

# **Tokyo Institute of Technology International Graduate Program (C) Commencing in September 2018 Domestic Application**

Admission Date :  
September 26, 2018

Number of Admitted Students :  
Several Students in each Department

Type of Programs :  
Master's Program, Doctoral Program

<p>Application Period : July 3, 2018 - July 5, 2018</p>
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## **1. General Prospectus**

Tokyo Institute of Technology ("Tokyo Tech") launched its International Graduate Program in October 2007 as an opportunity for qualified international students, who may have little or no knowledge of the Japanese language, to enroll in Tokyo Tech's Master's or Doctoral Programs and pursue an advanced degree in Japan.

With a diverse group of academic departments participating in this program, students should be able to find a department in which to further their research, acquire broader knowledge and understanding, and conduct advanced long-term research in a field that best matches their interests and background.

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.

## **2. Program**

This recruitment prospectus is effective for the Master's and Doctoral Programs scheduled to begin in September 2018.

### **1) 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 theses; and pass a comprehensive final examination. Students who demonstrate outstanding academic performance during the program may be able to reduce their period of study.

### **2) Doctoral Program**

Students enrolled in the Doctoral Program are expected to successfully complete their supervised study within three years. To attain a doctoral 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 theses; and pass a comprehensive final examination. Students who demonstrate outstanding academic and research performance during the program may be able to reduce their period of study.

## List of Departments & Programs

School	Department	Master's Program	Doctoral Program
School of Science	Mathematics		○
	Physics	○	○
	Chemistry		○
	Earth and Planetary Sciences		
School of Engineering	Mechanical Engineering	○	○
	Systems and Control Engineering	○	○
	Electrical and Electronic Engineering	○	○
	Information and Communications Engineering	○	○
	Industrial Engineering and Economics	○	○
School of Materials and Chemical Technology	Materials Science and Engineering	○	○
	Chemical Science and Engineering	○	○
School of Computing	Mathematical and Computing Science	○	○
	Computer Science		
School of Life Science and Technology	Life Science and Technology	○	○
School of Environment and Society	Architecture and Building Engineering	○	○
	Civil and Environmental Engineering	○	○
	Transdisciplinary Science and Engineering	○	○
	Social and Human Science		
	Innovation Science		
	Technology and Innovation Management		

The mark “○” in the chart indicates the departmental programs offered to which applicants can apply.

### 3. Eligibility

Applicants who are living in Japan at the time of application and satisfy one of the conditions provided in A or B below. Please note that applicants may NOT (i) apply to a different Tokyo Tech 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.

#### **Master's Program**

- (1) Persons who have graduated from a university or college in Japan or are expected to do so by September 25, 2018
- (2) Persons who have obtained a bachelor's degree according to the provisions of Article 104.4 of the School Education Law of Japan (Law 26, 1947) or are expected to do so by September 25, 2018
- (3) Persons who have successfully completed 16 years of education outside Japan or are expected to do so by September 25, 2018
- (4) Persons who have taken a correspondence course provided by a foreign educational institution in Japan and have completed 16 years of education or are expected to do so by September 25, 2018
- (5) Persons who have successfully completed an undergraduate course of study at a foreign educational institution in Japan designated by the Minister of Education, Culture, Sports, Science and Technology ("the Minister") as an educational institution offering university curricula, or persons who are expected to do so by September 25, 2018. This applies solely to those who have successfully completed 16 years of formal education in the relevant country.
- (6) Persons who have obtained a degree equivalent to a bachelor's degree from a foreign educational institution<sup>1</sup> that requires at least 3 years for completion<sup>2</sup> or are expected to do so by September 25, 2018
  1. Institutions with educational and research programs that have been accredited by the government or persons authorized by the relevant organizations, or institutions that have been designated by the Minister
  2. Including persons who have completed a correspondence course of a foreign educational institution in Japan, or those who have completed a course at a foreign educational institution in Japan designated by the Minister as an institution offering foreign university curricula
- (7) Persons who have successfully completed a postsecondary course designated by the Minister at a specialized training college after the date designated by the Minister or are expected to do so. The course must have at least a 4-year study duration and meet requirements specified by the Minister.
- (8) Persons deemed eligible by the Minister (Notification No.5, 1953 by the Ministry of Education)
- (9) Persons who meet one of the following requirements and are recognized by the relevant School at Tokyo Tech as having obtained the designated academic credits with excellent results:
  - a. Those who attended a university for at least 3 years
  - b. Those who have successfully completed 15 years of education outside Japan
  - c. Those who have successfully completed an undergraduate course of study at a foreign educational institution in Japan designated by the Minister as an educational institution offering foreign university curricula. This applies solely to those who have completed 15 years of formal education in the relevant country.
- (10) Persons who are individually assessed and recognized by the relevant School at Tokyo Tech as having academic ability equivalent to or higher than university or college graduates and are at least 22 years old by September 25, 2018
- (11) Persons whose countries do not require 16 years of education prior to completing undergraduate-level education but satisfy both the conditions below and are recognized by the relevant School at Tokyo Tech as having academic ability equivalent to or higher than graduates of a Japanese university:
  - a. Persons who have spent at least 1 year as a research student or research fellow at a university or research institution in or outside Japan after successfully obtaining a bachelor's degree or are expected to do so by September 25, 2018
  - b. Persons who are at least 22 years old by September 25, 2018

\* Persons expected to meet one of the above requirements during the period from September 26 to 30, 2018 are asked to contact the Admissions Division for details well in advance of the application period.

### **Doctoral Program**

- (1) Persons who have obtained a master's degree or professional master's degree or are expected to do so by September 25, 2018
- (2) Persons who have successfully obtained a degree equivalent to a master's degree or professional master's degree outside Japan or are expected to do so by September 25, 2018
- (3) Persons who have successfully obtained a degree equivalent to a master's degree or professional master's degree by taking a correspondence course provided by a foreign educational institution in Japan, or persons expected to do so by September 25, 2018
- (4) Persons who have successfully obtained a degree equivalent to a master's degree or professional master's degree at a foreign educational institution in Japan designated by the Minister as an educational institution offering graduate school curricula, or persons expected to do so by September 25, 2018
- (5) Persons who have successfully obtained a degree equivalent to a master's degree from the United Nations University<sup>1</sup> or are expected to do so by September 25, 2018

1. According to Article 1 (2) of the Act on Special Measures Incidental to Enforcement of the "Agreement between the United Nations and Japan regarding the Headquarters of the United Nations University" (Act No. 72 of 1976) established under the United Nations General Assembly resolution of December 11, 1972

- (6) Persons deemed by the Minister as meeting the following requirements:
  - a. Persons who have graduated from a university and acquired at least 2 years of research experience at a university or research institution and are recognized by the relevant School at Tokyo Tech as having academic ability equivalent to or higher than master's degree or professional master's degree holders
  - b. Persons who have acquired at least 2 years of research experience at a university or research institution after completing 16 years of formal education outside Japan or completing 16 years of formal education by taking a correspondence course provided by a foreign educational institution in Japan, and are recognized by the relevant School at Tokyo Tech as having academic ability equivalent to or higher than master's degree or professional master's degree holders
- (7) Persons who are individually assessed and recognized by the relevant School at Tokyo Tech as having academic ability equivalent to or higher than master's degree or professional master's degree holders and are at least 24 years old by September 25, 2018

\* Persons expected to meet one of the above requirements during the period from September 26 to 30, 2018 are asked to contact the Admissions Division for details well in advance of the application period.

The Application for Individual Assessment of Admission Eligibility and supplemental documents are required for applicants who apply under the eligibility conditions (9), (10) or (11) for the Master's Program, or the eligibility conditions (6) or (7) for the Doctoral Program. Applicants are requested to submit the Application for Individual Assessment of Admission Eligibility and supplemental documents to the Admissions Division by 17:00 on May 21, 2018. If sent by post, documents should reach the Admissions Division by May 21, 2018.

Notification of Individual Assessment results will be posted around May 29, 2018.

Applicants who have satisfied the requirements of the Individual Assessment of Admission Eligibility must submit this Notification with the other application documents listed below during the application period.

Note:

- 1) Applicants who are Japanese citizens should consult the Admissions Division before applying.
- 2) The admission of applicants expecting to graduate from a university or college will be revoked should the applicant fail to graduate or obtain a master's or professional master's degree by September 25, 2018.

## 4. Application Procedures

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

### Note:

Faculty members are affiliated with schools and assigned to teach for majors. Students must select a major that is indicated on the lists of faculties. Please ask your intended academic supervisor which major you should select. Requirements for the completion of a degree are stipulated for each major.

For further information on faculty members, such as email addresses and contact information, please refer to the "STAR Search" (researchers' database) on the Tokyo Tech homepage:

[<http://search.star.titech.ac.jp/titech-ss/lang.act?forward=search.act&lang=en&>](http://search.star.titech.ac.jp/titech-ss/lang.act?forward=search.act&lang=en&)

Some academic supervisors may require the submission of additional documents before the stated deadline.

### Application Requirements

No.	Required Documents
1	Application Form (attached form, original, no photocopies)
2	Photograph Card, Admission Card (attached form)
3	<p>Application fee Please use the supplied payment slip to remit 30,000 yen at your post office or bank (no remittance fee will be charged if payments are made at Sumitomo Mitsui Bank). Please paste the post office receipt for your payment (in Japanese, "振替払込受付証明書[お客さま用] furikae-haraikomi-uketsuke-shomeisho [okyakusamayo]") on to the designated section of your application form.</p> <p>If you are a Japanese Government (MEXT) Scholarship student, you are not required to pay this fee. In that case, please submit documents to verify your scholarship status.</p> <p>In the event that natural disasters occurred in regions where applicants or those responsible for their financial support reside, subject to the Disaster Relief Act (Law No. 118, 1947), and subject to a determination relating to financial circumstances, applicants may be eligible for exemption from the entrance examination fee.</p> <p>Following cases may be applicable:</p> <ul style="list-style-type: none"> <li>i) when a house which those responsible for the applicants' financial support reside is completely collapsed, largely collapsed, half collapsed or washed away, or</li> <li>ii) when those responsible for the applicants' financial support are deceased or disappeared.</li> </ul> <p>For further information contact the Admissions Division before applying.</p>
4	Official Academic Transcripts from both undergraduate and graduate schools (originals or certified copies)
5	<p>Certificate of Graduation or Expected Graduation from both undergraduate and graduate schools (originals or certified copies)</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 school indicating as such.</p>
6	<p>Certificate of Residence (juminhyo) or documentation to confirm status of residence and authorized period of stay, such as photocopy of front and back of Resident Card (zairyu card).</p> <p>*However, photocopies of Certificate of Residence are not accepted. For Non-Japanese citizens only.</p>

7	Envelope for mailing Admission Card for Examination (attached form) (Applicant's address, name and postal code should be filled in and <b>372 yen in stamps affixed</b> )
8	Consent of a Tokyo Tech Faculty Member Attach a printout of email correspondence or any other proof to verify that a Tokyo Tech faculty member has consented to be the applicant's academic supervisor during the intended period of study at Tokyo Tech.
9	Summary of Thesis (free format, about 300 words) For applicants to the Doctoral program only
10	Photocopy of Master's thesis For applicants to the Doctoral program only

Note:

Documents No.4 & 5: Original 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.

### Other Application Requirements for Certain Categories of Applicants

No.	Required Documents
1	<p><u>English Proficiency Test Score Report</u> (original, no photocopies)</p> <p>Applicants are required to submit English proficiency test score reports from TOEFL-iBT, TOEFL-PBT, TOEIC or the IELTS Academic Module taken on or after <b>July 6, 2016</b>. The kinds of score reports that may be submitted are TOEFL/Examinee Score Reports (Official Score Report sent directly from ETS to the University cannot be used), the TOEIC/Official Score Certificate, and/or the IELTS Academic Module/Test Report Form. Score reports from the Institutional Testing Program of TOEFL and TOEIC (TOEFL-ITP, TOEIC-ITP, TOEIC-IP), TOEIC S&amp;W or other proficiency tests not specifically listed above will not be accepted.</p> <p>The above applies to applicants to all departments excluding Department of Mathematics. (See "English Proficiency Examinations" on pages 10 &amp; 11)</p>
2	<p><u>Application for Individual Assessment of Admission Eligibility</u> (attached form) with the following supplementary documents:</p> <p><b>1.1) Eligibility (9) for the Master's Program</b></p> <ul style="list-style-type: none"> <li>• Letter of recommendation from the Dean of home institution (attached form)</li> <li>• Official academic transcripts</li> <li>• Certificate of student status</li> <li>• Regulations concerning the graduation requirements of the relevant university</li> <li>• Photocopy of Application Form</li> </ul> <p><b>1.2) Eligibility (10) or (11) for the Master's Program</b></p> <ul style="list-style-type: none"> <li>• Certificate of enrollment after graduation from university</li> <li>• Official academic transcripts</li> <li>• Certificate of graduation</li> <li>• Photocopy of Application Form</li> </ul> <p><b>2) Eligibility (6) or (7) for the Doctoral Program</b></p> <ul style="list-style-type: none"> <li>• Certificate of graduation</li> <li>• Research Achievements (attached form)</li> <li>• Outline of research</li> <li>• Photocopy of academic papers (persons who have presented them)</li> <li>• Photocopy of Application Form</li> </ul> <p>This form is only for applicants requesting special admission consideration based on eligibility condition (9), (10) or (11) for the Master's Program, or (6) or (7) for the Doctoral Program, as set forth in Section 3, "Eligibility" in this application guide.</p>

## Submission of Application Documents

The completed application documents must reach the Admissions Division during the application period indicated below.

**Application Period: July 3, 2018 — July 5, 2018**

### Submission in person at the Counter of the Admissions Division

Application documents must be submitted during the hours of **10:00 - 12:00 and 13:15 - 15:00** at the Admissions Division, Tokyo Institute of Technology (Ookayama Campus).

Applications will not be accepted at any other time.

### Submission by Post

Application documents must be sent by registered express mail. Please write the following on the envelope in red ink: "Application for International Graduate Program." Send to the address below, so as to arrive no later than July 5, 2018.

Mailing Address:

Admissions Division  
Student Services Department  
TOKYO INSTITUTE OF TECHNOLOGY  
2-12-1-W8-103 Ookayama, Meguro-ku, Tokyo 152-8550

〒152-8550

東京都目黒区大岡山 2-12-1-W8-103

東京工業大学学務部入試課

Note:

- 1) An Admission Card for Examination will be sent by post around July 24, 2018. If you don't receive this card by July 30, 2018, please contact the Admissions Division ([ryugakusei@jim.titech.ac.jp](mailto:ryugakusei@jim.titech.ac.jp)).
- 2) Tokyo Tech will not accept or consider any documents received after the stated deadline or any incomplete applications.
- 3) Original certificates must be submitted.
- 4) Submitted documents cannot be changed after completing the application.
- 5) Submitted documents will not be returned under any circumstances. Tokyo Tech will not provide photocopies of the submitted documents. Please keep a copy of all documents for personal reference. Should a document not be reissuable, please submit a certified copy instead.
- 6) Admission may be withdrawn at any time, even after enrollment, if the application documents are found to be invalid or contain false information.



## 5. Admission Decision

### Examination period: August 1, 2018 - August 28, 2018

Applicants will be informed of the date, time and place of the examination when the Admission Card for Examination is sent, around July 24, 2018.

### Examination Subjects

#### Master's Program

Decisions regarding successful applicants for the Master's Program are based on the results of an interview and academic records, or are based on the results of examination of English proficiency, written examinations on specialized subjects, an oral examination and academic records. For more information about the examination, please contact the department being applied to.

