Tokyo Institute of Technology International Graduate Program (C) Commencing in October 2015 Domestic Application



Admission Date: October 1, 2015

Number of Admitted Students: Several Students in each Department

Type of Programs: Master's Program, Doctoral Program

Application Period: June 29, 2015 - July 1, 2015

1. General Prospectus

Tokyo Institute of Technology (Hereafter referred to as "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 October 2015.

1) Master's Program

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

2) Doctoral Program

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

List of Departments & Programs

Graduate School	Department	Master's Program	Doctoral Program
	Mathematics		0
	Physics (Particle-, Nuclear-, and Astro-Physics)	0	0
	Physics (Condensed Matter Physics)	0	0
	Chemistry		0
	Earth and Planetary Sciences		0
	Chemistry and Materials Science		0
	Metallurgy and Ceramics Science	0	0
	Organic and Polymeric Materials	0	0
Graduate School of	Chemical Engineering	0	0
Science and Engineering	Mechanical Sciences and Engineering	0	0
	Mechanical and Control Engineering	0	0
	Mechanical and Aerospace Engineering	0	0
	Electrical and Electronic Engineering	0	0
	Physical Electronics	0	0
	Communications and Computer Engineering		0
	Civil Engineering	0	0
	Architecture and Building Engineering	0	
	International Development Engineering	0	0
	Nuclear Engineering	0	0
	Life Science	\bigcirc	0
Graduate School of Bioscience	Biological Sciences	0	0
and Biotechnology	Biological Information	0	0
	Bioengineering	0	0
	Biomolecular Engineering	\bigcirc	\bigcirc
	Innovative and Engineered Materials	0	0
	Electronic Chemistry	\bigcirc	0
	Materials Science and Engineering	\bigcirc	0
	Environmental Science and Technology	0	0
Interdisciplinary Graduate	Built Environment	\bigcirc	0
School of Science and	Energy Sciences	0	0
Engineering	Environmental Chemistry and Engineering	0	0
	Electronics and Applied Physics	0	0
	Mechano-Micro Engineering		0
	Computational Intelligence and Systems Science	0	0
	Information Processing	\bigcirc	0
	Mathematical and Computing Sciences		0
Graduate School of	Mechanical and Environmental Informatics	0	\cap
Information Science and	(Mechano-Informatics Group)		
Engineering	Mechanical and Environmental Informatics	\bigcirc	\bigcirc
	(Environmental Informatics Group)	0	U
Graduate School of Decision	Value and Decision Science	0	0
Science and Technology	Social Engineering	0	0

The mark "O" 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 who satisfy one of the following conditions are eligible to apply.

Japanese citizens who are residing in Japan, satisfy the following conditions and have obtained a degree at universities outside Japan may also apply for this program.

1) Master's Program

- (1) Persons who are graduates of a university or college or who will graduate from a university or college on or before September 30, 2015.
- (2) Persons who were awarded a bachelor's degree according to Article 104, Paragraph 4 of the School Education Law of Japan (Law 26, 1947) or who are expected to do so on or before September 30, 2015.
- (3) Persons who have successfully completed in 16-years education abroad or who are expected to do so on or before September 30, 2015.
- (4) Persons who have taken the correspondence course of an overseas educational institution in Japan and completed in total 16-years education or who are expected to do so on or before September 30, 2015.
- (5) Persons who have successfully completed an undergraduate course of study or who are expected to do so on or before September 30, 2015, at an educational institution abroad, for a total of 16 years of formal education including 4 years that are assessed in Japan to have been at the university level, and specifically designated by the Minister of Education, Culture, Sports, Science and Technology of Japan(Hereafter referred to as the "Ministry").
- (6) Persons who have successfully completed, or who are expected to complete, after the date designated by the Ministry, specialized courses specifically designated by the Minister at a vocational school. The minimum period required for graduation from a vocational school is four years or longer. Other conditions specified by the Minister should have been met.
- (7) Persons deemed eligible by the Minister.
- (8) Persons who have spent three years or more at a university, or who have successfully completed a 15-year education abroad, or who have completed an undergraduate course of study in an educational institution abroad, for a total of 15years of formal education, the last 3 years which is assessed in Japan to have been at the university level, and specifically designated by the Minister, and who are recognized by Tokyo Tech as having obtained the designated credits with excellent results.
- (9) Persons who are recognized by Tokyo Tech Graduate School as having equal or higher academic ability than persons who are graduates of a university or college and will be 22 years of age on or before September 30, 2015.
- (10) Persons from a foreign country in which the completion of college level education does not require 16 years of formal education, who satisfy the following two conditions, and who are recognized by Tokyo Tech Graduate School as having academic ability equal to or higher than graduates of a Japanese university.
 - a. Persons who have spent one year or more as a research student or research fellow at a university or research institution in Japan or abroad after successfully obtaining a bachelor's degree or who are expected to do so by the end of September 30, 2015.
 - b. Persons who will be 22 years of age on or before September 30, 2015.

