
| Professor           | KAMACHI, Toshiaki | Bioinorganic Chemistry, Cellular Imaging of Oxygen  |         | • Life Science and Technology<br>• Science and Technology for Health Care and Medicine |
| Professor           | KAMIYA, Mako      | Chemical Biology  |         | • Life Science and Technology  |
| Professor           | KAWAI, Kiyohiko   | Bioorganic Chemistry, Photochemistry, Nucleic Acid Chemistry, Single Molecule Analysis and Diagnosis (Pathological diagnosis)                           |         | • Life Science and Technology  |
| Professor           | KITAO, Akio       | Computational Biology, Biophysics, Computational Chemistry, Protein Dynamics  |         | • Life Science and Technology  |
| Professor           | KINBARA, Kazushi  | Bioinspired Synthetic Chemistry   |         | • Life Science and Technology  |
| Professor           | KOMADA, Masayuki  | Biochemistry and Cell Biology, Growth Factor Signaling, Membrane Trafficking, Tumor Biology   |         | • Life Science and Technology  |
| Professor           | SUZUKI, Takashi   | Molecular Neurobiology  |         | • Life Science and Technology  |
| Professor           | SEIO, Kohji       | Bioorganic Chemistry  |         | • Life Science and Technology<br>• Science and Technology for Health Care and Medicine |
| Professor           | TAGUCHI, Hideki   | Protein science, Biochemistry, Protein Folding, Chaperone, Ribosome, Amyloid/Prion  |         | • Life Science and Technology  |
| Professor           | TANAKA, Mikiko    | Developmental Biology   |         | • Life Science and Technology  |
| Professor           | HAYASHI, Nobuhiro | Molecular Biology and Proteomics  |         | • Science and Technology for Health Care and Medicine                                  |
| Professor           | HIROTA, Junji     | Molecular Neuroscience  |         | • Life Science and Technology  |
| Professor           | FUKUI, Toshiaki   | Genetic Engineering, Metabolic Engineering, Extremophiles   |         | • Life Science and Technology  |
| Professor           | HONGO, Yuichi     | Molecular Microbial Ecology, Symbiosis  |         | • Life Science and Technology  |
| Professor           | MASUDA, Shinji    | Plant Molecular Biology and Photobiology  |         | • Life Science and Technology  |
| Professor           | MURAKAMI, Satoshi | Structural Biology, Protein Crystallography   |         | • Life Science and Technology  |
| Professor           | YAMAGUCHI, Yuki   | Control of Gene Expression, Epigenetics, RNA Processing, Drug Discovery   |         | • Life Science and Technology  |

| Academic Supervisor |                    | Research Field  | Remarks | Graduate Major   |
|---------------------|--------------------|---|---------|--|
| Associate Professor | AIZAWA, Yasunori   | Cellular Genomics   |         | • Life Science and Technology  |
| Associate Professor | ASAKURA, Noriyuki  | Bioinorganic Chemistry, Biological Electron Transfer  |         | • Life Science and Technology  |
| Associate Professor | OHKUBO, Akihiro    | Bioorganic Chemistry  |         | • Life Science and Technology<br>• Science and Technology for Health Care and Medicine |
| Associate Professor | KATO, Akira        | Epithelial Transport, Animal Physiology   |         | • Life Science and Technology  |
| Associate Professor | SHIMOJIMA, Mie     | Plant Molecular Biology and Biochemistry  |         | • Life Science and Technology  |
| Associate Professor | SHIRAKI, Nobuaki   | Stem Cell Biology   |         | • Life Science and Technology  |
| Associate Professor | TAGAWA, Yoh-ichi   | Developmental Engineering, Molecular Biology, Artificial Organ, Immunology  |         | • Life Science and Technology  |
| Associate Professor | TSUTSUMI, Hiroshi  | Chemical Biology  |         | • Life Science and Technology  |
| Associate Professor | TO, Taiko          | Plant, Epigenetics, Molecular Genetics, Genome Biology, Synthetic Biology (Basic Biology in Inheritance of Chromatin modification, Genome Dynamics, Development of Epigenome Editing Technology.)                       |         | • Life Science and Technology  |
| Associate Professor | NAKAMURA, Nobuhiro | Molecular and Cellular Biology, Vascular Biology, Receptor-mediated signal transduction, Ubiquitination, Intracellular Trafficking  |         | • Life Science and Technology  |
| Associate Professor | NIKAIDO, Masato    | Molecular Evolutionary Biology  |         | • Life Science and Technology  |
| Associate Professor | NOZAWA, Kayo       | Genome foldings, Transcriptional regulation, Subnucleosome, Biochemical analysis, Structural biology, Cryo-EM, The development of affinity grid for cryo-EM, In-vitro reconstitution of high-order genome architectures |         | • Life Science and Technology  |
| Associate Professor | HATA, Takeshi      | Organic Synthesis, Asymmetric Synthesis   |         | • Life Science and Technology  |
| Associate Professor | HIRASAWA, Takashi  | Applied Microbiology and Metabolic Engineering  |         | • Life Science and Technology  |
| Associate Professor | FUJITA, Naonobu    | Cell and Developmental Biology  |         | • Life Science and Technology  |
| Associate Professor | MATSUDA, Tomoko    | Bioorganic Chemistry, Biocatalysis, Green Chemistry   |         | • Life Science and Technology  |
| Associate Professor | MIE, Masayasu      | Protein Engineering, Tissue Engineering, Biosensing   |         | • Life Science and Technology<br>• Science and Technology for Health Care and Medicine |
| Associate Professor | YATSUNAMI, Rie     | Extremophile, Extremozyme, Protein Engineering, Directed Evolution, Metabolic Engineering,  |         | • Life Science and Technology  |