#### Doctoral Program

Decisions regarding successful applicants for the Doctoral Program are based on the results of examinations of English proficiency, an interview on the master's thesis (or research achievements), an academic examination and an oral examination.

### Examination of English Proficiency

The examination of English proficiency differs among the departments. Applicants should refer to "English Proficiency Examinations" on pages 10 & 11.

It is possible that native English speakers or students who have been awarded an undergraduate and/or graduate degree\* from an institution where all instruction was in English may not be required to submit English proficiency test scores. Such applicants should consult with their intended academic supervisor prior to submission of the application form to verify that they are exempt from this application requirement. Whether or not an applicant needs to provide an English proficiency test score report will be determined by the academic supervisor's department and not automatically waived.

\*Undergraduate and graduate degrees should be equivalent to the Japanese educational definitions of undergraduate, master's and doctoral degrees.

### Announcement of Successful Applicants

A pdf version of the list of successful applicants will be available on the university website "Admission Updates" around 15:00 on September 6, 2018.

<[http://www.titech.ac.jp/english/graduate\\_school/news/](http://www.titech.ac.jp/english/graduate_school/news/)>

## 6. Admissions Procedures

Admissions Procedures will take place at Tokyo Tech either on September 18, 2018 or September 19, 2018. Details will be provided when documents are issued to the academic supervisors of successful applicants. Those admitted to the Master's and Doctoral Program will be required to pay the following fees.

Admission Fee	¥282,000 (JPY)
Tuition Fee (per year)	¥535,800 (JPY)

(Admission and tuition fees are subject to change.)

The admission fee and tuition fee can be waived or their payment postponed upon request. Students who wish for exemption of the admission fee and tuition fee or postponement of their payment should submit the relevant application forms to be found in the admission procedure packet.

<https://www.titech.ac.jp/english/enrolled/tuition/index.html>

## 7. Note

- 1) Applicants are required to bring the Admission Card for Examination when taking the Examination.
- 2) Information in the application document is used only for the entrance examination and business related to the entrance examination.
- 3) Once the application fee has been paid, it will not be returned for any reason after the application has been received.
- 4) Applicants should be aware that the latest information regarding application selection and related matters is made available on the Tokyo Tech website <[http://www.titech.ac.jp/english/graduate\\_school/news/](http://www.titech.ac.jp/english/graduate_school/news/)>.
- 5) This recruitment prospectus does not apply to applicants who are scheduled to advance to the Doctoral Program while presently enrolled in a Master's Program at Tokyo Tech (candidates for in-house advancement).

## English Proficiency Examinations

Appendix Table 1

Description of English Proficiency Examinations, etc

Department of Mathematics	English ability as confirmed in oral examination
Department of Physics	External English Proficiency Test
Department of Chemistry	External English Proficiency Test
Department of Mechanical Engineering	External English Proficiency Test
Department of Systems and Control Engineering	External English Proficiency Test
Department of Electrical and Electronic Engineering	External English Proficiency Test
Department of Information and Communications Engineering	External English Proficiency Test
Department of Industrial Engineering and Economics	External English Proficiency Test
Department of Materials Science and Engineering	External English Proficiency Test
Department of Chemical Science and Engineering	External English Proficiency Test
Department of Mathematical and Computing Science	External English Proficiency Test
Department of Life Science and Technology	External English Proficiency Test
Department of Architecture and Building Engineering	External English Proficiency Test
Department of Civil and Environmental Engineering	External English Proficiency Test
Department of Transdisciplinary Science and Engineering	External English Proficiency Test

Appendix Table 2

## Departments Utilizing External English Proficiency Tests and their Methods of Use

Department of Physics	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
Department of Chemistry	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
Department of Mechanical Engineering	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
Department of Systems and Control Engineering	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
◆ Department of Electrical and Electronic Engineering	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
◆ Department of Information and Communications Engineering	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
◆ Department of Industrial Engineering and Economics	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
Department of Materials Science and Engineering	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
Department of Chemical Science and Engineering	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
Department of Mathematical and Computing Science	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
Department of Life Science and Technology	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
Department of Architecture and Building Engineering	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
Department of Civil and Environmental Engineering	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.
Department of Transdisciplinary Science and Engineering	Submit score from any one of TOEFL-iBT, TOEFL-PBT, TOEIC, or IELTS for evaluation.

Note 1. When you are submitting a score sheet, please take care to include the proper score sheet (original) given above with your other application documents.

Note 2. The ◆ symbols indicate that when it is not possible to submit your score sheet at the time of application, applicants must submit it to the intended department by the date of examination.

Note 3. As an exception to the above, applicants for the doctoral program may be able to take an oral examination. Applicants should consult with their intended academic supervisor in advance.

**List of Faculties**  
**Tokyo Institute of Technology International Graduate Program (C)**  
**Commencing in September 2018 Domestic Application**

**School of Science**

**(1)Dept. of Mathematics**

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	AKUTAGAWA, Kazuo	Differential geometry, geometric and global analysis		Mathematics
Professor	ENDO, Hisaaki	Topology		Mathematics
Professor	HONDA, Nobuhiro	Complex geometry		Mathematics
Professor	KATO, Fumiharu	Algebraic geometry, Arithmetic geometry		Mathematics
Professor	NAITO, Satoshi	Representation theory		Mathematics
Professor	NINOMIYA, Syoiti	Computational Finance, Mathematical Finance, Probability theory		Mathematics
Professor	NISHIBATA, Shinya	Theory of Partial Differential Equations		Mathematics
Professor	☆☆SHIGA, Hiroshige	Complex analysis		Mathematics
Professor	TAGUCHI, Yuichiro	Number theory		Mathematics
Professor	TONEGAWA, Yoshihiro	Partial differential equations, Geometric measure theory		Mathematics
Professor	UMEHARA, Masaaki	Differential Geometry		Mathematics
Professor	YAMADA, Kotaro	Differential geometry		Mathematics
Professor	YANAGIDA, Eiji	Partial differential equations		Mathematics
Associate Professor	HATTORI, Toshiaki	Geometry		Mathematics
Associate Professor	KALMAN, Tamas	Topology		Mathematics
Associate Professor	KAWAHIRA, Tomoki	Complex dynamics, Complex analysis		Mathematics
Associate Professor	MA, Shohei	Algebraic geometry		Mathematics
Associate Professor	MIURA, Hideyuki	Theory of Partial differential equations		Mathematics
Associate Professor	MIZUMOTO, Shin-ichiro	Theory of automorphic forms		Mathematics
Associate Professor	NOSAKA, Takefumi	Topology		Mathematics
Associate Professor	ONODERA, Michiaki	Partial differential equations		Mathematics
Associate Professor	SUZUKI, Masatoshi	Analytic Number Theory		Mathematics

Associate Professor	TERASHIMA, Yuji	Differential topology, Mathematical physics, Arithmetic topology		Mathematics
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☆☆ indicates person who will retire in March, 2019.

## (2)Dept. of Physics

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	FUJISAWA, Toshimasa	Electron dynamics in semiconductor nanostructures		Physics
Professor	HIRAYAMA, Hiroyuki	Surface & Interface Physics		Physics
Professor	ITO, Katsushi	Particle Physics (Theory)		Physics
Professor	JIDO, Daisuke	Nuclear Hadron Physics (Theory)		Physics
Professor	KAWAI, Nobuyuki	Astrophysics (Experiment)		Physics
Professor	KOZUMA, Mikio	Quantum optics, Laser cooling, Bose Einstein condensation		Physics
Professor	KUZE, Masahiro	Particle Physics (Experiment)		Physics
Professor	MURAKAMI, Shuichi	Theoretical Condensed Matter Physics, spintronics, geometrical phases		Physics
Professor	NAKAMURA, Takashi	Nuclear Physics (Experiment)		Physics
Professor	NOTOMI, Masaya	Nanophotonics, Photonic crystals, Metamaterials		Physics
Professor	OKUMA, Satoshi	Low Temperature Physics, Superconductivity		Physics
Professor	SAITO, Susumu	Theoretical Condensed Matter Physics		Physics
Professor	SASAMOTO, Tomohiro	Statistical physics		Physics
Professor	TANAKA, Hidekazu	Magnetism, quantum spin system, frustrated magnets, low-dimensional magnet		Physics
Professor	YAMAGUCHI, Masahide	Cosmology, particle physics, gravitation (Theory)		Physics
Specially Appointed Professor	DOTANI, Tadayasu	X-ray Astronomy (Experiment)	JAXA	Physics
Specially Appointed Professor	HASHIZUME, Tomihiro	Surface and interface physics, nanoscale materials physics and device applications	HITACHI	Physics
Specially Appointed Professor	HIGEMOTO, Wataru	Strongly correlated electron systems, Muon science	JAEA	Physics
Specially Appointed Professor	MATSUHARA, Hideo	Infrared Astronomy (Experiment)	JAXA	Physics
Associate Professor	AIKAWA, Kiyotaka	Atomic and molecular physics, Quantum optics, Laser cooling		Physics
Associate Professor	FUJIOKA, Hiroyuki	Nuclear and Hadron Physics (Experiment)		Physics
Associate Professor	HIRAHARA, Toru	Surface Physics, Nano /spin-Science		Physics

Associate Professor	IMAMURA, Yosuke	Particle Physics (Theory)		Physics
Associate Professor	JINNOUCHI, Osamu	High Energy Particle Physics (Experiment)		Physics
Associate Professor	KANAMORI, Hideto	Interaction of molecules with light		Physics
Associate Professor	KOGA, Akihisa	Strongly correlated electron systems		Physics
Associate Professor	MATSUSHITA, Michio	Optical spectroscopy of single proteins		Physics
Associate Professor	NISHIDA, Yusuke	Theoretical Quantum Physics, Ultracold Atoms		Physics
Associate Professor	SOMIYA, Kentaro	Gravitational Wave Detector		Physics
Associate Professor	SUYAMA, Hiroyuki	Cosmology, gravitational waves (Theory)		Physics
Associate Professor	KAWAMURA, Toru	Plasma Physics, Atomic Processes in Plasmas, Plasma X-ray Spectroscopy		Physics

### (3)Dept. of Chemistry

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	EGUCHI, Tadashi	Natural Product Chemistry, Bioorganic Chemistry, Biochemistry		Chemistry
Professor	GOTO, Kei	Organic Chemistry		Chemistry
Professor	ISHITANI, Osamu	Photochemistry, Photocatalyst		• Energy Science and Engineering • Chemistry
Professor	IWASAWA, Nobuharu	Organic Chemistry		• Chemistry • Energy Science and Engineering
Professor	KAWAGUCHI, Hiroyuki	Coordination Chemistry		Chemistry
Professor	KAWANO, Masaki	Coordination Chemistry, Chemical Crystallography, Supramolecular Chemistry		Chemistry
Professor	KIGUCHI, Manabu	Surface Chemistry		Chemistry
Professor	KOMATSU, Takayuki	Catalytic Chemistry		Chemistry
Professor	KOSHIHARA, Shinya	Photo-induced Cooperative Phenomena, Optical Properties of Solids		• Energy Science and Engineering • Chemistry
Professor	NOGAMI, Kenji	Geochemistry, Volcanology		Chemistry
Professor	OHSHIMA, Yasuhiro	Physical Chemistry, Laser Science		• Chemistry • Energy Science and Engineering
Professor	OKADA, Tetsuo	Analytical Chemistry		• Chemistry • Energy Science and Engineering
Professor	TOYOTA, Shinji	Physical Organic Chemistry		Chemistry
Professor	YASHIMA, Masatomo	Materials Science, Crystallography, Solid State Chemistry & Physics, Solid State Ionics, Crystal Structure Analysis, New Inorganic Materials		• Energy Science and Engineering • Chemistry
Associate Professor	FUKUHARA, Gaku	Analytical Chemistry, Supramolecular Chemistry		Chemistry

Associate Professor	KITAJIMA, Masashi	Physical Chemistry		Chemistry
Associate Professor	KUDO, Fumitaka	Bioorganic Chemistry		Chemistry
Associate Professor	MAEDA, Kazuhiko	Inorganic Materials Chemistry, Photocatalysis		• Energy Science and Engineering • Chemistry
Associate Professor	NISHINO, Tomoaki	Surface Chemistry		Chemistry
Associate Professor	OHMORI, Ken	Organic Chemistry		Chemistry
Associate Professor	OKIMOTO, Yoichi	Optical Spectroscopy of Solids		• Energy Science and Engineering • Chemistry
Associate Professor	TAKAYA, Jun	Organic Chemistry		Chemistry
Associate Professor	TERADA, Akihiko	Volcanology		Chemistry
Associate Professor	UEKUSA, Hidehiro	Chemical Crystallography, Organic Crystal Chemistry		Chemistry

## School of Engineering

### (4)Dept. of Mechanical Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	AOKI, Takayuki	Multi-phase Flow Simulation, Large-scale Computational Fluid Dynamics, GPU Computing		• Mechanical Engineering • Energy Science and Engineering
Professor	HANAMURA, Katsunori	Environmental Thermal Engineering		• Energy Science and Engineering • Mechanical Engineering
Professor	HATSUZAWA, Takeshi	Bio-MEMS/NEMS		• Human Centered Science and Biomedical Engineering • Mechanical Engineering
Professor	HIRAI, Shuichiro	Global Environment Engineering		• Mechanical Engineering • Energy Science and Engineering
Professor	HIRATA, Atsushi	Surface Engineering		Mechanical Engineering
Professor	INOUE, Hirotsugu	Mechanics of Materials, Non-destructive Testing		Mechanical Engineering
Professor	INOUE, Takayoshi	Heat Transfer in Extreme Conditions, Thermal Management Technologies for Aerospace Engineering		• Mechanical Engineering • Energy Science and Engineering
Professor	IWATSUKI, Nobuyuki	Human Friendly Systems, Silent Engineering		• Mechanical Engineering • Engineering Sciences and Design
Professor	KOSAKA, Hidenori	Thermodynamics, Fluid Dynamics, Internal Combustion Engine		• Mechanical Engineering • Energy Science and Engineering
Professor	MATUNAGA, Saburo	Space Systems Engineering, Space Robotics, Small Satellite Systems		• Engineering Sciences and Design • Mechanical Engineering
Professor	NOZAKI, Tomohiro	Plasma Materials Science, Reaction Engineering, Thermal Engineering		• Energy Science and Engineering • Mechanical Engineering
Professor	OHTAKE, Naoto	Manufacturing Science and Technology		• Mechanical Engineering • Engineering Sciences and Design
Professor	OKADA, Masafumi	Robotics, Control Engineering		• Engineering Sciences and Design • Mechanical Engineering