2) Doctoral Program

- (1) Persons who hold a master's or professional degree, or who can be expected to have such a degree by September 30, 2015.
- (2) Persons who have received an academic degree equivalent to a master's or professional degree in a country other than Japan, or who can be expected to receive such a degree by September 30, 2015.
- (3) Persons who have completed a course of study in Japan under a program of education by correspondence offered by a school in a country other than Japan and who have received an academic degree equivalent to a master's or professional degree or who can be expected to receive such a degree by September 30, 2015.
- (4) Persons who have received an academic degree equivalent to a master's or professional degree upon completion in Japan of a course of study that is separately designated for that purpose by the Minister and that is conducted at an educational institution possessing a school for graduate study belonging to the educational system of a country other than Japan, or who can be expected to receive such a degree by September 30, 2015.
- (5) Persons who have completed postgraduate programs and received a degree equivalent to a master's degree from United Nations University or those who can be expected to have such a degree by September 30, 2015.
- (6) Persons designated by the Minister:
 - (a) Persons who have graduated from a university, and have engaged in research for two or more years at a university, research institute, or other such institution, and who have been recognized by the Tokyo Tech Graduate School as possessing academic achievements on an equal or higher level than holders of a master's or professional degree for equivalent research or other such results achieved.
 - (b) Persons who have completed 16 years of formal education in a country other than Japan, or who have completed a course of study in Japan under a program of education by correspondence offered by a school abroad and have thereby completed the equivalent of 16 years of education in that country, who have subsequently engaged in research for two or more years at a university, research institute, or other such institution, and who have been recognized by the Tokyo Tech Graduate School as possessing academic achievements on an equal or higher level than holders of a master's or professional degree for equivalent research or other such results achieved.
- (7) Persons who have been recognized by the Tokyo Tech Graduate School in respect of their eligibility for admission as possessing academic achievements on an equal or higher level than holders of a master's or professional degree, and who will reach the age of 24 by September 30, 2015.

Individual Assessment of Admission Eligibility is required <u>for applicants who fall under</u> <u>eligibility conditions (8), (9) or (10) for the master's program, or eligibility condition (6) or (7) for</u> <u>the doctoral program</u>. Applicants are requested to submit the Application for Individual Assessment of Admission Eligibility with any other necessary documents to the Admission Division by 17:00 on May 27, 2015. If sent by post, documents should reach the Admission Division by May 27, 2015.

Notification of Individual Assessment results will be posted around June 4, 2015. 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 Admission Division before applying.
- 2) The admission of applicants expecting to graduate from a university or college will be revoked should the applicant fail to successfully graduate or obtain a master's or professional degree by September 30, 2015.

4. Application Procedures

Prior to submitting the application materials to the Admission Division, applicants must arrange for a Tokyo Tech faculty member to serve as an academic advisor. In order to be considered for admissions, applicants must first find an academic advisor. Applicants are required to communicate directly with their intended academic advisor at Tokyo Tech and obtain the consent of the desired faculty member to serve in this capacity.

Applicants need to directly contact, via email, the intended academic advisor from the attached List of Faculties and provide a self-introductory statement and an account of their intentions period of study at Tokyo Tech. Applications will not be considered without the consent of a Tokyo Tech faculty member who would act as academic advisor.

For further information on faculty members, such as email addresses and contact information, please refer to the "STAR Search" (database of researchers) on the Tokyo Tech homepage. Some academic advisors may require the submission of additional documents before the stated deadline.

No.	Required Documents
1	Application Form (attached form) (original, no photocopies)
2	Photograph Card, Admission Card (attached form)
	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]furikaeharaikomiuketsushomeisho[okyakusamayo]") onto the designated section of your application form.
3	If you are a Japanese government (Monbukagakusho) scholarship student, you are not required to pay this fee. In that case, please submit documents to verify your scholarship status. 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.
	Following cases may be applicable: i) when a house which those responsible for the applicants' financial support reside is completely collapsed, largely collapsed, half collapsed or washed away, or ii) when those responsible for the applicants' financial support are deceased or disappeared. For further information contact the Admission Division before applying.
4	Official Academic Transcripts from both undergraduate and graduate schools (original or certified copies)
5	<u>Certificate of Graduation or Expected Graduation from both undergraduate and</u> <u>graduate schools</u> (original or certified copies) If the applicant is graduating early or has skipped a grade, please submit an official document or letter issued by the school indicating this fact.
6	<u>Certificate of Residence (juminhyo)</u> or documentation to confirm status of residence and authorized period of stay, such as photocopy of front and back of Resident Card (zairyu card). *However, photocopies of Certificate of Residence are not accepted. For Non-Japanese citizens only.