| Academic Supervisor |                     | Research Field   | Remarks | Graduate Major   |
|---------------------|---------------------|--|---------|--|
| Associate Professor | YAMADA, Takuji      | Genome Science and Bioinformatics  |         | <ul style="list-style-type: none"> <li>Life Science and Technology</li> </ul>  |
| Professor           | KURODA, Kumi        | Neuroscience of social behavior, Parental care, Infant development and attachment, Neuropsychobiology                    |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Professor           | KOSHIKAWA, Naohiko  | Tumor biology, Tumor diagnostics, Clinical proteomics  |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Professor           | SANEYOSHI,Takeo     | Molecular Neuroscience, Quantum Biology  |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Professor           | NAKATOGAWA, Hitoshi | Molecular Cell Biology and Biochemistry  |         | <ul style="list-style-type: none"> <li>Human Centered Science and Biomedical Engineering</li> <li>Life Science and Technology</li> </ul>   |
| Professor           | NAKAMURA, Hiroyuki  | Organic Synthesis, Medicinal Chemistry, Chemical Biology   |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Professor           | NISHIYAMA, Nobuhiro | Drug Delivery System, Biomaterials Science   |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Professor           | YASUI, Takao        | Quantum life science, bioanalytical chemistry, nanospace chemistry, nanobiodevices, liquid biopsy                        |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Professor           | YAMAYOSHI,Asako     | Chemical Biology, Nucleic Acid Drugs, Chemistry for Nucleic Acids, DDS   |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Associate Professor | URIU, Koichiro      | Mathematical Biology, Mathematical Developmental Biology, Mathematical Chronobiology                                     |         | <ul style="list-style-type: none"> <li>Human Centered Science and Biomedical Engineering</li> <li>Life Science and Technology</li> </ul>   |
| Associate Professor | OKADA, Satoshi      | Molecular imaging, Chemical biology, Nanotechnology  |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Associate Professor | OGURA, Shun-ichiro  | Molecular Biology, Alternative Therapy for Tumor, Biomtabolic Engineering, Biomarker                                     |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Associate Professor | ORIHARA, Kanami     | Immunology, Allergic diseases, Infectious diseases, Circadian rhythm, Preventive medicine                                |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Associate Professor | KADONOSONO, Tetsuya | Drug Discovery Science, Medicinal Protein Engineering, Tumor Biology   |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Associate Professor | KITAGUCHI, Tetsuya  | Bioimaging, Protein Engineering, Biosensors  |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Associate Professor | FUJIE, Toshinori    | Biomaterials, Polymer Science, Tissue Engineering, Bioelectronics  |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Associate Professor | MASAKI, Yoshiaki    | Bioorganic Chemistry, Nucleic Acid Chemistry, Nucleic Acid Therapeutics  |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Associate Professor | MIURA, Yutaka       | Polymer synthesis,Drug Delivery System, Biomaterials Science   |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> <li>Life Science and Technology</li> </ul> |
| Associate Professor | YOSHIDA, Keisuke    | Plant Biochemistry, Plant Physiology, Photosynthesis, Environmental Acclimation  |         | <ul style="list-style-type: none"> <li>Human Centered Science and Biomedical Engineering</li> <li>Life Science and Technology</li> </ul>   |
| Professor           | MATSUURA, Tomoaki   | Directed evolution, synthetic biology, cell-free science, biotechnology  |         | <ul style="list-style-type: none"> <li>Life Science and Technology</li> </ul>  |
| Associate Professor | FUJISHIMA, Kosuke   | Origins of life, Astrobiology, Synthetic biology, Directed evolution, RNA, peptide, Chemical evolution                   |         | <ul style="list-style-type: none"> <li>Life Science and Technology</li> </ul>  |
| Associate Professor | McGLYNN, Shawn      | Origins of life, Enzyme evolution, prebiotic chemistry, microbial ecology, stable isotope fractionation, geomicrobiology |         | <ul style="list-style-type: none"> <li>Life Science and Technology</li> </ul>  |
| Professor           | TAKINOUE, Masahiro  | Artificial cell engineering, Molecular computing, DNA nanotechnology, Molecular Robotics, Biophysics, Synthetic biology  |         | <ul style="list-style-type: none"> <li>Life Science and Technology</li> </ul>  |
| Professor           | YANAGIDA, Yasuko    | Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering   |         | <ul style="list-style-type: none"> <li>Science and Technology for Health Care and Medicine</li> </ul>                                      |