Professor	OKAMURA, Tetsuji	Cryogenics, Cooling/Refrigeration Technology, Superconducting Magnet Technology		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Energy Science and Engineering</li> </ul>
Professor	OKUMA, Masaaki	Structural Dynamics, Acoustics, Optimum Design, CAE		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Engineering Sciences and Design</li> </ul>
Professor	OKUNO, Yoshihiro	Physics and Application of Magnetohydrodynamics, MHD Power Generation, Plasma Science and Engineering		<ul style="list-style-type: none"> <li>• Energy Science and Engineering</li> <li>• Mechanical Engineering</li> </ul>
Professor	OMATA, Toru	Robotics, Medical Systems		<ul style="list-style-type: none"> <li>• Human Centered Science and Biomedical Engineering</li> <li>• Mechanical Engineering</li> </ul>
Professor	SAITO, Shigeki	Micromechanics, Micro Robotics, Engineering Design		<ul style="list-style-type: none"> <li>• Engineering Sciences and Design</li> <li>• Mechanical Engineering</li> </ul>
Professor	SATOH, Isao	Energy Applications		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Energy Science and Engineering</li> </ul>
Professor	SHINSHI, Tadahiko	Mechanical Systems, Magnetic MEMS, Artificial Heart		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Human Centered Science and Biomedical Engineering</li> </ul>
Professor	SUEKANE, Tetsuya	CO2 Geological Storage, Enhanced Oil Recovery, Transport in Porous Media		<ul style="list-style-type: none"> <li>• Energy Science and Engineering</li> <li>• Mechanical Engineering</li> </ul>
Professor	SUZUMORI, Koichi	Robotics, Soft Robotics, Actuator		Mechanical Engineering
Professor	TAKAHARA, Hiroki	Structural Dynamics		Mechanical Engineering
Professor	TAKEDA, Yukio	Mechanical Systems Design		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Engineering Sciences and Design</li> </ul>
Professor	TANAHASHI, Mamoru	Fluid Dynamics, Heat and Mass Transfer, Combustion		<ul style="list-style-type: none"> <li>• Energy Science and Engineering</li> <li>• Mechanical Engineering</li> </ul>
Professor	TODOROKI, Akira	Solids and Structures Engineering		Mechanical Engineering
Professor	XIAO, Feng	Fluid Dynamics, Computational Fluid Dynamics, Numerical Analysis, Computational Physics		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Energy Science and Engineering</li> </ul>
Professor	YAMAURA, Hiroshi	Mechatronics, Dynamics, Control		Mechanical Engineering
Professor	YANAGIDA, Yasuko	Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering		<ul style="list-style-type: none"> <li>• Human Centered Science and Biomedical Engineering</li> <li>• Mechanical Engineering</li> </ul>
Professor	YOSHIDA, Kazuhiro	Fluid Power Micromachines, Microactuators, Functional Fluid Application		<ul style="list-style-type: none"> <li>• Engineering Sciences and Design</li> <li>• Mechanical Engineering</li> <li>• Energy Science and Engineering</li> </ul>
Professor	YOSHINO, Masahiko	Nano/micro Manufacturing, Metalforming, Machining		Mechanical Engineering
Associate Professor	AKASAKA, Hiroki	Synthesis and Evaluation of Inorganic Carbon Materials		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Engineering Sciences and Design</li> </ul>
Associate Professor	AONO, Yuko	Functional Surface and Thin Film, Laser Processing		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> </ul>
Associate Professor	ENDO, Gen	Robotics, Mechatronics, Mechanism Design		Mechanical Engineering
Associate Professor	FURUYA, Hiroshi	Space Structure Engineering, Structural Analysis and Design, Optimization		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Engineering Sciences and Design</li> </ul>
Associate Professor	FUSHINOBU, Kazuyoshi	Energy Phenomena, Thermal Engineering		Mechanical Engineering
Associate Professor	HARA, Seiichiro	Surface Metrology, Measurement Information Processing		Mechanical Engineering
Associate Professor	HASEGAWA, Jun	Plasma Science and Technology, Ion Beam Application Studies, Inertial Fusion Studies, High Energy Density Science, Radiation Physics		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Energy Science and Engineering</li> </ul>

Associate Professor	HIJIKATA, Wataru	Mechatronics, Medical Device, Wireless Power Transmission		• Engineering Sciences and Design • Mechanical Engineering
Associate Professor	INABA, Kazuaki	Continuum Mechanics		• Engineering Sciences and Design • Mechanical Engineering
Associate Professor	ISHIDA, Tadashi	Biomedical MEMS, Nanobiology		• Human Centered Science and Biomedical Engineering • Mechanical Engineering
Associate Professor	KIKURA, Hiroshige	Nuclear Reactor Safety, Process Control and Measurement System, Thermal Hydraulics, Safe Transport of Radioactive Material		Nuclear Engineering
Associate Professor	KIM, Joon-wan	MEMS, Micro Mechatronics, Bio Mechatronics		• Mechanical Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	MATSUMURA, Shigeki	Vibration Measurement and Analysis		• Engineering Sciences and Design • Mechanical Engineering
Associate Professor	MIZUTANI, Yoshihiro	Structural Reliability Engineering		• Mechanical Engineering • Engineering Sciences and Design
Associate Professor	MURAKAMI, Yoichi	Molecular Energy Engineering, Thermal Engineering, Photon Engineering, Functional Materials Development		• Mechanical Engineering • Energy Science and Engineering
Associate Professor	☆NAGASAKI, Takao	Thermal Engineering, Heat and Mass Transfer with Phase Change, Numerical Analysis of Heat and Fluid Flow		• Energy Science and Engineering • Mechanical Engineering
Associate Professor	NAKANO, Yutaka	Vibration Engineering		Mechanical Engineering
Associate Professor	NAKANISHI Hiroki	Space engineering, Space robotics		Mechanical Engineering
Associate Professor	NISHISAKO, Takashi	Nano/micro Fluid, Emulsion, Micro Chemistry, Bio chemistry, MEMS		• Mechanical Engineering
Associate Professor	OKAWA, Seiji	Thermal Science and Engineering		• Energy Science and Engineering • Mechanical Engineering
Associate Professor	OSHIMA, Shuzo	Fluid Science and Engineering		• Mechanical Engineering • Energy Science and Engineering
Associate Professor	SAITO, Takushi	Laser Assisted Manufacturing, Materials Processing		• Mechanical Engineering • Energy Science and Engineering
Associate Professor	SAKAGUCHI, Motoki	Mechanics and Strength of Materials		Mechanical Engineering
Associate Professor	SAKAMOTO, Hiraku	Space Structures, Dynamics, Numerical Analysis		• Engineering Sciences and Design • Mechanical Engineering
Associate Professor	SASABE, Takashi	Advanced Energy Engineering		• Mechanical Engineering • Energy Science and Engineering
Associate Professor	SATO, Chiaki	Adhesion Technology, Composite Materials		• Mechanical Engineering • Engineering Sciences and Design
Associate Professor	SATO, Susumu	Thermodynamics, Combustion Reaction, Exhaust Emission, Alternative Fuel		• Mechanical Engineering • Energy Science and Engineering
Associate Professor	SHIMURA, Masayasu	Fluid Dynamics, Heat and Mass Transfer, Combustion, Combustion Control		• Energy Science and Engineering • Mechanical Engineering
Associate Professor	SUGAHARA, Yusuke	Mechanical Systems Design		• Mechanical Engineering • Engineering Sciences and Design
Associate Professor	TADANO, Kotaro	Medical Robots, Man-Machine System		• Human Centered Science and Biomedical Engineering • Mechanical Engineering
Associate Professor	TANAKA, Hiroto	Biomimetics, Biomechanics of Animal Flight and Swimming, Flapping-wing Aerial Robotics		Mechanical Engineering
Associate Professor	TANAKA, Shinji	Tribology		• Mechanical Engineering • Engineering Sciences and Design

Associate Professor	TANAKA, Tomohisa	Production engineering, Manufacturing, Tribology		Mechanical Engineering
Associate Professor	YAGI, Tohru	Neural Engineering, Human Interface, Vision		<ul style="list-style-type: none"> <li>• Human Centered Science and Biomedical Engineering</li> <li>• Engineering Sciences and Design</li> <li>• Mechanical Engineering</li> </ul>
Associate Professor	YAMAMOTO, Takatoki	Bionanotechnology, Micro TAS		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Human Centered Science and Biomedical Engineering</li> </ul>
Associate Professor	YAMAZAKI, Takahisa	Materials for Space Use, Advanced Joining and Surface Coating		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Engineering Sciences and Design</li> </ul>
Associate Professor	YOSHIDA, Takako	Applied Brain Science		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Human Centered Science and Biomedical Engineering</li> </ul>
Associate Professor	YOSHIOKA, Hayato	Ultraprecision Mechanical System		<ul style="list-style-type: none"> <li>• Mechanical Engineering</li> <li>• Engineering Sciences and Design</li> </ul>

☆ indicates person who will retire in March, 2021.

### (5)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	DEGUCHI, Hiroshi	Evolutionary Economics, Agent-Based Modeling		Systems and Control Engineering
Professor	FUJITA, Masayuki	Systems and Control		Systems and Control Engineering
Professor	HACHIYA, Hiroyuki	Ultrasonic Measurements, Acoustic Imaging		Systems and Control Engineering
Specially Appointed Associate Professor (Lecturer)	ITOYAMA, Katsutoshi	Music Information Processing, Statistical Signal Processing, Machine, Learning, Robot Audition, Animal Sound Analysis		Systems and Control Engineering
Professor	IMURA, Jun-ichi	Robot Intelligent Control, Control Theory Hybrid Systems Theory		Systems and Control Engineering
Professor	KOSAKA, Hidenori	Thermodynamics, Fluid Dynamics, Internal Combustion Engine		Systems and Control Engineering
Professor	KURABAYASHI, Daisuke	Biorobotic systems, Distributed systems, Motion planning		<ul style="list-style-type: none"> <li>• Systems and Control Engineering</li> <li>• Engineering Sciences and Design</li> </ul>
Professor	MIYAKE, Yoshihiro	Co-creation System, Human Communication, Cognitive Science, Self-Organization, Human Interface		Systems and Control Engineering
Specially Appointed Professor	*NAKADAI, Kazuhiro	Robot Audition, Computational Auditory Scene Analysis, Human-Machine Interaction		Systems and Control Engineering
Professor	NAKASHIMA, Motomu	Sports Engineering, Biomechanics, Biorobotics, Musculoskeletal Analysis, Welfare Engineering		Systems and Control Engineering
Professor	OKUTOMI, Masatoshi	Computer Vision, Image Processing		Systems and Control Engineering
Professor	SAMPEI, Mitsuji	Control Theory		<ul style="list-style-type: none"> <li>• Systems and Control Engineering</li> <li>• Engineering Sciences and Design</li> </ul>
Professor	YAMAMURA, Masayuki	DNA Computing, Natural Computing, Systems Biology		Systems and Control Engineering
Associate Professor	AONISHI, Toru	Computational Neuroscience, Statistical Mechanics		Systems and Control Engineering
Associate Professor	HARA, Seiichiro	Surface Metrology, Measurement Information Processing		Systems and Control Engineering

Associate Professor	HASEGAWA, Osamu	Pattern based Artificial Intelligence, Artificial Brain (SOINN), Cognitive Robotics		* Engineering Sciences and Design * Systems and Control Engineering
Visiting Associate Professor	HATANAKA, Takeshi	Control of network systems		Systems and Control Engineering
Associate Professor	HAYAKAWA, Tomohisa	Control Theory, Dynamical Systems Theory		Systems and Control Engineering
Associate Professor	ISHII, Hideaki	Systems and Control, Control Over Networks		Systems and Control Engineering
Associate Professor	MIYAZAKI, Yusuke	Biomechanics, Injury Preventive Engineering, Digital Human Modeling		Systems and Control Engineering
Associate Professor	NAKAO, Hiroya	Nonlinear Dynamics, Stochastic Processes, Self-organization Phenomena		Systems and Control Engineering
Specially Appointed Associate Professor	NISHIDA Kenji	statistical pattern recognition, computer vision, machine learning, intelligent driving (pedestrian detection, obstacle detection)		Systems and Control Engineering
Associate Professor	OHYAMA, Shinji	Measurement Science		Systems and Control Engineering
Associate Professor	ONO, Isao	Evolutionary Computation, Optimization		Systems and Control Engineering
Associate Professor	SATO, Susumu	Thermodynamics, Combustion Reaction, Exhaust Emission, Alternative Fuel		Systems and Control Engineering
Associate Professor	TAKAYASU, Misako	Statistical Physics, Econophysics, Complex Networks		Systems and Control Engineering
Associate Professor	TAKINOUE, Masahiro	Biophysics, Nonlinear nonequilibrium science, Microfluidics, Artificial Cell, Molecular Robotics		Systems and Control Engineering
Visiting Associate Professor	**TANAKA, Masayuki	Computational photography, Image processing		Systems and Control Engineering
Associate Professor	TSUKAGOSHI, Hideyuki	Search and rescue robot, Fluid powered robot, Medical actuator		Systems and Control Engineering
Associate Professor	YAMAKITA, Masaki	Control Engineering, Robotics		* Systems and Control Engineering * Engineering Sciences and Design

\* indicates person who belongs to Honda Research Institute. Please make contact with Daisuke Kurabayashi, the chair of the department, in advance.

\*\* indicates person who belongs to the National Institute of Advanced Industrial Science and Technology (AIST) through the personnel exchange program. Please make contact with Daisuke Kurabayashi, the chair of the department, in advance.

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

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	☆ARAI, Shigehisa	Semiconductor Optical Devices, Opto- and Quantum electronics, Optical Communication		Electrical and Electronic Engineering
Professor	ASADA, Masahiro	Semiconductor Nano-Devices, High-Speed Devices, Terahertz Devices		Electrical and Electronic Engineering
Professor	CHIBA, Akira	Drive Electronics, Power Mechatronics, Intelligent Drive		* Electrical and Electronic Engineering * Energy Science and Engineering
Professor	FUJITA, Hideaki	Power Electronics, Electrical Machinery		* Energy Science and Engineering * Electrical and Electronic Engineering
Professor	HATANO, Mutsuko	Applied Physics, Electron Devices, Electronic Materials		* Energy Science and Engineering * Electrical and Electronic Engineering
Professor	HIROKAWA, Jiro	Antennas for high-rate data transmission		Electrical and Electronic Engineering
Professor	KAJIKAWA, Kotaro	Plasmonics, Metamaterials, Nonlinear Optics		* Human Centered Science and Biomedical Engineering * Electrical and Electronic Engineering

Professor	KOYAMA, Fumio	Photonic Integrated Devices for Optical Communication, Optical Sensing		Electrical and Electronic Engineering
Professor	MANAKA, Takaaki	Organic Devices, Nonlinear Optics		Electrical and Electronic Engineering
Professor	MIYAMOTO, Yasuyuki	Semiconductor Process/Devices		Electrical and Electronic Engineering
Professor	✂MIZUMOTO, Tetsuya	Lightwave Circuits, Integrated Optics		Electrical and Electronic Engineering
Professor	NAKAGAWA, Shigeki	Spintronics, Information Storage Devices, Magnetic Thin Film Devices		Electrical and Electronic Engineering
Professor	NAKAMURA, Kentaro	Optical Sensing, Applied Acoustic Devices		• Human Centered Science and Biomedical Engineering • Electrical and Electronic Engineering
Professor	☆☆NANAHARA, Toshiya	Power Systems, Renewable energy		• Electrical and Electronic Engineering • Energy Science and Engineering
Professor	OGURI, Yoshiyuki	Environmental- and Medical Sciences Based on MeV Ion Beams		Nuclear Engineering
Professor	SAKAGUCHI, Kei	Wireless communications, 5G, IoT, mmWave, Wireless power transmission, Connected car, Automated driving		Electrical and Electronic Engineering
Professor	TSUTSUI, Kazuo	Semiconductor Devices, Device Processes		Electrical and Electronic Engineering
Professor	UENOHARA, Hiroyuki	Optical Communications, Photonic Switching, Photonic Integration, Optical Signal Processing		Electrical and Electronic Engineering
Professor	WAKABAYASHI, Hitoshi	Semiconductor Devices, Nano-electronics, LSI		Electrical and Electronic Engineering
Professor	YAMADA, Akira	Semiconductor Physics, Solar Cells, Compound Thin-Film Solar Cells		• Energy Science and Engineering • Electrical and Electronic Engineering
Professor	YASUOKA, Koichi	High-voltage and Plasma Engineering		• Electrical and Electronic Engineering • Energy Science and Engineering
Specially Appointed Professor	○FUJII, Teruya	Novel 3-Dimension(3D) space cell structure, Radio and network control architecture for 3D space cell structure, Radio propagation for ultra-wideband radio system and 3D space cell structure		Electrical and Electronic Engineering
Specially Appointed Professor	○KATOH, Takashi	Organic Electro Photo-functionality Materials		Electrical and Electronic Engineering
Visiting Professor	○HISAMOTO, Digh	Semiconductor Process, Semiconductor Devices		• Energy Science and Engineering • Electrical and Electronic Engineering
Associate Professor	AKATSUKA, Hiroshi	Low-Temperature Plasma Chemistry and Physics		Nuclear Engineering
Associate Professor	AOYAGI, Takahiro	Electromagnetic Compatibility (EMC), Wave Propagation		Electrical and Electronic Engineering
Associate Professor	HAGIWARA, Makoto	Power Electronics, Smart Grid, Renewable Energy		• Energy Science and Engineering • Electrical and Electronic Engineering
Associate Professor	IINO, Hiroaki	Organic Electronics, TFT, Imaging Devices		Electrical and Electronic Engineering
Associate Professor	ITO, Haruhiko	Opto-Quantum Electronics		Electrical and Electronic Engineering
Associate Professor	ITO, Hiroyuki	RF Integrated Circuits for Communication, Hardware Technologies for Cyber Physical System		Electrical and Electronic Engineering
Associate Professor	IWASAKI, Takayuki	Sensor Device, Diamond Quantum Sensor, Solid-state Quantum Emitter		• Electrical and Electronic Engineering • Energy Science and Engineering