Application Requirements

No.	Required Documents
7	<u>Envelope for mailing Admission Card for Examination</u> (attached form) (Applicant's address, name and postal code should be filled in and 372 yen in stamps affixed)
*8	Summary of Thesis (about 300 words)
*9	Photocopy of Master's thesis

*For Documents No.*8 & *9: Applies only to doctoral program applicants

Other Application Requirements for Certain Categories of Applicants

No.	r Application Requirements for Certain Categories of Applicants Required Documents
1	English Proficiency Test Score Report Applicants are required to submit English proficiency test score reports from TOEFL-iBT, TOEFL-PBT, TOEIC or IELTS Academic Module taken on and after June 25, 2013. 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) or other proficiency tests not specifically listed above will not be accepted.
	The above applies only to applicants to departments that do not offer a Departmental Examination of English, but which instead request the submission of the English Proficiency Test Score Report. It also applies to applicants to departments that permit exemption from departmental examinations provided that students submit the English Proficiency Test Score Report. (See "English Proficiency Examinations" on pages 10 & 11)
2	Application for Individual Assessment of Admission Eligibility (attached form) with the following Supplemental Documents 1.1) Eligibility (8) for the Master's Program Letter of recommendation from the Dean of home institution (attached form) Official academic transcripts Certificate of student status Regulations concerning the graduation requirements of the relevant university Photocopy of Application Form 1.2) Eligibility (9) or (10) for the Master's Program Certificate of enrollment after graduation from university Official academic transcripts Certificate of Graduation Photocopy of Application Form 2) Eligibility (6) or (7) for the Doctoral Program Certificate of Graduation Photocopy of Application Form 2) Eligibility (6) or (7) for the Doctoral Program Certificate of Graduation Research Achievements (attached form) Outline of Research Photocopy of Application Form Applies only to ap

Submission of Application Documents

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

Application Period: June 29, 2015 - July 1, 2015

Submission in person at the Counter of the Admission Division

Application documents must be submitted during the hours of 10:00 - 12:00 and 13:00 - 15:00 on weekdays at the Admission 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 1, 2015.

Mailing Address:	Admission 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大学院入試グループ

Note:

- 1) An Admission Card for Examination will be sent by post around August 7, 2015. If you don't receive this card by August 13, 2015, please contact the Admission Division (phone number 03-5734-3990, between 9:00 12:15 and 13:15 17:15 on weekdays).
- 2) Tokyo Tech will not accept 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. Please keep a copy of all documents for your own reference.
- 6) Offers of admission may be withdrawn at any time, even after enrollment, if the application documents are found to be invalid or containing any false information.

5. Admission Decision

Examination period: August 17, 2015 - August 22, 2015

Applicants will be informed of the date, time and place of the examination when the Admission Card for Examination is sent, around August 7, 2015.

Examination Subjects

1) 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.

2) 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 advisor prior to submission of the application form to verify that they are waived from this application requirement. Whether or not an applicant needs to provide English proficiency test score reports will be determined by the academic advisor's department. (and not automatically waived).

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

Announcement of Successful Applicants

Notices will be posted on the bulletin board around "Nagominohiroba" on the Ookayama Campus at noon on September 14, 2015, and successful applicants will also be informed by mail. A pdf version of the list of successful applicants will be also made available on the university website around 13:00 on September 14, 2015.

6. Admissions Procedures

Admissions Procedures will take place at this university (either on the Ookayama Campus or on the Suzukakedai Campus) either on September 28, 2015 or September 29, 2015. Details will be provided when documents are issued to the academic advisors 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 (yearly)	¥535,800 (JPY)
(The admission and tuit	tion fees are subject to change.)

Teaching or Research Assistantship for Doctoral Program

In an effort to ease the financial burden incurred by doctoral students, Tokyo Tech has established a Teaching and Research Assistantship (TRA) which covers the tuition fees. Doctoral students who have enrolled and paid the aforementioned fees may be eligible to apply for financial aid through a Teaching and Research Assistantship that provide a sum equivalent to their tuition fees.