**A5 Postgraduate Program for Environmental Designers Contributing to Resilient Cities**
**(1) Dept. of Architecture and Building Engineering**

| Academic Supervisor |                      | Research Field  | Remarks | Graduate Major                          |
|---------------------|----------------------|---|---------|---|
| Professor           | IKARASHI, Kikuo      | Steel Structures  |         | • Architecture and Building Engineering |
| Professor           | OKUYAMA, Shin-ichi   | Architectural Design  |         | • Architecture and Building Engineering |
| Professor           | KAGI, Naoki          | Environmental Engineering, Building Services, Indoor Air Quality, Air Cleaning, Wellness, Smart Building                                    |         | • Architecture and Building Engineering |
| Professor           | KONO, Susumu         | Reinforced and prestressed concrete structures, Earthquake Engineering  |         | • Architecture and Building Engineering |
| Professor           | SAIO, Naoko          | Architectural Planning<br>Urban and Rural Planning  |         | • Architecture and Building Engineering |
| Professor           | TAMURA, Shuji        | Geotechnical Earthquake Engineering   |         | • Architecture and Building Engineering |
| Professor           | TSUKAMOTO, Yoshiharu | Architectural Design and Urban Research, Architectural Behaviorology  |         | • Architecture and Building Engineering |
| Professor           | HOTTA, Hisato        | Composite Structures  |         | • Architecture and Building Engineering |
| Professor           | YAMAZAKI, Taisuke    | History of Architecture, Architectural Design   |         | • Architecture and Building Engineering |
| Associate Professor | OKI, Takuya          | Architectural planning, Big data analysis, Artificial Intelligence application  |         | • Architecture and Building Engineering |
| Associate Professor | SHIOZAKI, Taishin    | Architectural Design  |         | • Architecture and Building Engineering |
| Professor           | NISHIMURA, Koshiro   | Concrete Structures<br>Earthquake Engineering   |         | • Architecture and Building Engineering |
| Associate Professor | NOUSAKU, Fuminori    | Architectural Design, Ecological Design, Descriptive Geometry   |         | • Architecture and Building Engineering |
| Associate Professor | FUKUDA, Shintaro     | Building Materials  |         | • Architecture and Building Engineering |
| Associate Professor | FUJITA, Yasuhito     | History of Architecture and Cities  |         | • Architecture and Building Engineering |
| Associate Professor | MURATA, Ryo          | Environmental Responsive Architecture, Passive Solar Design, Architectural Design   |         | • Architecture and Building Engineering |
| Associate Professor | YAMAZAKI, Yoshihiro  | Structural Engineering, Timber Structure, Seismic Engineering, Passive Control Structure  |         | • Architecture and Building Engineering |
| Associate Professor | YUASA, Kazuhiro      | Environmental Engineering, Building Services  |         | • Architecture and Building Engineering |
| Professor           | ISHIHARA, Tadashi    | Building Structure, Earthquake Engineering, Structural Dynamics, Design Load  |         | • Urban Design and Built Environment    |
| Professor           | KISHIKI, Shoichi     | Base-Isolation and Passive Control Structure, Seismic Retrofit for Existing Buildings, Post-Earthquake Damage Evaluation and Rehabilitation |         | • Urban Design and Built Environment    |
| Professor           | DOHI, Masato         | Community Planning and Design   |         | • Urban Design and Built Environment    |
| Professor           | NASU, Satoshi        | Architectural Design and Theory<br>Dwelling Culture and Environment   |         | • Urban Design and Built Environment    |
| Professor           | MATSUOKA, Masashi    | Remote Sensing of Environment and Disaster, Geoinformatics and AI for Disaster Mitigation   |         | • Urban Design and Built Environment    |
| Professor           | MANO, Yosuke         | Urban Planning  |         | • Urban Design and Built Environment    |