Associate Professor	KAKUSHIMA, Kuniyuki	Nanoelectronics and MEMS		Electrical and Electronic Engineering
Associate Professor	KAWANO, Yukio	Nano Electronics and Mechanics, Solid-State Physics and Engineering		Electrical and Electronic Engineering
Associate Professor	KODERA, Tetsuo	Quantum Information Devices, Quantum technology		• Electrical and Electronic Engineering • Energy Science and Engineering
Associate Professor	KUROSAWA, Minoru	Electro-mechanical Transducer, Actuators and Sensors, Mechatronics		Electrical and Electronic Engineering
Associate Professor	MIYAJIMA, Shinsuke	Photovoltaic materials and devices		• Energy Science and Engineering • Electrical and Electronic Engineering
Associate Professor	MIYAMOTO, Tomoyuki	Semiconductor Opto-electronic Devices		Electrical and Electronic Engineering
Associate Professor	NISHIKATA, Atsuhiko	Electromagnetic Compatibility (EMC), Material Measurement, Auditory Information		Electrical and Electronic Engineering
Associate Professor	NISHIYAMA, Nobuhiko	Optical Circuits, Semiconductor Optical Devices, Optical Transmission Systems		Electrical and Electronic Engineering
Associate Professor	OHMI, Shun-ichiro	Semiconductor Devices		Electrical and Electronic Engineering
Associate Professor	OKADA, Kenichi	Wireless Circuit Design, Analog Circuit Design		Electrical and Electronic Engineering
Associate Professor	PHAM, Nam Hai	Semiconductor Spintronic Materials, Magnetic Semiconductors, Spintronic Devices		Electrical and Electronic Engineering
Associate Professor	SHOJI, Yuya	Lightwave Circuits, Optical Communication		Electrical and Electronic Engineering
Associate Professor	SUGAHARA, Satoshi	Integrated Devices and Circuits		Electrical and Electronic Engineering
Associate Professor	SUZUKI, Safumi	Ultra High-Speed Electronic Devices, Terahertz Wireless Communication		Electrical and Electronic Engineering
Associate Professor	TABARU, Marie	Biomedical Engineering Measurement, Agricultural Engineering Measurement, Acoustic Engineering		• Human Centered Science and Biomedical Engineering • Electrical and Electronic Engineering
Associate Professor	WATANABE, Masahiro	Quantum Devices, Hetero-epitaxial Engineering		Electrical and Electronic Engineering

☆ indicates person who will retire in March, 2019.

☆☆ indicates person who will retire in March, 2020.

○ indicates the person who can only be an academic co-supervisor.

⊗ indicates person who may not be an academic supervisor for other reasons.

### (7)Dept. of Information and Communications Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	FUKAWA, Kazuhiko	Mobile Communications, Signal Processing, Adaptive Filter Theory		Information and Communications Engineering
Professor	ISSHIKI, Tsuyoshi	System-LSI Design Methodology, Embedded Processor Design		Information and Communications Engineering
Professor	KANEKO, Hirohiko	Visual Information Processing, Human Space Perception, Sensory and Motor Measurements		• Human Centered Science and Biomedical Engineering • Information and Communications Engineering
Professor	KOIKE, Yasuharu	Human Interface, Computational Neuroscience		• Human Centered Science and Biomedical Engineering • Information and Communications Engineering
Professor	KUMAZAWA, Itsuo	Neural Networks, Cognitive Science, Image Processing, Image Encoding, Pattern Recognition, User Interfaces		Information and Communications Engineering

Professor	NAKAMOTO, Takamichi	Human Interface, Olfactory Display, Odor Sensing System, Sensor Information Processing		Information and Communications Engineering
Professor	NAKAMURA, Kentaro	Optical Sensing, Applied Acoustic Devices		Information and Communications Engineering
Professor	NAKAYAMA, Minoru	Human Factors, Visual Perception, Language Processing, Educational System Evaluation, Educational Technology		Information and Communications Engineering
Professor	OGATA, Wakaha	Modern Cryptography, Cryptographic Protocol, Provable Security	Doctoral program only	Information and Communications Engineering
Professor	OKUMURA, Manabu	Natural Language Processing, Text Summarization, Text Mining, Sentiment Analysis		Information and Communications Engineering
Professor	TAKAGI, Shigetaka	Integrated Circuits, Circuit Theory	Doctoral program only	Information and Communications Engineering
Professor	TAKAHASHI, Atsushi	VLSI CAD, Physical Design, Synchronous Circuits	Doctoral program only	Information and Communications Engineering
Professor	TAKAMURA, Hiroya	Natural Language Processing, Computational Linguistics		Information and Communications Engineering
Professor	UYEMATSU, Tomohiko	Information Theory, Coding Theory	Doctoral program only	Information and Communications Engineering
Professor	YAMADA, Isao	Signal Processing, Optimization Theory, Inverse Problems	Doctoral program only	Information and Communications Engineering
Professor	YAMAGUCHI, Masahiro	Optical Imaging and Display, Color Imaging, Holography		• Human Centered Science and Biomedical Engineering • Information and Communications Engineering
Professor	YAMAOKA, Katsunori	Information and Communication Network	Doctoral program only	Information and Communications Engineering
Specially Appointed Professor	HOLME, Petter	Network Science, Computational Social Science	Doctoral program only	Information and Communications Engineering
Specially Appointed Professor	OKASHINO, Makio	Cognitive Neuroscience, Hearing, Autism, Sports		Information and Communications Engineering
Specially Appointed Professor	OSATO, Imari	Computer Vision, Computer Graphics, Image-Based Modeling and Rendering, Machine Learning		Information and Communications Engineering
Specially Appointed Professor	SUZUKI, Kenji	Deep learning, Machine learning, Computer-aided Diagnosis, Biomedical Image Understanding, Artificial Intelligence.		Information and Communications Engineering
Associate Professor	HARA, Yuko	Hardware/Software Co-design, Reliable Embedded Systems	Doctoral program only	Information and Communications Engineering
Associate Professor	HASEGAWA, Shoichi	Physics Engine, Character motion, Haptics, Virtual Reality, Human Computer Interaction, Entertainment Computing		Information and Communications Engineering
Associate Professor	KASAI, Kenta	Coding Theory, LDPC Codes, Spatially Coupled Codes	Doctoral program only	Information and Communications Engineering
Associate Professor	KITAGUCHI, Yoshiaki	Network Operations Management, Network Security	Doctoral program only	Information and Communications Engineering
Associate Professor	KUROSAWA, Minoru	Electro-mechanical Transducer, Actuators and Sensors, Mechatronics		Information and Communications Engineering
Associate Professor	NAGAI, Takehiro	Color Science and Technology, Material Perception Science, Visual Psychophysics		• Information and Communications Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	NAKAHARA, Hiroki	Reconfigurable Computing, FPGA, Machine Learning, Radio Telescope	Doctoral program only	Information and Communications Engineering
Associate Professor	OBI, Takashi	Image Reconstruction, Information Security, Social Information System		• Information and Communications Engineering • Human Centered Science and Biomedical Engineering

Associate Professor	SHINOZAKI, Takahiro	Speech Recognition, Speech Signal Processing, Machine Learning		*Information and Communications Engineering *Human Centered Science and Biomedical Engineering
Associate Professor	SUGINO, Nobuhiko	Code Optimization Methods for VLIWs and GPGPU, Automatic Parallelizing Compilers, Implementation Techniques of Digital Signal Processing		Information and Communications Engineering
Associate Professor	TABARU, Marie	Biomedical Engineering Measurement, Agricultural Engineering Measurement, Acoustic Engineering		Information and Communications Engineering
Associate Professor	WATANABE, Yoshihiro	Computer Vision, Augmented Reality, Digital Archiving, Human-computer Interaction		Information and Communications Engineering
Associate Professor	YOSHIMURA, Natsue	Brain Activity Decoding, Human Interface, Computational Neuroscience		*Human Centered Science and Biomedical Engineering *Information and Communications Engineering
Specially Appointed Associated Professor	BERRAR, Daniel	Data science, Machine learning, Bioinformatics	Doctoral program only	Information and Communications Engineering

○ indicates the person who can only be an academic co-supervisor.

### (8)Dept. of Industrial Engineering and Economics

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	INOUE, Kotaro	Corporate Finance, Corporate Governance		Industrial Engineering and Economics
Professor	ITOH, Kenji	Ergonomics, Cognitive Engineering, Safety Engineering		Industrial Engineering and Economics
Professor	MATSUI, Tomomi	Optimization Theory, Combinatorics, Operations Research		Industrial Engineering and Economics
Professor	MIYAKAWA, Masami	Applied Statistics, Quality Control, Reliability		Industrial Engineering and Economics
Professor	MIZUNO, Shinji	Numerical Optimization, Operations Research, Financial Engineering		Industrial Engineering and Economics
Professor	SENOO, Dai	Knowledge Management, Leadership		*Industrial Engineering and Economics *Engineering Sciences and Design
Professor	UMEMURO, Hiroyuki	Affect and Emotion, Gerontechnology, Human Factors		*Industrial Engineering and Economics *Engineering Sciences and Design
Professor	YAMAMURO, Kyoko	History of Japan		Industrial Engineering and Economics
Professor	YAMATO, Takehiko	Economic Theory, Experimental Economics		Industrial Engineering and Economics
Associate Professor	AOKI, Hirotaka	Human Factors and Ergonomics, Industrial Engineering		Industrial Engineering and Economics
Associate Professor	CHUNG, Sulin	Marketing, Retailing		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	KAWASAKI, Ryo	Mathematical Economics, Game Theory		Industrial Engineering and Economics
Associate Professor	NAGATA, Kyoko	Accounting Information, M&A		Industrial Engineering and Economics
Associate Professor	NAKATA, Kazuhide	Managerial Mathematics, Operations Research, Financial Engineering		Industrial Engineering and Economics



Associate Professor	OHDOI, Ryoji	Dynamic Macroeconomics		Industrial Engineering and Economics
Associate Professor	SHIOURA, Akiyoshi	Discrete Optimization, Operations Research, Design and Analysis of Mathematical Systems		Industrial Engineering and Economics
Associate Professor	SUZUKI, Sadami	Production and Operations Management		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

## School of Materials and Chemical Technology

### (9)Dept. of Materials Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	AZUMA, Masaki	Solid State Chemistry		Materials Science and Engineering
Professor	FUJII, Toshiyuki	Crystallography of Microstructures		Materials Science and Engineering
Professor	FUNAKUBO, Hiroshi	Materials Science, Thin Film Devices		Materials Science and Engineering
Professor	HARA, Michikazu	Catalysis, Surface Science		• Materials Science and Engineering • Energy Science and Engineering
Professor	HOSODA, Hideki	Materials Design, Shape Memory Alloys, Intermetallic Compounds		• Materials Science and Engineering • Energy Science and Engineering
Professor	*HOSONO, Hideo	Electronic Materials, Superconductors, Oxide Semiconductors, Organic LED	Doctoral program only	Materials Science and Engineering
Professor	**ITO, Mitsuru	Inorganic Solid-State Chemistry		Materials Science and Engineering
Professor	**KAJIHARA, Masanori	Thermodynamics and Kinetics of Phase Transformations		Materials Science and Engineering
Professor	KAMIYA, Toshio	Semiconductors, Optoelectronic Devices, Computer simulation		Materials Science and Engineering
Professor	KAWAJI, Hitoshi	Physical Chemistry of Materials, Phase Transition		Materials Science and Engineering
Professor	**KIKUTANI, Takeshi	Fiber and Polymer Processing, Physical Properties of Polymers		Materials Science and Engineering
Professor	KITAMOTO, Yoshitaka	Nanoparticles, Magnetic Materials and Devices, Spintronics		• Human Centered Science and Biomedical Engineering • Materials Science and Engineering
Professor	KOBAYASHI, Yoshinao	Safety Metallurgy for Nuclear Reactors, Phase Stability, Degradation of Materials in Reactors, Waste Management		• Nuclear Engineering • Materials Science and Engineering
Professor	KUMAI, Shinji	Mechanical Metallurgy, Fatigue, Joining and Solidification		Materials Science and Engineering
Professor	MAJIMA, Yutaka	Nanoscale Electronic Materials, Molecular Devices, Scanning Probe Microscopy		Materials Science and Engineering
Professor	MIYAUCHI, Masahiro	Photo-electrochemistry, Photocatalysis, Chemical Synthesis of Nanoparticles		• Materials Science and Engineering • Energy Science and Engineering

Professor	MORI, Takehiko	Organic Electronics		• Energy Science and Engineering • Materials Science and Engineering
Professor	MORIKAWA, Junko	Polymer Processing, Thermal Properties of Polymers		• Human Centered Science and Biomedical Engineering • Materials Science and Engineering
Professor	NAKAJIMA, Akira	Environmental Ceramics, Surface Functional Materials		Materials Science and Engineering
Professor	NAKAMURA, Yoshio	Applied Diffraction Crystallography, Nano-Structured Materials		Materials Science and Engineering
Professor	NISHIKATA, Atsushi	Metallurgical Electrochemistry, High Temperature Electrochemistry, Corrosion		Materials Science and Engineering
Professor	OBA, Fumiyasu	Computational Design of Electronic and Energy Materials		Materials Science and Engineering
Professor	ONAKA, Susumu	Mechanical Properties of Materials		Materials Science and Engineering
Professor	OUCHI, Yukio	Physical Chemistry of Organic Materials, Surface and Interface of Soft-Materials, Electrochemistry of Ionic Liquids		Materials Science and Engineering
Professor	OUGIZAWA, Toshiaki	Physical Chemistry of Polymeric Materials		Materials Science and Engineering
Professor	SHI, Ji	Physical Properties of Metals, Magnetic Thin Films		• Energy Science and Engineering • Materials Science and Engineering
Professor	SONE, Masato	Material Fabrication and Evaluation for IC & MEMS		• Materials Science and Engineering • Human Centered Science and Biomedical Engineering
Professor	SUSA, Masahiro	Physical Chemistry of Metals, Materials Metrology		• Energy Science and Engineering • Materials Science and Engineering
Professor	TAKEYAMA, Masao	Physical Metallurgy of Intermetallic and Ferrous Materials, Phase Transformations of Alloys, Deformation in Solid		• Materials Science and Engineering • Energy Science and Engineering
Professor	TSURUMI, Takaaki	Dielectrics and Energy Storage Capacitors		Materials Science and Engineering
Professor	VACHA, Martin	Optical Properties of Organic Materials		Materials Science and Engineering
Professor	WAKAI, Fumihiko	Mechanical Properties of Ceramic Materials		• Materials Science and Engineering • Energy Science and Engineering
Professor	YANO, Tetsuji	Inorganic Glasses, Ion-Dynamics and Optical Properties		Materials Science and Engineering
Professor	YOSHIMOTO, Mamoru	Oxide Nano-Engineering, Device, Solar cell		• Energy Science and Engineering • Materials Science and Engineering
Specially Appointed Professor	ABE, Hideki	Polymer Chemistry		Human Centered Science and Biomedical Engineering
Specially Appointed Professor	SAKATA, Osami	Materials Analysis using Synchrotron Radiation, Functional thin films, Surfaces, Nano-particle		Energy Science and Engineering
Associate Professor	ASAI, Shigeo	Physical Properties of Organic Materials, Polymer Composites		Materials Science and Engineering
Associate Professor	AZUMA, Yasuo	Nanofabrication, Nano Device, Single-Electron Transistor		Materials Science and Engineering
Associate Professor	GOHDA, Yoshihiro	Surface and Interface Physics (Theoretical Calculations)		Materials Science and Engineering
Professor	HAYAKAWA, Teruaki	Polymer Synthesis, Polymer Thin Films, Self-Organizing Organic and Polymeric Materials		Materials Science and Engineering
Associate Professor	HAYAMIZU, Yuhei	Bio-interface, Nano Materials		Materials Science and Engineering