7. Note

- 1) Applicants are required to bring the Admission Card for Examination when taking the Examinations.
- 2) Information in the application document is used only for the entrance examination and business related to the entrance exam.
- 3) Once the application fee has been paid, it will not be returned for any reason after the application has been received.
- 4) Information on finding accommodation for applicants is not available from the Admissions Division. (The Co-op at Tokyo Tech may be of service. Please inquire for details on the website of The Co-op at Tokyo Tech http://www.univcoop/titech/ or on phone 03-3728-8023.)
- 5) Applicants should be aware that the latest information regarding application selection and related matters is made available on the university website.
- 6) This does not apply to applicants who are scheduled to advance to the doctoral program while presently enrolled in a master's program at this university (candidates for in-house advancement).

English Proficiency Examinations

Applicants can find their intended department from List 1 or 2, and consult with their intended academic advisor for details.

1) Departments offering English proficiency examinations

The following departments offer an examination of English proficiency. However some departments permit exemption from the departmental examination provided that applicants submit a score report for the TOEFL-iBT, TOEFL-PBT, TOEIC or IELTS Academic Module (Original), along with other application documents during the application period.

Department	Type of Examination	Exemption
◇Chemistry and Materials Science ◇Organic and Polymeric Materials*	Comprehension	TOEFL iBT score 79, TOEFL PBT score 550, TOEIC score 730, IELTS score 6.5 or higher
◇Bioengineering	and writing of scientific papers	TOEFL iBT score 80, TOEFL PBT score 550, TOEIC score 730, IELTS score 6.5 or higher
\diamondsuit Environmental Chemistry and Engineering		N/A
◇Value and Decision Science	General comprehension and writing	TOEFL iBT score 88, TOEFL PBT score 570, TOEIC score 787, IELTS score 7 or higher
\Diamond Mathematics	Oral presentation	N/A

*Applicants can choose one from a) Taking the departmental examination, b) Submitting the English proficiency test score report and c) Both a) Taking the departmental examination & b) Submitting the English proficiency test score report. For details, applicants should contact Professor Takehiko Mori, E-mail: mori.t.ae@m.titech.ac.jp.

2) Departments not offering a departmental examination of English

The following departments will not offer departmental examinations but instead request the submission of TOEFL-iBT, TOEFL-PBT, TOEIC or IELTS Academic Module English proficiency test scores.

Department	Type of Score report	Submission Methods
 Chemistry Earth and Planetary Sciences Chemical Engineering Mechanical Sciences and Engineering Mechanical and Control Engineering Mechanical and Aerospace Engineering Civil Engineering Nuclear Engineering Life Science Biological Sciences Biomolecular Engineering Innovative and Engineered Materials Electronic Chemistry Materials Science and Engineering Built Environment Energy Sciences Mechanical and Environmental Informatics (Mechano-Informatics Group) 	Original (Photocopy is not	Submit with other application documents during the application period.
 Physics (Particle, Nuclear and Astro-Physics) Physics (Condensed Matter Physics) Metallurgy and Ceramics Science Electrical and Electronic Engineering Physical Electronics Communications and Computer Engineering Architecture and Building Engineering International Development Engineering Biological Information Environmental Science and Technology Electronics and Applied Physics Computational Intelligence and Systems Science Information Processing Mathematical and Computing Sciences Mechanical and Environmental Informatics (Environmental Informatics Group) Social Engineering 	acceptable)	Submit your score report with the other application documents during the application period. In case that your score report is delayed, submit it to the intended department by the date of the examination.

Note:

As an exception to the above 1) and 2), applicants for the doctoral program may be able to take an oral examination. Applicants should consult with their intended academic advisor in advance.

List of Faculties Tokyo Institute of Technology International Graduate Program (C) 2015