| Academic Supervisor |                | Research Field  | Remarks | Graduate Major                       |
|---------------------|----------------|---|---------|--------------------------------------|
| Associate Professor | ASAWA, Takashi | Urban and Built Environmental Engineering   |         | • Urban Design and Built Environment |
| Associate Professor | OKAZE, Tsubasa | Urban enviromental engineering<br>Snow engineering<br>Disaster resilience for architectural and urban environment |         | • Urban Design and Built Environment |
| Associate Professor | SAKAMURA, Kei  | City Planning, Community Design, Authenticity, Local Resource Management  |         | • Urban Design and Built Environment |
| Associate Professor | SATO, Daiki    | Structural Engineering,<br>Earthquake Engineering and Wind Enginnering  |         | • Urban Design and Built Environment |
| Associate Professor | TSUNO, Seiji   | Earthquake Engineering,<br>Strong motion, Site effect, Subsurface survey,<br>Earthquake Early Warning             |         | • Urban Design and Built Environment |
| Associate Professor | HIRAGA, Amana  | Historic Architectural Preservation, History of Architecture  |         | • Urban Design and Built Environment |

## (2) Dept. of Civil and Environmental Engineering

| Academic Supervisor |                     | Research Field  | Remarks | Graduate Major                       |
|---------------------|---------------------|---|---------|--------------------------------------|
| Professor           | IWANAMI, Mitsuyasu  | Infrastructure Management, Marine Structure Engineering                                     |         | • Civil Engineering                  |
| Professor           | KANAE, Shinjiro     | Hydrology, Hydrologic Cycle, Water Resources  |         | • Civil Engineering                  |
| Professor           | SASAKI, Ei-ichi     | Bridge Engineering & Structural Engineering   |         | • Civil Engineering                  |
| Professor           | TAKAHASHI, Akihiro  | Geotechnical Engineering  |         | • Civil Engineering                  |
| Professor           | TAKAYAMA, Yuki      | Urban and Regional Economics,<br>Regional Science   |         | • Civil Engineering                  |
| Professor           | CHIJIWA, Nobuhiro   | Structural Concrete, Multi-Scale Dynamics of Concrete,<br>Maintenance of Infrastructure     |         | • Civil Engineering                  |
| Professor           | YOSHIMURA, Chihiro  | Water Environmental Engineering, Environmental Photochemistry, Applied Aquatic Ecology      |         | • Civil Engineering                  |
| Associate Professor | UTSUMI, Nobuyuki    | Hydrometeorology, Climate Change, Satellite Remote Sensing                                  |         | • Civil Engineering                  |
| Associate Professor | SAWADA, Mai         | Geotechnical Engineering, Unsaturated Soil Mechanics,<br>Conservation of Historic Sites     |         | • Civil Engineering                  |
| Associate Professor | SEO, Toru           | Transportation Research, Traffic Flow Theory, Data Science                                  |         | • Civil Engineering                  |
| Associate Professor | FUJII, Manabu       | Water and Environmental Engineering, Sustainable Development, Water Chemistry               |         | • Civil Engineering                  |
| Associate Professor | MATSUZAKI, Hiroshi  | Structural Design Method, Bridge & Maintenance Engineering, Earthquake-Resistant Structures |         | • Civil Engineering                  |
| Associate Professor | MARUYAMA, Taizo     | Applied Mechanics, Computaional Mechanics,<br>Nondestructive Evalutaion                     |         | • Civil Engineering                  |
| Professor           | SANADA, Junko       | Rural Landscape and Rural Development, Value and Technology Transfer of Dry Stone Walling   |         | • Urban Design and Built Environment |
| Professor           | MUROMACHI, Yasunori | Transport and the Environment, Travel Behavior  |         | • Urban Design and Built Environment |
| Professor           | MORIKAWA, Hitoshi   | Earthquake Engineering  |         | • Urban Design and Built Environment |
| Associate Professor | KOTANI, Hitomu      | Infrastructure Planning and Management, Disaster Social Science, Sustainability Science     |         | • Urban Design and Built Environment |