Associate Professor	HAYASHI, Miyuki	Thermophysical Properties of Materials, High Temperature Process Control		• Energy Science and Engineering • Materials Science and Engineering
Associate Professor	HAYASHI, Tomohiro	Nanoscience & Nanotechnology, Surface & Interface Science, Scanning Probe Microscopy, Nanophotonics		• Human Centered Science and Biomedical Engineering • Materials Science and Engineering
Associate Professor	HIRAMATSU, Hidenori	Superconducting Materials and Devices		Materials Science and Engineering
Associate Professor	IKOMA, Toshiyuki	Bioceramics, Biosensing, Nanomedicine, Tissue Engineering		• Materials Science and Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	INAMURA, Tomonari	Shape Memory Alloy, Crystallography of Phase Transformation		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	ISHIKAWA, Ken	Optical and Electrical Properties of Organic Materials		Materials Science and Engineering
Associate Professor	KAMATA, Keigo	Catalytic Chemistry, Environment-Friendly Chemical Process		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	KATASE, Takayoshi	Oxide electronics, Energy materials, Thin film device		Materials Science and Engineering
Associate Professor	KAWAMURA, Kenichi	High Temperature Physical Chemistry, Solid State Ionics		Materials Science and Engineering
Associate Professor	KIMURA, Yoshisato	Heat Resistant Alloys and Thermoelectric Materials Design based on Phase Equilibria and Microstructure		• Energy Science and Engineering • Materials Science and Engineering
Associate Professor	KITANO, Masaaki	Heterogeneous Catalyst, Ammonia Synthesis, Acid Base Catalyst		Materials Science and Engineering
Associate Professor	KOBAYASHI, Equo	Physical Metallurgy of Non-ferrous Metals and Intermetallics, Design and Evaluation of Biomedical Materials		• Materials Science and Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	KOBAYASHI, Satoru	Phase diagrams and phase transformations in alloys, Physical metallurgy of ferrous alloys, Heat resistant steels and alloys		Materials Science and Engineering
Associate Professor	MATSUDA, Akifumi	Atomic-scale Materials Engineering, Materials for Electronics and Energy Applications		• Energy Science and Engineering • Materials Science and Engineering
Associate Professor	MATSUISHI, Satoru	Synthesis and Characterization of Superconducting and Electro-Active Materials		Materials Science and Engineering
Associate Professor	MATSUMOTO, Hidetoshi	Functional Nanomaterials, Polymer Membranes and Thin Films, Energy-Related Materials		• Energy Science and Engineering • Materials Science and Engineering
Associate Professor	MATSUSHITA, Nobuhiro	Novel Processes for Electronic, Energy and Biomedical Materials		• Materials Science and Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	MATSUSHITA, Sachiko	Thermoelectronics, Plasmonics, Fabrication of Nanostructures		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	MICHINOBU, Tsuyoshi	Polymer Synthesis, Semiconducting Polymers		Materials Science and Engineering
Associate Professor	MURAISHI, Shinji	Micromechanics, Nanostructured Material, Crystal Defects		Materials Science and Engineering
Associate Professor	NAKADA, Nobuo	Microstructure and Mechanical Properties of Iron and Steels		Materials Science and Engineering
Associate Professor	NAKAMURA, Kazutaka	Laser Spectroscopy		Materials Science and Engineering
Associate Professor	NAKATSUJI, Kan	Surface and Interface Physics		Materials Science and Engineering
Associate Professor	SANNOMIYA, Takumi	Plasmonic Materials, Electron Microscopy		Materials Science and Engineering
Associate Professor	SASAGAWA, Takao	Strongly Correlated Electron Systems		• Materials Science and Engineering • Energy Science and Engineering

Associate Professor	SHIOYA, Masatoshi	Structure and Mechanical Properties of Carbon Materials, Fibers and Composite Materials		Materials Science and Engineering
Associate Professor	TADA, Eiji	Corrosion and Environmental Degradation of Materials		Materials Science and Engineering
Associate Professor	TADA, Tomofumi	Quantum Chemistry for Device Modeling		Materials Science and Engineering
Associate Professor	TAKEDA, Hiroaki	Electroceramics, Crystal Growth of Functional materials		• Materials Science and Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	TANIYAMA, Tomoyasu	Magnetism in Nanostructures, Spin Electronics, Multiferroics		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	TERADA, Yoshihiro	Microstructure Control, Mechanical Properties, Heat-Resistant Materials		Materials Science and Engineering
Associate Professor	TSUGE, Takeharu	Biodegradable Plastics		• Human Centered Science and Biomedical Engineering • Materials Science and Engineering
Associate Professor	UEDA, Mitsutoshi	High Temperature Oxidation of Metals, Defect Chemistry in Oxides, Physical Chemistry at High Temperature		• Energy Science and Engineering • Materials Science and Engineering
Associate Professor	YASUDA, Kouichi	Engineering Ceramics and Composites, Micromechanics, Fracture Statistics		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	YOSHIDA, Katsumi	Severe environment resistant materials, Materials for nuclear and fusion applications, Ceramic-based composites, High performance porous ceramics		• Nuclear Engineering • Materials Science and Engineering

\*indicates person who will retire in March, 2019.

\*\* indicates person who will retire in March, 2020.

### (10)Dept. of Chemical Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	AKITA, Munetaka	Organometallic Chemistry, Organic Photocatalysis, Molecular Devices		Chemical Science and Engineering
Professor	ANDO, Shinji	Structure and Physical Properties of Polymeric Functional Materials in Solids		Chemical Science and Engineering
Professor	ARAI, Hajime	Secondary battery, Metal-air battery, Electrochemistry, Operando (In situ) analysis		Energy Science and Engineering Chemical Science and Engineering
Professor	FUKUSHIMA, Takanori	Organic Functional Materials, Nanomaterials, $\pi$ -Electronic Systems, Molecular Assembly		Chemical Science and Engineering
Professor	HARA, Masahiko	Materials Chemistry, Self-Assembly, Surface & Interface, Scanning Probe Microscopy, Nanophotonics, Biointerface, Chemical Evolution & Origins of Life	also Affiliated Faculty at Earth-Life Science Institute (Ookayama Campus)	• Chemical Science and Engineering • Energy Science and Engineering
Professor	IHARA, Manabu	Energy Conversion on Chemical Engineering, Electrochemistry, Fuel Cells, Solar Cells, Energy system		• Energy Science and Engineering • Chemical Science and Engineering
Professor	ISHIZONE, Takashi	Polymer Synthesis, Living Polymerization		Chemical Science and Engineering
Professor	KANNO, Ryoji	Solid State Electrochemistry, Inorganic Materials Chemistry, Battery, Fuel Cell		• Energy Science and Engineering • Chemical Science and Engineering
Professor	KATO, Yukitaka	Energy Conversion, Energy Storage, Chemical Heat Pump, Carbon Recycling Energy System, Hydrogen Energy, Nuclear Energy Utilization System		Nuclear Engineering
Professor	KUBOUCHI, Masatoshi	Polymeric Materials for Chemical Plant, Composite Materials, Material Science, Graphene		Chemical Science and Engineering
Professor	NAKAJIMA, Ken	Polymer Physics, Rubber Industry, Atomic Force Microscopy		Chemical Science and Engineering

Professor	OKOCHI, Mina	Biotechnology, Biochemical Engineering, Peptide Engineering		Chemical Science and Engineering
Professor	OTSUKA, Hideyuki	Polymer Reactions, Smart Polymeric Materials, Polymer Synthesis		Chemical Science and Engineering
Professor	SEKIGUCHI, Hidetoshi	Plasma Processing, Thermo-chemical Engineering		• Chemical Science and Engineering • Energy Science and Engineering
Professor	SERIZAWA, Takeshi	Biomacromolecular Chemistry, Biomaterials Science and Engineering, Molecular Assembly		Chemical Science and Engineering
Professor	SHISHIDO, Atsushi	Polymer Chemistry, Materials Chemistry		• Energy Science and Engineering • Chemical Science and Engineering
Professor	TAGO, Teruoki	Chemical Reaction Engineering, Catalytic Reaction Engineering, Catalyst & Environmental Chemical Process		• Chemical Science and Engineering • Energy Science and Engineering
Professor	TOMITA, Ikuyoshi	Polymer Synthetic Chemistry		• Energy Science and Engineering • Chemical Science and Engineering
Professor	YAMAGUCHI, Takeo	Fuel Cell Engineering, Bio-inspired Materials, Membrane Science		• Chemical Science and Engineering • Energy Science and Engineering
Professor	YAMAMOTO, Kimihisa	Nano-materials Chemistry, Metallochemistry, Macromolecular Science		Chemical Science and Engineering
Professor	YAMANAKA, Ichiro	Electrochemistry, Oxidation Chemistry		• Chemical Science and Engineering • Energy Science and Engineering
Professor	TANAKA, Ken	Synthetic Organic Chemistry, Asymmetric Synthesis, Organometallic Chemistry		Chemical Science and Engineering
Professor	OHTOMO, Akira	Inorganic Solid State Chemistry, Thin Film, Surface and Interface, Device Physics		• Chemical Science and Engineering • Materials Science and Engineering
Professor	MURAHASHI, Tetsuro	Synthetic Inorganic and Organometallic Chemistry, Coordination Chemistry		Chemical Science and Engineering
Professor	HITOSUGI, Taro	Nanoscience, Solid-state chemistry, Solid-state electrochemistry		• Chemical Science and Engineering • Materials Science and Engineering
Associate Professor	AOKI, Saiko	Tribology, Surface Engineering		• Chemical Science and Engineering • Energy Science and Engineering
Associate Professor	FUCHINO, Tetsuo	Process Systems Engineering, Product Management		Chemical Science and Engineering
Associate Professor	FURUYA, Hidemine	Structures and Physical Properties of Polymers		Chemical Science and Engineering
Associate Professor	HIRAYAMA, Masaaki	Energy Conversion Materials, Inorganic and Solid State Chemistry, Electrochemical Interface		• Energy Science and Engineering • Chemical Science and Engineering
Associate Professor	IMAOKA, Takane	$\pi$ -Conjugating Molecular Chemistry, Electron Transfer Chemistry, Nanomaterial Science		Chemical Science and Engineering
Associate Professor	INAGI, Shinsuke	Organic Electrochemistry, Polymer Chemistry		• Energy Science and Engineering • Chemical Science and Engineering
Associate Professor	KAWAUCHI, Susumu	Computational Chemistry, Quantum Chemistry, Molecular Simulation		Chemical Science and Engineering Energy Science and Engineering Materials Science and Engineering
Associate Professor	KITAMURA, Fusao	Electrochemistry, Spectroscopy, In-situ Spectroelectrochemistry		Energy Science and Engineering
Associate Professor	KOIZUMI, Take-aki	Organometallic Chemistry, Electrocoordination Chemistry		Chemical Science and Engineering
Associate Professor	KONISHI, Gen-ichi	Polymer Synthesis, Photochemistry		Chemical Science and Engineering
Associate Professor	MORI, Shinsuke	Plasma Processing, Heat Transfer		• Chemical Science and Engineering • Energy Science and Engineering

Associate Professor	MOTOKURA, Ken	Heterogeneous Catalysis, Organic Chemistry		• Human Centered Science and Biomedical Engineering • Chemical Science and Engineering
Associate Professor	NAGAI, Keiji	Photoenergy Conversion Materials and Engineering, Organophotocatalyst, High Energy Density States		• Energy Science and Engineering • Chemical Science and Engineering
Associate Professor	NOMURA, Junko	Catalytic Chemistry, Inorganic Synthesis		Chemical Science and Engineering
Specially Appointed Associate Professor	OOKAWARA, Shinichi	Microfluidic Transport Phenomena, CFD (Computational Fluid Dynamics), Microreactor		Chemical Science and Engineering
Associate Professor	SAITO, Reiko	Polymer Synthesis, Template Polymerization, Organic-inorganic Composites		• Energy Science and Engineering • Chemical Science and Engineering
Associate Professor	SHIMOYAMA, Yusuke	Separation Engineering, Supercritical Fluids, Material Process, Separation Process		• Chemical Science and Engineering • Energy Science and Engineering
Associate Professor	TAKAO, Koichiro	Actinide Chemistry, Coordination Chemistry, Nuclear Fuel Cycle, Fuel Reprocessing, Radioactive Wastes, Decontamination		Nuclear Engineering
Associate Professor	TAMAKI, Takanori	Energy Materials, Biomaterials, Bioelectrochemistry		• Chemical Science and Engineering • Energy Science and Engineering
Associate Professor	TANIGUCHI, Izumi	Aerosol Science and Technology, Powder Technology, Functional Material Processing, Energy Materials		• Chemical Science and Engineering • Energy Science and Engineering
Associate Professor	TOKITA, Masatoshi	Polymer Structures and Properties, Liquid Crystals, Polymer Brushes		Chemical Science and Engineering
Associate Professor	TOYODA, Sakae	Environmental Chemistry, Material Cycle Analysis		• Chemical Science and Engineering • Energy Science and Engineering
Associate Professor	TSUKAHARA, Takehiko	Analytical Chemistry of Radionuclides, Radioactive Waste Management, Nuclear Fuel Cycle, Micro-Nano Chemistry, Functional Nanomaterials		Nuclear Engineering
Associate Professor	WADA, Hiroyuki	Optical Materials, Nanoparticles		• Energy Science and Engineering • Chemical Science and Engineering
Associate Professor	WAKI, Keiko	Fuel Cell, Lithium battery, Solar Cell		Energy Science and Engineering
Associate Professor	YAMADA, Keita	Organic Geochemistry, Isotope Chemistry		• Chemical Science and Engineering • Energy Science and Engineering
Associate Professor	YOSHIKAWA, Shiro	Fluid Dynamics, Transport Phenomena		Chemical Science and Engineering
Associate Professor	YOSHIZAWA, Michito	Supramolecular Chemistry, Nanospace Chemistry		Chemical Science and Engineering
Associate Professor	TANAKA, Hiroshi	Synthetic Organic Chemistry, Chemical Biology, Natural Product Chemistry		Chemical Science and Engineering
Associate Professor	OKAMOTO, Masaki	Catalyst Chemistry		Chemical Science and Engineering
Associate Professor	KUWATA, Shigeki,	Coordination Chemistry, Organometallic Chemistry		• Chemical Science and Engineering • Energy Science and Engineering
Associate Professor	ITO, Shigekazu,	Physical Organic Chemistry, Organic Synthesis		Chemical Science and Engineering
Associate Professor	TAKAO, Toshiro	Organometallic Chemistry, Inorganic Chemistry		Chemical Science and Engineering
Associate Professor	YOKOI, Toshiyuki	Catalytic Chemistry, Nanospace Catalysts, Zeolite Science, Green Chemistry		Chemical Science and Engineering