Graduate School of Science and Engineering (1)Dept. of Mathematics

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	AKUTAGAWA, Kazuo	Differential geometry, geometric and global analysis	
Professor	ENDO, Hisaaki	Topology	
Professor	HONDA, Nobuhiro	Complex geometry	
Professor	KATO, Fumiharu	Algebraic geometry, Arithmetic geometry	
Professor	NAITO, Satoshi	Representation theory	
Professor	SHIGA, Hiroshige	Complex analysis	
Professor	TONEGAWA, Yoshihiro	Partial differential equations, Geometric measure theory	
Professor	YAMADA, Kotaro	Differential geometry	
Professor	YANAGIDA, Eiji	Partial differential equations	
Professor	*NISHIBATA, Shinya	Theory of Partial Differential Equations	
Professor	*SAITO, Shuji	Arithmetic geometry, Algebraic geometry	
Professor	*UMEHARA, Masaaki	Differential Geometry	
Associate Professor	HATTORI, Toshiaki	Geometry	
Associate Professor	ISOBE, Takeshi	Geometric analysis, Variational problems	
Associate Professor	KALMAN, Tamas	Topology	
Associate Professor	KAWAHIRA, Tomoki	Complex dynamics, Complex analysis	
Associate Professor	KUWADA, Kazumasa	Probability theory, Stochastic analysis	
Associate Professor	MA, Shohei	Algebraic geometry	
Associate Professor	MIZUMOTO, Shin-ichiro	Theory of automorphic forms	
Associate Professor	SUZUKI, Masatoshi	Analytic Number Theory	
Associate Professor	YONEDA, Tsuyoshi	Partial differential equations, Fluid dynamics	

Associate Professor	*MIURA, Hideyuki	Theory of Partial differential equations	
Associate Professor	*TERASHIMA, Yuji	Differential topology, Mathematical physics, Arithmetic topology	

(2)Dept. of Physics (Particle-, Nuclear-, and Astro-Physics)

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	OKA, Makoto	Nuclear and Hadron Physics (Theory)	
Professor	ITO, Katsushi	Particle Physics (Theory)	
Professor	KAWAI, Nobuyuki	Astrophysics (Experiment)	
Professor	SHIBATA, Toshi-Aki	Particle and Hadron Physics (Experiment)	
Professor	NAKAMURA, Takashi	Nuclear Physics (Experiment)	
Associate Professor	IMAMURA, Yosuke	Particle Physics (Theory)	
Professor	YAMAGUCHI, Masahide	Cosmology and Astrophysics(Theory)	
Associate Professor	KUZE, Masahiro	Particle Physics (Experiment)	
Associate Professor	JINNOUCHI, Osamu	High Energy Particle Physics (Experiment)	
Associate Professor	SOMIYA, Kentaro	Gravitational Wave Detector	
Adjunct Professor	*DOTANI, Tadayasu	X-ray Astronomy (Experiment)	JAXA
Adjunct Professor	*MATSUHARA, Hideo	Infrared Astronomy (Experiment)	JAXA
Adjunct Associate Professor	*HIYAMA, Emiko	Nuclear Physics (Theory)	Riken

* indicates person who belongs to other department.

(3)Dept. of Physics (Condensed Matter Physics)

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	NISHIMORI, Hidetoshi	Statistical physics, Spin glasses	
Professor	SAITO, Susumu	Theoretical Condensed Matter Physics	
Professor	YOSHINO, Junji	Surface science, semiconductor spintronics	
Professor	TANAKA, Hidekazu	Magnetism, quantum spin system, frustrated magnets, low-dimensional magnet	
Professor	FUJISAWA, Toshimasa	Electron dynamics in semiconductor nanostructures	

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Professor	*HIRAYAMA, Hiroyuki	Surface & Interface Physics	
Professor	*MUNEKATA, Hiro	Spin-photonics, Experimental condensed matter physics	
Professor	*NOTOMI, Masaya	Photonic Nanostructure research	
Professor	*HASHIZUME, Tomihiro	Surface and interface physics, nanoscale materials physics and device applications	
Professor	MURAKAMI, Shuichi	Theoretical Condensed Matter Physics, spintronics, geometrical phases	
Professor	KOZUMA, Mikio	Quantum optics, Laser cooling, Bose Einstein condensation	
Associate Professor	KOGA, Akihisa	Strongly correlated electron systems	
Associate Professor	NISHIDA, Yusuke	Theoretical Quantum Physics, Ultracold Atoms	
Associate Professor	SASAMOTO, Tomohiro	Statistical physics	
Professor	IZAWA, Koichi	Unconventional superconductivity, strongly correlated electron systems	
Associate Professor	KANAMORI, Hideto	Cold molecules, High-resolution spectroscopy of molecules	
Associate Professor	MATSUSHITA, Michio	Optical spectroscopy of single proteins	
Professor	OKUMA, Satoshi	Low Temperature Physics, Superconductivity	
Associate Professor	HIRAHARA, Toru	Surface Physics, Nano / spin-Science	
Associate Professor	AIKAWA, Kiyotaka	Atomic and molecular physics, Quantum optics, Laser cooling	
Associate Professor	TAKEUCHI, Kazumasa	Critical phenomena and dynamics of non-equilibrium systems, Liquid-crystal turbulence	

(4)Dept. of Chemistry

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	ISHITANI, Osamu	Photochemistry	
Professor	KAWAGUCHI, Hiroyuki	Coordination Chemistry	
Professor	KOUCHI, Noriyuki	Physical Chemistry on Elementary Processes	
Professor	KIGUCHI, Manabu	Surface Chemistry	
Professor	OHSHIMA, Yasuhiro	Physical Chemistry, Laser Science	
Professor	SUZUKI, Keisuke	Organic Chemistry	
Professor	IWASAWA, Nobuharu	Organic Chemistry	

Professor	GOTO, Kei	Organic Chemistry	
Professor	OKADA, Tetsuo	Analytical Chemistry	
Professor	NOGAMI, Kenji	Geochemistry, Volcanology	
Associate Professor	MAEDA, Kazuhiko	Inorganic Materials Chemistry, Photocatalysis	
Associate Professor	HIBARA, Akihide	Analytical Chemistry	
Associate Professor	KITAJIMA, Masashi	Physical Chemistry	
Associate Professor	KAWAI, Akio	Photochemistry, Laser spectroscopy	
Associate Professor	OHMORI, Ken	Organic Chemistry	
Associate Professor	TAKAYA, Jun	Organic Chemistry	
Associate Professor	IHARA, Manabu	Electrochemistry, Energy conversion	
Associate Professor	KUDO, Fumitaka	Bioorganic Chemistry	
Associate Professor	TERADA, Akihiko	Volcanology	

(5)Dept. of Earth and Planetary Sciences

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	*HIROSE, Kei	High-Pressure Earth Science, Origin of the Earth	
Professor	*IDA, Shigeru	Planetary Formation, Numerical Simulation	
Professor	TSUNAKAWA, Hideo	Geo- and Planetary Magnetism	
Professor	NAKAMOTO, Taishi	Astrophysics, Planetary Formation	
Professor	*OGAWA, Yasuo	Geomagnetism, Volcanology, Seismology	
Professor	*IWAMORI, Hikaru	Solid Earth Geochemistry	
Associate Professor	NOMURA, Hideko	Planetary System Formation Theory, Interstellar Physics and Chemistry	
Associate Professor	SATO, Bunei	Observational Astronomy, Exoplanets	
Associate Professor	UENO, Yuichiro	Geology, Biogeochemistry	
Associate Professor	YOKOYAMA, Tetsuya	Geochemistry, Cosmochemistry	
Associate Professor	*KANDA, Wataru	Physical Volcanology, Geomagnetism	

Associate Professor	*KITAMURA, Yoshimi	Radio and Infrared Astronomy	
Lecturer	OHTA, Kenji	Study of the Earth's Deep Interior, High-Pressure Mineral Physics	

(6)Dept. of Chemistry and Materials Science

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	EGUCHI, Tadashi	Natural Product Chemistry, Bioorganic Chemistry, Biochemistry	
Professor	KOSHIHARA, Shinya	Photo-induced Cooperative Phenomena, Optical Properties of Solids	
Professor	KOMATSU, Takayuki	Catalytic Chemistry	
Professor	YASHIMA, Masatomo	Materials Science, Crystallography, Solid State Chemistry & Physics, Solid State Ionics, Crystal Structure Analysis, New Inorganic Materials	
Professor	TOYOTA, Shinji	Physical Organic Chemistry	
Professor	ANDO, Shinji	Structures and Physical Properties of Solid State Polymeric Materials	
Professor	OUGIZAWA, Toshiaki	Physical Chemistry of Polymeric Materials	
Professor	NISHIKATA, Atsushi	Metallurgical Electrochemistry, High Temperature Electrochemistry, Corrosion	
Professor	YAMANAKA, Ichiro	Electrochemistry, Oxidation Chemistry	
Professor	YANO, Tetsuji	Inorganic Glasses, Ion-Dynamics and Optical Properties	
Associate Professor	UEKUSA, Hidehiro	Chemical Crystallography, Organic Crystal Chemistry	
Associate Professor	OKIMOTO, Yoichi	Optical Spectroscopy of Solids	
Associate Professor	SATOH, Mitsuru	Physical Chemistry of Polymer and Aqueous Systems	
Associate Professor	ASAI, Shigeo	Physical Properties of Organic Materials, Polymer Composites	
Associate Professor	TADA, Eiji	Corrosion and Environmental Degradation of Materials	

(7a)Dept. of Metallurgy and Ceramics Science (Metallurgy Group)

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	NAKAMURA, Yoshio	Applied Diffraction Crystallography, Nano-Structured Materials	
Professor	SHI, Ji	Physical Properties of Metals, Magnetic Thin Films	
Professor	FUJII, Toshiyuki	Crystallography of Microstructures	