## School of Computing

### (11)Dept. of Mathematical and Computing Science

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Associate Professor	ENDO, Toshio	High-Performance Computing, Parallel Software	GSIC	Mathematical and Computing Science
Associate Professor	FUKUDA, Mituhiro	Mathematical Optimization, Continuous Optimization		Mathematical and Computing Science
Professor	ITOH, Toshiya	Complexity Theory, Approximation Algorithms, Online Algorithms		Mathematical and Computing Science
Professor	KABASHIMA, Yoshiyuki	Statistical Mechanics, Information Theory		Mathematical and Computing Science
Professor	KANAMORI, Takafumi	Mathematical Statistics, Machine Learning		Mathematical and Computing Science
Associate Professor	KASHIMA, Ryo	Mathematical Logic, Non-Classical Logics		Mathematical and Computing Science
Professor	MASUHARA, Hidehiko	Programming Languages, Software Development Environment		Mathematical and Computing Science
Professor	MATSUOKA, Satoshi	High-Performance Computing, Grid Computing	GSIC	Mathematical and Computing Science
Professor	MINAMIDE, Yasuhiko	Software Verification, Programming Languages		Mathematical and Computing Science
Associate Professor	MIURA, Hideyuki	Theory of Partial Differential Equations		Mathematical and Computing Science
Professor	MIYOSHI, Naoto	Applied Probability, Stochastic Models		Mathematical and Computing Science
Associate Professor	MUROFUSHI, Toshiaki	Set Functions, Piecewise Linear Functions, Information Visualization, Formal Concept Analysis		Mathematical and Computing Science
Associate Professor	NAKANO, Yumiharu	Stochastic Differential Equations, Stochastic Control		Mathematical and Computing Science
Professor	NISHIBATA, Shinya	Theory of Partial Differential Equations		Mathematical and Computing Science
Associate Professor	SHUDO, Kazuyuki	Distributed Systems		Mathematical and Computing Science
Professor	TAKAYASU, Misako	Statistical Physics, Econophysics, Complex Networks	IIR	Mathematical and Computing Science, Artificial Intelligence
Professor	TANAKA, Keisuke	Cryprocurrency, Cybersecurity, Theory of Cryptography		Mathematical and Computing Science
Associate Professor	TERASHIMA, Yuji	Differential Topology, Mathematical Physics, Arithmetic Topology		Mathematical and Computing Science
Professor	UMEHARA, Masaaki	Differential Geometry		Mathematical and Computing Science
Associate Professor	WAKITA, Ken	Information Visualization, Social Network Visualization, Programming Languages		Mathematical and Computing Science
Professor	WATANABE, Osamu	Theory of Computing, Algorithms		Mathematical and Computing Science
Professor	WATANABE, Sumio	Statistical Learning Theory, Mathematical Physics		Mathematical and Computing Science
Associate Professor	YAMASHITA, Makoto	Mathematical Optimization, Continuous Optimization		Mathematical and Computing Science

## School of Life Science and Technology

### (12)Dept. of Life Science and Technology

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	FUJII, Masaaki	Physical Chemistry, Laser Spectroscopy, Cluster		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	FUKUI, Toshiaki	Genetic Engineering, Metabolic Engineering, Extremophiles		Life Science and Technology
Professor	HISABORI, Toru	Bioenergetics, Plant Biochemistry		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	HONGO, Yuichi	Molecular Microbial Ecology, Symbiosis		Life Science and Technology
Professor	ICHINOSE, Hiroshi	Neurochemistry, Molecular Biology, Neuroscience		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Professor	ISHII, Yoshitaka	Physical Chemistry, Structural Biology, Alzheimer's Disease		Life Science and Technology
Professor	ITOH, Takehiko	Bioinformatics		Life Science and Technology
Professor	IWASAKI, Hiroshi	Molecular Genetics and Molecular Biology		Life Science and Technology
Professor	KAJIWARA, Susumu	Molecular Biology, Microbial Infection, Biotechnology, Genome Editing		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	KIMURA, Hiroshi	Epigenetics and Cell Biology		Life Science and Technology
Professor	KINBARA, Kazushi	Bioinspired Synthetic Chemistry		Life Science and Technology
Professor	KITAO, Akio	Computational Biology, Biophysics, Computational Chemistry, Protein Dynamics		Life Science and Technology
Professor	KOBATAKE, Eiry	Protein Engineering, Cellular Engineering, Biosensing		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Professor	KOMADA, Masayuki	Medical Cell Biology and Biochemistry		Life Science and Technology
Professor	KONDOH, Shinae	In Vivo Imaging, Cancer Biology, Drug Development		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	KUME, Shoen	Stem Cell Biology, Regenerative Medicine		Life Science and Technology
Professor	MARUYAMA, Atsushi	Biomaterials, Bioconjugates, Biofunctional Polymers, Smart Materials		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Professor	MIHARA, Hisakazu	Bioorganic Chemistry and Peptide Chemistry		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Professor	MURAKAMI, Satoshi	Structural Biology, Protein Crystallography		Life Science and Technology
Professor	NAKAMURA, Hiroyuki	Organic Synthesis, Medicinal Chemistry, Chemical Biology		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	NISHIYAMA, Nobuhiro	Drug Delivery System, Biomaterials Science		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	OHTA, Hiroyuki	Plant Molecular Biology		Life Science and Technology
Professor	SAKURAI, Minoru	Biophysical Chemistry, Computational Chemistry		Life Science and Technology



Professor	TAGUCHI, Hideki	Biophysical Chemistry, Protein Folding		Life Science and Technology
Professor	TANAKA, Kan	Evolutional Cell Biology, Cell Cycle, Signal Transduction, Microbiology, Symbiosis, Organelle, Chloroplast, Mitochondria, Transcriptional Regulation, Plant Physiology, Photosynthesis		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	TANJI, Yasunori	Biochemical Engineering and Environmental Microbiology		Life Science and Technology
Professor	TOKUNAGA, Makio	Single Molecule Biology, Immune Cell Signaling, Molecular Systems Biology		Life Science and Technology
Professor	UEDA, Hiroshi	Bioprocess and Protein Engineering, Antibody Engineering, Analytical Chemistry, Biosensors		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	UENO, Takafumi	Bioinorganic Chemistry, Biophysical Chemistry, Biosupramolecular Chemistry		Life Science and Technology
Professor	URABE, Hirokazu	Organic Synthesis, Asymmetric Synthesis		Life Science and Technology
Professor	WACHI, Masaaki	Applied Microbiology		Life Science and Technology
Professor	YAMAGUCHI, Yuki	Control of Gene Expression, Epigenetics, RNA Processing, Drug Discovery		Life Science and Technology
Professor	YAMAMOTO, Naoyuki	Applied Microbiology, Probiotics and Biogenics		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	YUASA, Hideya	Bioorganic Chemistry		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Associate Professor	AIZAWA, Yasunori	Cellular Genomics		Life Science and Technology
Associate Professor	AKAMA, Hiroyuki	Brain Image Analysis(fMRI) and Machine Learning, Complex Networks, Computational Neurolinguistics		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	ASAKURA, Noriyuki	Bioinorganic Chemistry, Biological Electron Transfer		Life Science and Technology
Associate Professor	FUSE, Shinichiro	Synthetic Organic Chemistry, Medicinal Chemistry, Natural Product Synthesis, Micro-flow Synthesis		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Associate Professor	HATA, Takeshi	Organic Synthesis, Asymmetric Synthesis		Life Science and Technology
Associate Professor	HAYASHI, Nobuhiro	Molecular Biology and Proteomics		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Associate Professor	HIRASAWA, Takashi	Molecular Microbiology and Metabolic Engineering		Life Science and Technology
Associate Professor	HIROTA, Junji	Molecular Neuroscience		Life Science and Technology
Associate Professor	IMAMURA, Sousuke	Plant Molecular Biology, Gene Regulation, Genetic Engineering, Biofuel, Algal Biomass		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	ISHIUCHI, Shun-ichi	Laser spectroscopy, Mass spectrometry		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	KAJIKAWA, Masaki	Molecular Biology		Life Science and Technology
Associate Professor	KAMACHI, Toshiaki	Bioinorganic chemistry, Cellular imaging of oxygen		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Associate Professor	KATO, Akira	Epithelial Transport, Animal Physiology		• Life Science and Technology

Associate Professor	KAWAKAMI, Atsushi	Developmental Genetics, Regenerative Biology		Life Science and Technology
Associate Professor	KOTERA, Masaaki	Chemical Bioinformatics		Life Science and Technology
Associate Professor	MASUDA, Shinji	Plant Molecular Biology and Photobiology		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 • Human Centered Science and Biomedical Engineering
Associate Professor	MIYASHITA, Eizo	Systems Neuroscience		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	MORI, Toshiaki	Bioorganic Chemistry, Polymer Chemistry		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	NAKAMURA, Nobuhiro	Molecular Cell Biology		Life Science and Technology
Associate Professor	NAKATOGAWA, Hitoshi	Molecular Cell Biology and Biochemistry		Life Science and Technology
Associate Professor	NIKAIDO, Masato	Molecular Evolutionary Biology		Life Science and Technology
Associate Professor	OGURA, Shun-ichiro	Molecular Biology, Alternative Therapy for Tumor, Biometabolic Engineering, Biomarker		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	OHKUBO, Akihiro	Bioorganic Chemistry		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Associate Professor	OSADA, Toshiya	Neuroscience		Life Science and Technology
Associate Professor	SEIO, Kohji	Bioorganic Chemistry		• Life Science and Technology • Human Centered Science and Biomedical Engineering
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	SUZUKI, Takashi	Molecular Neurobiology		Life Science and Technology
Associate Professor	TACHIBANA, Kazunori	Cell and Developmental Biology		Life Science and Technology
Associate Professor	TAGAWA, Yoh-ichi	Developmental Engineering, Molecular Biology, Artificial Organ, Immunology		Life Science and Technology
Associate Professor	TANAKA, Mikiko	Developmental Biology		Life Science and Technology
Associate Professor	TSUTSUMI, Hiroshi	Chemical Biology		Life Science and Technology
Associate Professor	WAKABAYASHI, Ken-ichi	Cell Biology, Cell Motility, Biochemistry		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	YAMADA, Takuji	Genome Science and Bioinformatics		Life Science and Technology
Associate Professor	YANAGIDA, Yasuko	Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	YATSUNAMI, Rie	Metabolic Engineering, Protein Engineering and Genetic Engineering		• Life Science and Technology

## School of Environment and Society

### (13)Dept. of Architecture and Building Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	FUJII, Haruyuki	Design Science, Architectural Planning and Environmental Design Theories		* Engineering Sciences and Design * Architecture and Building Engineering
Professor	IKARASHI, Kikuo	Steel Structures		Architecture and Building Engineering
Professor	KONO, Susumu	Reinforced and prestressed concrete structures, Earthquake Engineering		* Architecture and Building Engineering * Urban Design and Built Environment
Professor	MORIKAWA, Hitoshi	Earthquake Engineering		* Urban Design and Built Environment * Civil Engineering
Professor	MOTOYUI, Shojiro	Structural Engineering		Urban Design and Built Environment
Professor	NAKAI, Norihiro	Urban Planning, Urban Policy, Urban Design		Urban Design and Built Environment
Professor	NAKAMURA, Yoshiki	Visual Environment		* Urban Design and Built Environment * Architecture and Building Engineering
Professor	OKUYAMA, Shin-ichi	Architectural Design		* Architecture and Building Engineering * Urban Design and Built Environment
Professor	OSARAGI, Toshihiro	Spatial Analysis and Planning, Disaster Mitigation Planning, Spatial Information Science		* Architecture and Building Engineering * Urban Design and Built Environment
Professor	SAITO, Ushio	Landscape Planning and Design		Urban Design and Built Environment
Professor	SAKANO, Tatsuro	Organizational Design, Planning Theory, Public Management		Urban Design and Built Environment
Professor	SAKATA, Hiroyasu	Concrete Structure, Timber Structure		* Architecture and Building Engineering * Urban Design and Built Environment
Professor	TAKEUCHI, Toru	Steel Structure, Structural design, Seismic Control		Architecture and Building Engineering
Professor	TAMURA, Tetsuro	Atmospheric Environmental Turbulence, Wind Engineering, Wind Disaster Mitigation		Urban Design and Built Environment
Professor	TSUKAMOTO, Yoshiharu	Architectural Design and Urban Research		Architecture and Building Engineering
Professor	YAMADA, Satoshi	Structural Engineering, Earthquake Engineering		* Architecture and Building Engineering * Urban Design and Built Environment
Professor	YAMANAKA, Hiroaki	Environmental and Engineering Geophysics, Strong Motion Seismology		Urban Design and Built Environment
Professor	YASUDA, Koichi	Architectural Design		* Architecture and Building Engineering * Engineering Sciences and Design
Professor	YOKOYAMA, Yutaka	Building Materials		Architecture and Building Engineering
Associate Professor	ASAWA, Takashi	Urban and Built Environmental Engineering		Urban Design and Built Environment
Associate Professor	DOHI, Masato	Community Planning and Design		Urban Design and Built Environment
Associate Professor	FUJITA, Yasuhito	History of Architecture and Cities		Urban Design and Built Environment
Associate Professor	FURUYA, Hiroshi	Aerospace Engineering, Multidisciplinary Structural Optimization		Urban Design and Built Environment

Associate Professor	HOTTA, Hisato	Composite Structures		Architecture and Building Engineering
Associate Professor	KAGI, Naoki	Environmental Engineering Air Quality		Architecture and Building Engineering
Associate Professor	KISHIKI, Shoichi	Base-Isolation and Passive Control Structure, Seismic Retrofit for Existing Buildings, Post-Earthquake Damage Evaluation and Rehabilitation		• Architecture and Building Engineering • Urban Design and Built Environment
Associate Professor	MANO, Yosuke	Urban Planning		Urban Design and Built Environment
Associate Professor	MATSUOKA, Masashi	Remote Sensing and Geoinformatics for Disaster Management		Urban Design and Built Environment
Associate Professor	MIKAMI, Takamasa	Performance Evaluation of Building Elements Safety Evaluation of Residential Environment		Architecture and Building Engineering
Associate Professor	MURATA, Ryo	Architectural Design		• Architecture and Building Engineering • Engineering Sciences and Design
Associate Professor	MUROMACHI, Yasunori	Transport and the Environment, Travel Behavior		• Urban Design and Built Environment • Civil Engineering
Associate Professor	NASU, Satoshi	Architectural Design and Theory Public Space and Community Design		Urban Design and Built Environment
Associate Professor	OHKAZE, Tubasa	Urban environmental engineering Snow engineering Disaster resilience for architectural and urban environment		Urban Design and Built Environment
Associate Professor	SAIO, Naoko	Architectural Planning Urban and Rural Planning		Architecture and Building Engineering
Associate Professor	SANADA, Junko	Rural landscape and development		• Urban Design and Built Environment
Associate Professor	SATO, Daiki	Structural Engineering, Earthquake Engineering and Wind Engineering		• Urban Design and Built Environment • Architecture and Building Engineering
Associate Professor	SHIOZAKI, Taisin	Architectural Design		Architecture and Building Engineering
Associate Professor	SOSHIRODA, Akira	Tourism Planning Development Process of Resorts		Urban Design and Built Environment
Associate Professor	TAMURA, Shuji	Geotechnical Earthquake Engineering		Architecture and Building Engineering
Associate Professor	YAMAZAKI, Taisuke	History of Architecture, Architectural Design		Architecture and Building Engineering
Associate Professor	YUASA, Kazuhiro	Environmental Engineering, Building Services		• Architecture and Building Engineering • Engineering Sciences and Design