Professor	SUSA, Masahiro	Physical Chemistry of Metals, Materials Metrology	
Professor	TAKEYAMA, Masao	Physical Metallurgy of Intermetallic and Ferrous Materials, Phase Transformations of Alloys,Deformation in Solid	
Professor	KUMAI, Shinji	Mechanical Metallurgy, Fatigue, Joining and Solidification	
Professor	*NISHIKATA, Atsushi	Metallurgical Electrochemistry, High Temperature Electrochemistry, Corrosion	
Professor	*ONAKA, Susumu	Mechanical Properties of Materials	
Professor	*KAJIHARA, Masanori	Thermodynamics and Kinetics	
Professor	*HOSODA, Hideki	Materials Design, Shape Memory Alloys, Intermetallic Compounds	
Associate Professor	KAWAMURA, Kenichi	High Temperature Physical Chemistry, Solid State Ionics	
Associate Professor	KOBAYASHI, Equo	Physical Metallurgy of Non-ferrous Metals and Intermetallics, Design and Evaluation of Biomedical Materials	
Associate Professor	HAYASHI, Miyuki	Thermophysical Properties of Materials, High Temperature Process Control	
Associate Professor	UEDA, Mitsutoshi	High Temperature Oxidation of Metals, Defect Chemistry in Oxides, Physical Chemistry at High Temperature	
Associate Professor	KOBAYASHI, Satoru	Phase diagrams and phase transformations in alloys, Physical metallurgy of ferrous alloys, Heat resistant steels and alloys	
Associate Professor	MURAISHI, Shinji	Micromechanics, Nanostructured Material, Crystal Defects	
Associate Professor	*TADA, Eiji	Corrosion and Environmental Degradation of Materials	
Associate Professor	*SONE, Masato	Micro/Nano Materials Engineering & Science	
Associate Professor	*KIMURA, Yoshisato	Microstructure Control and Characterization of Intermetallic Alloys	
Associate Professor	*TERADA, Yoshihiro	Microstructure Control, Mechanical Properties, Heat-Resistant Materials	
Associate Professor	*NAKADA, Nobuo	Microstructure and Mechanical Properties of Iron and Steels	
Associate Professor	*INAMURA, Tomonari	Shape Memory Alloy, Crystallography of Phase Transformation	
Associate Professor	*SANNOMIYA, Takumi	Functional Nanomaterials, Plasmonics, Electron Microscopy	

(7b)Dept. of Metallurgy and Ceramics Science (Ceramics Group)

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	NAKAJIMA, Akira	Environmental Ceramics, Surface Functional Materials	
Associate Professor	IKOMA, Toshiyuki	Bioceramics, Biosensing, Nanomedicine, Tissue Engineering	
Associate Professor	TAKEDA, Hiroaki	Electroceramics, Crystal Growth of Functional materials	
Associate Professor	MIYAUCHI, Masahiro	Photo-electrochemistry, Photocatalysis, Chemical Synthesis of Nanoparticles	
Associate Professor	MATSUSHITA, Sachiko	Top-Down and Bottom-Up Fabrication of Nanomaterials, Near-Field Optics	
Professor	*YANO, Toyohiko	Processing and Characterization of Engineered Ceramics, Ceramic Matrix Composites, Nuclear Reactor Materials	Master's program only

*indicates person who belongs to other department.

(8a)Dept. of Organic and Polymeric Materials (Chemistry Group)

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	TAKATA, Toshikazu	Supramolecular Chemistry, Synthetic Polymer Chemistry	
Professor	SERIZAWA, Takeshi	Biomacromolecular Chemistry, Biomaterials Science and Engineering, Molecular Assembly	
Associate Professor	SAITO, Reiko	Polymer Synthesis, Template Polymerization, Organic-inorganic Composites	
Professor	ISHIZONE, Takashi	Polymer Synthesis, Living Polymerization	
Professor	OTSUKA, Hideyuki	Polymer Reactions, Smart Polymeric Materials, Polymer Synthesis	
Associate Professor	KONISHI, Gen-ichi	Polymer Synthesis, Photochemistry	

(8b)Dept. of Organic and Polymeric Materials (Materials Group)

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	KIKUTANI, Takeshi	Fiber and Polymer Processing, Physical Properties of Polymers	
Professor	TEZUKA, Yasuyuki	Synthetic Polymer Chemistry	
Professor	MORI, Takehiko	Physical Chemistry of Organic Materials	
Professor	OUCHI, Yukio	Physical Chemistry	
Professor	MORIKAWA, Junko	Polymer Processing, Thermal Properties of Polymers	
Associate Professor	ISHIKAWA, Ken	Optical and Electrical Properties of Organic Materials	