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

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	ASAKURA, Yasuo	Transportation Planning & Engineering		• Civil Engineering • Urban Design and Built Environment
Professor	HANAOKA, Shinya	Transport Planning, Transport Logistics, Transport Project Management		Civil Engineering
Professor	HIROSE, Sohichi	Applied Mechanics, Nondestructive Evaluation		Civil Engineering
Professor	IWANAMI, Mitsuyasu	Infrastructure management, Marine structure engineering		Civil Engineering
Professor	KANAE, Shinjiro	Hydrology, Hydrologic cycle, Water resources		Civil Engineering
Professor	KANDA, Manabu	Regional Atmospheric Environment		Civil Engineering

Professor	KINOUCHI, Tsuyoshi	Watershed Hydrology, Environmental Hydrology		Civil Engineering
Professor	KITAZUME, Masaki	Soil Mechanics & Geotechnical Engineering		• Engineering Sciences and Design • Civil Engineering
Professor	MORIKAWA, Hitoshi	Earthquake Engineering		• Urban Design and Built Environment • Civil Engineering
Professor	☆NADAOKA, Kazuo	Coastal Ecosystem Conservation Studies, Integrated Coastal Zone Management, Coastal Oceanography and Engineering		Civil Engineering
Professor	NAKAI, Norihiro	Urban Planning, Urban Policy, Urban Design		Urban Design and Built Environment
Professor	NIWA, Junichiro	Mechanics of Structural Concrete Strengthening of Deteriorated Concrete Structures Properties of Fiber Reinforced Concrete		Civil Engineering
Professor	SAITO, Ushio	Landscape Planning and Design		Urban Design and Built Environment
Professor	SAKANO, Tatsuro	Organizational Design, Planning Theory, Public Management		Urban Design and Built Environment
Professor	TAKAHASHI, Akihiro	Geotechnical Engineering		Civil Engineering
Professor	YAI, Tetsuo	Transportation Planning		• Urban Design and Built Environment • Civil Engineering
Associate Professor	BUI, Quoc Tinh	Computational Mechanics, Fracture & Damage Mechanics		Civil Engineering
Associate Professor	CHIJIWA, Nobuhiro	Multi-Scale Dynamics of Structural Concrete, Performance Assessment of Deteriorated Structure		Civil Engineering
Associate Professor	DOHI, Masato	Community Planning and Design		Urban Design and Built Environment
Associate Professor	FUJII, Manabu	Water and Environmental Engineering, Aquatic Chemistry		Civil Engineering
Associate Professor	FUKUDA, Daisuke	Travel Behavior Analysis, Transportation Systems Analysis, Traffic Engineering, Transportation Economics		• Civil Engineering • Urban Design and Built Environment • Engineering Sciences and Design
Associate Professor	KASAMA, Kiyonobu	Geotechnical Engineering		Civil Engineering
Associate Professor	MANO, Yosuke	Urban Planning		Urban Design and Built Environment
Associate Professor	MUROMACHI, Yasunori	Transport and the Environment, Travel Behavior		• Urban Design and Built Environment • Civil Engineering
Associate Professor	NAKAMURA, Takashi (中村 恭志)	Computational Environmental Fluid Dynamics, Computational Scheme, Multi Physics Simulation		Civil Engineering
Associate Professor	NAKAMURA, Takashi (中村 隆志)	Coastal Ecosystem Modeling Biogeochemistry		Civil Engineering
Associate Professor	SANADA, Junko	Rural Landscape and Development		Urban Design and Built Environment
Associate Professor	SASAKI, Ei-ichi	Bridge Engineering & Structural Engineering		• Civil Engineering • Engineering Sciences and Design
Associate Professor	SOSHIRODA, Akira	Tourism Planning Development Process of Resorts		Urban Design and Built Environment
Associate Professor	TAKAGI, Hiroshi	Disaster Prevention Engineering, Coastal Engineering		Civil Engineering
Associate Professor	TAKEMURA, Jiro	Soil Mechanics & Geo-environmental Engineering		• Civil Engineering • Engineering Sciences and Design

Associate Professor	WIJEYEWICKREMA, Anil C.	Earthquake Engineering, Structural Engineering, Solid Mechanics		<ul style="list-style-type: none"> <li>• Civil Engineering</li> <li>• Engineering Sciences and Design</li> </ul>
Associate Professor	YOSHIMURA, Chihiro	Water Quality Engineering, Aquatic Ecology, Biogeochemistry		Civil Engineering

☆ indicates person who will retire in March, 2019.

### (15)Dept. of Transdisciplinary Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	CHIBA, Satoshi	Nuclear Reactions, Nuclear Decay, Nuclear Data, Radiation Transport, Innovative Nuclear Systems, Medical and Astrophysical Applications		Nuclear Engineering
Professor	CROSS, Jeffrey Scott	Biomass Engineering, Bioengineering, Materials Processing and Simulation, Online Educational Technology, Learning Analytics, Energy Policy		<ul style="list-style-type: none"> <li>• Energy Science and Engineering</li> <li>• Global Engineering for Development, Environment and Society</li> <li>• Materials Science and Engineering</li> </ul>
Professor	HANAOKA, Shinya	Transport Planning, Transport Logistics, Transport Project Management		Global Engineering for Development, Environment and Society
Professor	HINODE, Hirofumi	Inorganic Materials and Properties, Catalyst and Chemical, Process, Chemical Engineering in General		Global Engineering for Development, Environment and Society
Professor	IIO, Shunji	Plasma Physics, Fusion Engineering, Laser Diagnostics		Nuclear Engineering
Professor	KANDA, Manabu	Regional Atmospheric Environment		Global Engineering for Development, Environment and Society
Professor	KINOUCI, Tsuyoshi	Watershed Hydrology, Water Resources Engineering		Global Engineering for Development, Environment and Society
Professor	MURAYAMA, Takehiko	Environmental Policy & Planning, Risk Assessment & Management, Risk Communication, Environmental Impact Assessment, Policy Dialogue, Social Decision-Making		Global Engineering for Development, Environment and Society
Professor	☆NADAOKA, Kazuo	Coastal Ecosystem Conservation Studies, Integrated Coastal Zone Management, Coastal Oceanography and Engineering		Global Engineering for Development, Environment and Society
Professor	NAKASAKI, Kiyohiko	Environmental Bioengineering		Global Engineering for Development Environment and Society
Professor	NOHARA, Kayoko	Translation Studies, Linguistics, Science Communication		<ul style="list-style-type: none"> <li>• Global Engineering for Development Environment and Society</li> <li>• Engineering Sciences and Design</li> </ul>
Professor	OBARA, Toru	Reactor Physics, Nuclear Reactor Design, Passive Safe Reactor, Nuclear Safety		Nuclear Engineering
Professor	OHNUKI, Toshihiko	Nuclear Waste Disposal, Environmental Remediation, Environmental Actinides Chemistry, Biotransformation of Metal Ions, Mineral Alteration, Reactive Transport Modeling		Nuclear Engineering
Professor	SAIJO, Miki	Sociolinguistics, Communication Design, Scientific Literacy, Diffusion of Innovation		Engineering Sciences and Design
Professor	SAITO, Shigeki	Engineering Design, Smart Materials, Micromechanics, Micro Robotics		<ul style="list-style-type: none"> <li>• Engineering Sciences and Design</li> <li>• Global Engineering for Development, Environment and Society</li> </ul>
Professor	TAKADA, Jun-ichi	Wireless Communications, Electromagnetic Wave Theory and Application, ICT and Development		<ul style="list-style-type: none"> <li>• Global Engineering for Development, Environment and Society</li> <li>• Engineering Sciences and Design</li> </ul>
Professor	TAKAHASHI, Kunio	Mechanical Engineering, Mechanics, Material Science, Material Processing		Global Engineering for Development, Environment and Society
Professor	TAKESHITA, Kenji	Nuclear Chemical Engineering, Nuclear Fuel Cycle, Fuel Reprocessing, Isotope Separation, Waste Management, Metal Recycling		<ul style="list-style-type: none"> <li>• Nuclear Engineering</li> <li>• Global Engineering for Development, Environment and Society</li> </ul>
Professor	YAMAGUCHI, Shinobu	Education and IT, International Development and Cooperation, Sustainable Development of World Cultural Heritage		Global Engineering for Development, Environment and Society

Professor	☆YOSHIKAWA, Kunio	Thermal Recycling of Wastes, Energy Conversion, Thermal Engineering, Atmospheric Environmental Engineering		Global Engineering for Development, Environment and Society
Associate Professor	ABE, Naoya	Environmental Economics, Policy Studies for the Environment, International Cooperation		Global Engineering for Development, Environment and Society
Associate Professor	AKITA, Daisuke	Aerospace System, High-Speed Aerodynamics		Global Engineering for Development, Environment and Society
Associate Professor	EGASHIRA, Ryuichi	Separation Processes, Bioenergy Production, Biomass Treatment, Water Treatment, Metal Separation, Petroleum Refining, Solvent Extraction, Adsorption		Global Engineering for Development, Environment and Society
Associate Professor	HASEGAWA, Jun	Plasma Science and Technology, Ion Beam Application Studies, Inertial Fusion Studies, High Energy Density Science, Radiation Physics		Nuclear Engineering
Associate Professor	HAYASHIZAKI, Noriyosu	Accelerator Physics and Engineering, Medical Accelerator, Accelerator Driven Neutron Source, Security of Radioactive Sources		Nuclear Engineering
Associate Professor	HOPE, Tom	Sociology, Human Computer Interaction, Science Communication, Qualitative Research Methods		<ul style="list-style-type: none"> <li>▪ Global Engineering for Development, Environment and Society</li> <li>▪ Energy Science and Engineering</li> </ul>
Associate Professor	INABA, Kazuaki	Mechanical Engineering, Solid and Structure Engineering, Engineering Design		<ul style="list-style-type: none"> <li>▪ Engineering Sciences and Design</li> <li>▪ Mechanical Engineering</li> </ul>
Associate Professor	KATABUCHI, Tatsuya	Neutron Science, Nuclear Physics, Nuclear Transmutation, Neutron Capture Therapy, Radiation Measurement		Nuclear Engineering
Associate Professor	MATSUMOTO, Yoshihisa	Radiation Biology, Molecular Biology and Biochemistry, Basic Medicine		Nuclear Engineering
Associate Professor	NAKAMURA, Takashi (中村 恭志)	Computational Environmental Fluid Dynamics, Computational Scheme, Multi Physics Simulation		Global Engineering for Development, Environment and Society
Associate Professor	NAKAMURA, Takashi (中村 隆志)	Coastal Ecosystem Modeling Biogeochemistry		Global Engineering for Development, Environment and Society
Associate Professor	NISHIKIZAWA, Shigeo	Environmental Policy and Planning, Public Participation, Environmental Impact Assessment		Global Engineering for Development, Environment and Society
Associate Professor	SAGARA, Hiroshi	Nuclear Safety, Security and Non-proliferation (3S), Reactor Design for High-level-waste Transmutation Non-destructive Assay Technology		Nuclear Engineering
Associate Professor	SATO, Yuriko	International Education Policy, Development Economics, Policy Evaluation, Immigration Policy		Global Engineering for Development, Environment and Society
Associate Professor	TAKAGI, Hiroshi	Disaster Prevention Engineering, Coastal Engineering		Global Engineering for Development, Environment and Society
Associate Professor	TAKAHASHI, Fumitake	Waste management, Waste recycle, Environmental risk assessment, Human behavior and psychological analysis on waste management		Global Engineering for Development, Environment and Society
Associate Professor	TOKIMATSU, Koji	Energy Technology, Resource Supply and Demand, Environmental and Resource Economics, Sustainable Development		<ul style="list-style-type: none"> <li>▪ Global Engineering for Development, Environment and Society</li> <li>▪ Energy Science and Engineering</li> </ul>
Associate Professor	TSUTSUI, Hiroaki	Plasma Physics and Nuclear Fusion, Superconducting Magnetic Energy Storage System		Nuclear Engineering
Associate Professor	YAMASHITA, Yukihiro	Computer Science, Intelligent Informatics		Global Engineering for Development, Environment and Society

☆ indicates person who will retire in March, 2019.

# Admissions Policy of Department - Graduate -

## [School of Science]

### Department of Mathematics

#### <Master>

- Those who are inquisitive about the roots of mathematics
- Those who are able to acquire the fundamental concepts and ways of thinking in mathematics, as well as the ability to apply them
- Those who can contemplate logically and concentrate on tackling problems
- Those with the basic language skills necessary for the Mathematics Major

#### <Doctor>

- Those with the academic abilities, practical problem solving skills and creativity necessary for pursuing mathematics research
- Those who have the language skills required for a successful global career

### Department of Physics

#### <Master>

- Those who are inquisitive about the underlying principles of physics
- Those who are able to acquire the fundamental concepts and ways of thinking in physics, as well as the ability to apply them
- Those who can contemplate logically and concentrate on tackling problems
- Those with the basic language skills necessary for specialized education
- Those who are motivated to investigate the natural sciences and contribute to the development of science and technology

#### <Doctor>

- Those with the academic abilities, practical problem-solving skills, and creativity necessary for pursuing physics research
- Those who have the language and discussion skills necessary for pursuing international research activities

### Department of Chemistry

#### <Master>

- Those with a curiosity and inquisitiveness about the various phenomena related to the material world
- Those who have already acquired fundamental concepts and ways of thinking in chemistry
- Those who can contemplate logically and concentrate on tackling problems
- Those who have the desire to explore various phenomena on an atomic and molecular level and contribute to the development of science and technology
- Those who have basic language abilities required for specialized education

#### <Doctor>

- Those with a curiosity and inquisitiveness about the various phenomena related to the material world
- Those who have already acquired fundamental concepts and ways of thinking in chemistry, as well as the ability to apply them
- Those who can contemplate logically and concentrate on tackling problems
- Those who have the desire to work independently on new challenges in chemistry, and contribute to the advancement of science and technology, and society
- Those who have the language skills necessary for participating in an international arena



## **Department of Earth and Planetary Sciences**

### **<Master>**

- Those with a scientific curiosity about the various phenomena related to the Earth, planets, and space
- Those who already have basic academic abilities in mathematics, physics, chemistry, earth sciences, etc.
- Those who can think scientifically, based on logic and quantitative evaluation
- Those who have basic language abilities required for specialized education

### **<Doctor>**

- Those with a scientific curiosity about the various phenomena related to the Earth, planets, and space
- Those who already have basic academic abilities in mathematics, physics, chemistry, earth sciences, etc.
- Those who can individually conduct novel research that is based on scientific thinking using logic and quantitative evaluation
- Those who have basic language abilities necessary to play an active role in the international arena

## **[School of Engineering]**

## **Department of Mechanical Engineering**

### **<Master>**

- Those who are motivated to contribute to society through their expertise in mechanical engineering
- Those who have fundamental knowledge of engineering with a focus on mechanical engineering and based on this can think and express ideas logically
- Those who have rich and extensive knowledge and can flexibly grasp ideas from various viewpoints
- Those who have the language and writing skills necessary for conducting engineering research and technology development in a global arena
- Those who have an interest in the unexplored areas of research of mechanical engineering and the drive to tackle this research

### **<Doctor>**

- Those who have high-level advanced knowledge of mechanical engineering as well as an understanding of the many complex engineering issues necessary to identify the various aspects of problems, and use this knowledge to find practical solutions to problems
- Those who can incorporate new ideas and findings to their specialized knowledge of mechanical engineering and put this to use
- Those who have the fundamental communication skills necessary to be globally successful
- Those who have a strong desire to take the lead to push back the frontiers of mechanical engineering
- Those who have the drive to exhibit leadership in the development of a global community while maintaining high ethical values

## **Department of Systems and Control Engineering**

### **<Master>**

- Those who are motivated to contribute to society by utilizing their expertise related to systems and control engineering
- Those who have basic academic ability related to engineering, particularly systems and control engineering, and who can think and express themselves logically based on this
- Those who have diverse and extensive knowledge, and who can flexibly understand ideas from various viewpoints
- Those who have the language and writing skills necessary for conducting engineering research and engineering development with an international perspective
- Those who have a curiosity for unknown research areas related to systems and control engineering, and who have the courage and energy to take on this research

#### <Doctor>

- Those with the high level of expertise in engineering necessary for a multifaceted understanding of problems, and who have practical problem-solving ability based on this, as well as a high level of expertise in systems and control engineering
- Those who can incorporate new ideas and findings into their specialized knowledge of systems and control engineering and put this to use
- Those who have the communication skills necessary to be globally successful
- Those who have the drive to lead and pioneer the frontier of systems and control engineering
- Those with high ethical values and motivation to lead the development of the global community

### **Department of Electrical and Electronic Engineering**

#### <Master>

- Those with the drive to contribute to society using their expertise in the field of electrical and electronic engineering
- Those who have fundamental knowledge of engineering with a focus on electrical and electronic engineering, and can reason and express their thinking in a logical manner
- Those with rich and extensive knowledge and can flexibly grasp ideas from various viewpoints
- Those with the language and writing skills necessary for conducting engineering research and technology development in a global arena
- Those with an interest in the unexplored areas of research of electrical and electronic engineering and the drive to tackle this research

#### <Doctor>

- Those who have high-level advanced knowledge of electrical and electronic engineering as well as an understanding of the many complex engineering issues necessary to identify the various aspects of problems, and use this knowledge to find practical solutions to problems
- Those who can incorporate new ideas and findings to their specialized knowledge of electrical and electronic engineering and put this to use
- Those with the fundamental communication skills necessary to be globally successful
- Those with a strong desire to take the lead to push back the frontiers of electrical and electronic engineering
- Those with the drive to exhibit leadership in the development of a global community while maintaining high ethical values

### **Department of Information and Communications Engineering**

#### <Master>

- Those with the drive to contribute to society using their expertise in information and communications engineering
- Those who have fundamental knowledge of engineering with a focus on information and communications engineering, and can reason and express themselves in a logical manner
- Those with rich and extensive knowledge and who can flexibly grasp ideas from various viewpoints
- Those with the language and writing skills necessary for conducting engineering research and technology development in global arenas
- Those with an interest in unexplored areas of information and communications engineering and the drive to undertake this research

#### <Doctor>

- Those with a high level of expertise in information and communications engineering, broad knowledge of engineering required for a multifaceted understanding of problems, and practical problem-solving skills
- Those who can incorporate new ideas and findings to their specialized knowledge of information and communications engineering and put them to use
- Those with the fundamental communication skills necessary to be globally successful
- Those with the ambition to lead at the frontier of information and communications engineering
- Those with the drive to exercise leadership in the development of international society while maintaining high ethical standards

## **Department of Industrial Engineering and Economics**

### **<Master>**

- Those with the aspiration to contribute to society using expertise in industrial engineering and economics
- Those who have fundamental knowledge of both (1) engineering with a focus on industrial engineering and economics, and (2) the humanities and social sciences and based on these can reason logically and communicate with others
- Those who have broad and rich knowledge and can view matters from all angles
- Those with the language and writing skills necessary for conducting engineering research and technology development from an international perspective
- Those with an interest in unknown research areas of industrial engineering and economics and the courage and energy to tackle this research

### **<Doctor>**

- Those with (1) a high level of expertise in industrial engineering and economics, (2) broad knowledge of engineering required for a multifaceted understanding of problems, and (3) practical problem-solving skills
- Those who can integrate and creatively utilize new additions to the industrial engineering and economics knowledge base
- Those with the communications skills required at the international level
- Those with the drive to lead at the frontier of industrial engineering and economics
- Those with high ethical values and motivation to lead the development of the global community

## **[School of Materials and Chemical Technology]**

## **Department of Materials Science and Engineering**

### **<Master>**

- Those who have the desire and determination to tackle new research areas in the field of materials science and materials engineering
- Those who have aspirations to contribute to the development of society through their knowledge of materials science and materials engineering

### **<Doctor>**

- Those who have the desire to contribute widely through society using their advanced specialized knowledge of materials science and materials engineering as well as their problem solving skills
- Those who have the aspiration and drive to deepen their learning of materials science and materials engineering, open new frontiers, and systematize this new knowledge

## **Department of Chemical Science and Engineering**

### **<Master>**

- Those who have the determination to tackle new research areas in chemical science and engineering
- Those who are motivated to contribute to the development of society by utilizing their knowledge of chemical science and engineering

### **<Doctor>**

- Those who are eager to contribute to society in many ways through their expertise and problem-solving skills related to chemical science and engineering
- Those who have the strong desire and practical ability for setting new trends by deepening their study of chemical science and engineering, pioneering unexplored research areas, and systematizing this knowledge.

## [School of Computing]

### **Department of Mathematical and Computing Science**

#### <Master>

- Those who have an interest in the mathematical scientific structures behind logical and mathematic theoretical systems and phenomena
- Those who have basic knowledge of undergraduate math, its application fields, computer systems and programming

#### <Doctor>

- Those who have a strong desire to explore the research subjects of computing, and who can independently grapple with problem solving
- Those who try to understand the mathematical structures hidden in various phenomena by modeling them
- Those who have the sufficient academic ability required for the theoretical and mathematical problem solving in computing

### **Department of Computer Science**

#### <Master>

- Those who have an interest in broad areas of science and engineering, can study actively on their own, and can persistently and flexibly tackle new problems
- Those with the awareness to adequately model intelligent behavior and connect this to real problem solving
- Those with strong aspirations to contribute to the development of society through the creation of higher performance and easier to use computer systems

#### <Doctor>

- Those who take on the challenge to solve new research problems concerning computer systems with a broad perspective and logical reasoning skills
- Those who can devise and implement new models without being constrained by conventional knowledge to solve various problems

## [School of Life Science and Technology]

### **Department of Life Science and Technology**

#### <Master>

- Those who have basic academic ability in science and engineering and basic expertise in life science and technology, and who can reason and express themselves logically based on these attributes
- Those who have the language skills necessary for advancing research and technology development in life science and technology from an international perspective
- Those who possess strong interest in life science and technology research and ethical values

#### <Doctor>

- Those who possess basic expertise in a wide variety of science and technology fields and advanced expertise in life science and technology necessary for pursuing related research
- Those who possess the advanced problem-defining and problem-solving skills necessary for pursuing life science and technology research
- Those who possess basic cultural and communication skills that are globally effective
- Those who revere life and have strong ethical values

## [School of Environment and Society]

### **Department of Architecture and Building Engineering**

#### <Master>

- Those with academic ability in the fundamentals of architecture, cities, and environments, as well as in specialized areas
- Those able to grasp concepts from various perspectives, think logically, innovate, and express themselves
- Those with a strong desire to do research and explore the unknown
- Those with aspirations to understand the world of architecture and contribute to the development of society
- Those with the language skills required to engage in international research and innovation

#### <Doctor>

- Those with academic ability in the fundamentals of architecture as well as in specialized areas
- Those able to grasp concepts from various perspectives, think logically, innovate, and express themselves
- Those with a strong desire to do research and explore the unknown
- Those with aspirations to understand the world of architecture and contribute to the development of society
- Those with the language skills required to engage in international research and innovation

### **Department of Civil and Environmental Engineering**

#### <Master>

- Those who possess basic academic ability in science and engineering, and are able to think logically from multiple perspectives
- Those who possess broad knowledge related to civil engineering, social infrastructure, cities, and the environment, and the drive to actively learn and conduct research
- Those who possess the language skills necessary for advancing research and development from an international perspective
- Those who wish to contribute to the formation of a safe society in harmony with the environment by using knowledge from civil and environmental engineering

#### <Doctor>

- Those who possess basic academic ability in science and engineering, and are able to think creatively and logically from multiple perspectives
- Those with broad knowledge related to civil engineering, social infrastructure, cities, and the environment, and the drive to learn and conduct research independently
- Those who possess the language skills necessary for internationally valued research and development
- Those who wish to contribute to the development of technology in international society as an advanced engineer and researcher in the civil and environmental engineering field

### **Department of Transdisciplinary Science and Engineering**

#### <Master>

- Those with interest in problems faced by global society and local communities and the desire to acquire related advanced knowledge in order to solve them
- Those with the ambition to master their own field of expertise and the flexibility to learn broadly about related fields
- Those with sufficient basic academic ability to learn advanced transdisciplinary science and engineering
- Those with basic skills in global communication, management, and collaboration

#### <Doctor>

- Those with basic academic ability in science and engineering, knowledge of humanities and social sciences, and the ability to use them in practical problem solving
- Those who can add new findings to acquired specialized knowledge and make use of them freely
- Those with sufficient basic skills in global communication and collaboration
- Those with aspirations to pioneer intellectual frontiers and contribute to the sustainable development of humanity and society with globally viable leadership and specialist of science and technology

## **Department of Social and Human Sciences**

### **<Master>**

- Those eager to acquire a broad knowledge of the humanities, social sciences, and science and engineering, and to acquire advanced expertise in fields related to people, society, and science and technology
- Those who have a desire to master communication skills to connect society and science and technology, and those who understand diversity, humanities, and the importance of being able to connect society with science and technology
- Those keen to acquire value-creation skills that enable them to form advanced evaluation criteria independently and demonstrate their vision
- Those who have the hunger to acquire problem-solving skills that enable them to creatively design the necessary structures and push forward with the implementation of those structures
- Those who have the ambition to be successful in a global society as a leader with value-creation, problem-solving skills and international perspective

### **<Doctor>**

- Those who have a broad knowledge of the humanities, social sciences, and science and engineering, and advanced expertise in fields related to people, society, and science and technology
- Those who have the communication skills necessary for connecting people, society, and science and technology, and those who understand diversity, humanities, and the importance of being able to connect society with science and technology
- Those with value-creation skills that enable them to form advanced evaluation criteria independently and demonstrate their vision
- Those with problem-solving skills enabling them to creatively design the necessary structures and push forward with the implementation of those structures
- Those with the ambition to be successful in a global society as a leader with value-creation, problem-solving skills and international perspective, capable of pioneering and leading the frontier where science and technology merges with humanities and social sciences
- Those with the eagerness to acquire the ability for specialized academic research in close collaboration with related studies, and the willingness to put one's value-creation and problem-solving skills in to practice

## **Department of Innovation Science**

### **<Doctor>**

- Those who have specialized knowledge of specific fields, and capable of establishing logic built on facts on their own
- Those who have rich and extensive knowledge and can understand matters from various viewpoints
- Those who have experience of overcoming difficulties on their own to create new values
- Those who have the necessary communication skills to be globally successful
- Those overflowing with ambition and motivated to lead organizations and society

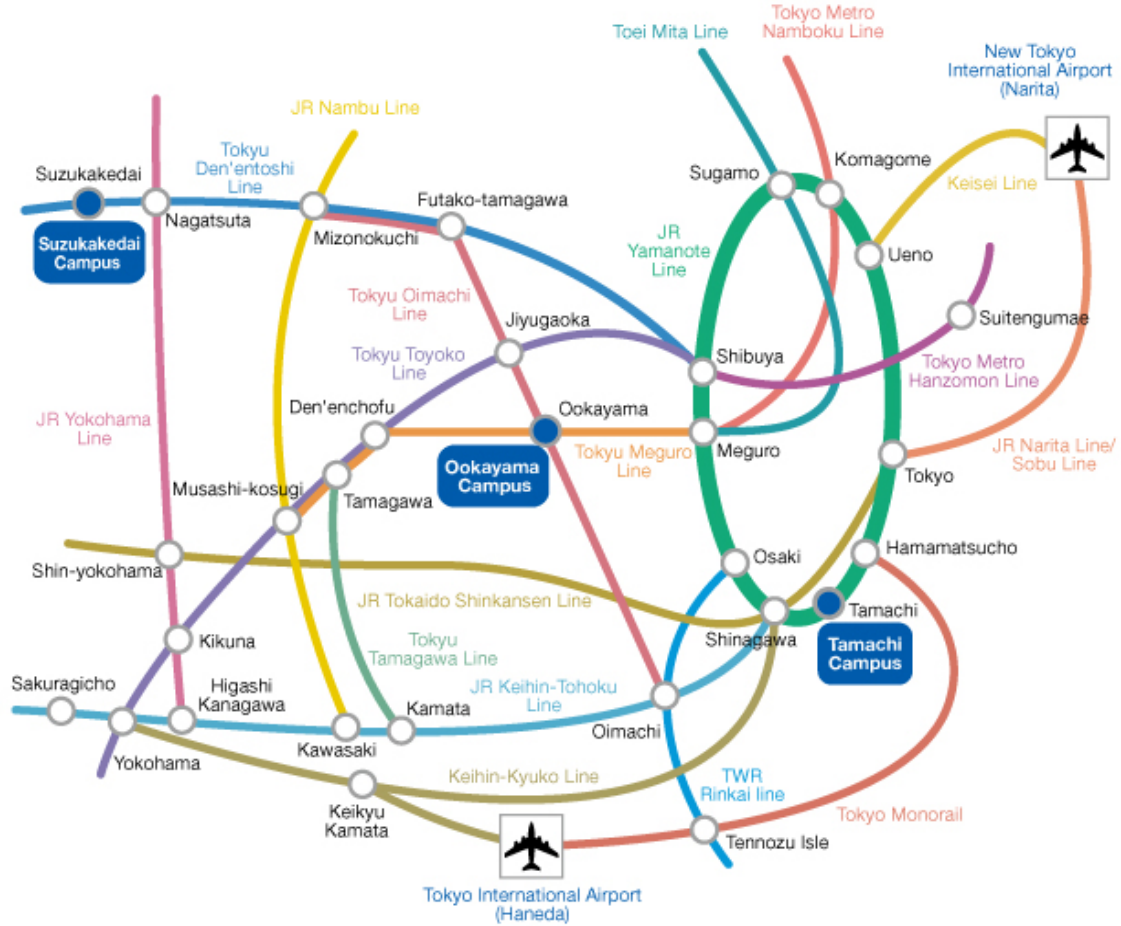
## **Department of Technology and Innovation Management**

### **<Professional Master>**

- Those who can use knowledge acquired through learning and experience, consider the existing conditions, and based on this, think and express thoughts in a logical and objective manner
- Those who have rich and extensive knowledge and can understand matters from various viewpoints
- Those who have the necessary communication skills to be globally successful
- Those overflowing with ambition and motivated to lead society

# MAP

- The **Ookayama campus** is a one-minute walk from Ookayama Station
- The **Suzukakedai campus** (former Nagatsuta campus) is a 5-minute walk from Suzukakedai Station
- The **Tamachi Campus** is a 2-minute walk from Tamachi Station



## May 2018 Tokyo Institute of Technology

### ○Inquiries Office

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Latest information for applicants [http://www.titech.ac.jp/english/graduate\\_school/](http://www.titech.ac.jp/english/graduate_school/)