Associate Professor	SHIOYA, Masatoshi	Polymer Composites, Mechanical Properties, Carbon Materials	
Associate Professor	HAYAKAWA, Teruaki	Polymer Synthesis, Self-Organizing Polymeric Materials	
Professor	VACHA, Martin	Optical Properties of Organic Materials	
Associate Professor	MICHINOBU, Tsuyoshi	Polymer Synthesis, Semiconducting Polymers	
Associate Professor	MATSUMOTO, Hidetoshi	Nano-micro Fabrication, Energy Conversion Materials	
Associate Professor	HAYAMIZU, Yuhei	Bio-interface, Nano Materials	
Professor	*OUGIZAWA, Toshiaki	Physical Chemistry of Polymeric Materials	
Associate Professor	*ASAI, Shigeo	Physical Properties of Organic Materials, Polymer Composites	

(9)Dept. of Chemical Engineering

ACADEMIC ADVISOR		RESEARCH FIELD	REMARKS
Professor	ITO, Akira	Separation Processes, Membrane separation	
Professor	KUBOUCHI, Masatoshi	Polymeric Materials for Chemical Plant, Composite Materials, Material Science	
Professor	SEKIGUCHI, Hidetoshi	Plasma Processing, Thermo-chemical Engineering	
Professor	OKOCHI, Mina	Biotechnology, Biochemical Engineering, Peptide Engineering	
Professor	TAGO, Teruoki	Reaction Engineering, Catalytic Reaction Engineering, Catalyst, Resource Chemical Process	
Associate Professor	TANIGUCHI, Izumi	Aerosol Science and Technology, Powder Technology, Functional Material Processing, Energy Materials	
Associate Professor	FUCHINO, Tetsuo	Process Systems Engineering, Product Management	
Associate Professor	YOSHIKAWA, Shiro	Fluid Dynamics, Transport Phenomena	
Associate Professor	MORI, Shinsuke	Plasma Processing, Heat Transfer	
Associate Professor	SHIMOYAMA, Yusuke	Thermodynamic property, Mass transfer	
Associate Professor	AOKI, Saiko	Tribology, Surface Engineering	
Associate Professor	OOKAWARA, Shinichi	Microfluidic Transport Phenomena, CFD (Computational Fluid Dynamics), Microreactor	

(10)Dept. of Mechanical Sciences and Engineering

ACADEMIC ADVISOR		RESEARCH FIELD	REMARKS
Professor	NOZAKI , Tomohiro	Plasma Materials Science, Reaction Engineering, Thermal Engineering	
Professor	INOUE, Takayoshi	Microscale Thermal Engineering	
Professor	IWATSUKI, Nobuyuki	Human Friendly Systems, Silent Engineering	
Professor	TAKAHARA, Hiroki	Structural Dynamics	
Professor	TAKEDA, Yukio	Mechanical Systems Design	
Professor	OHTAKE, Naoto	Manufacturing Science and Technology	
Professor	HIRATA, Atsushi	Surface Engineering	
Professor	KISHIMOTO Kikuo	Solids and Structures Engineering	
Professor	TODOROKI, Akira	Solids and Structures Engineering	
Professor	CROSS, Jeffrey Scott	Japan's Energy Mix and Biomass Engineering	
Professor	KIKUCHI, Masao	Materials Engineering	
Associate Professor	OKAWA, Seiji	Thermal Science and Engineering	
Associate Professor	OSHIMA, Shuzo	Fluid Science and Engineering	
Associate Professor	MURAKAMI, Yoichi	Energy and Thermal Engineering	
Associate Professor	OKADA, Masafumi	Robotics, Control Engineering	
Associate Professor	NAKANO, Yutaka	Vibration Engineering	
Associate Professor	AKASAKA, Hiroki	Synthesis and Evaluation of Inorganic Carbon Materials	
Associate Professor	INABA, Kazuaki	Continuum Mechanics	
Associate Professor	MIZUTANI, Yoshihiro	Structural Reliability Engineering	
Associate Professor	MOUGENOT, Celine	Design Engineering	
Associate Professor	YOSHIDA, Takako	Applied Brain Science	
Associate Professor	TANAKA, Shinji	Tribology	

(11)Dept. of Mechanical and Control Engineering

ACADEMIC ADVISOR		RESEARCH FIELD	REMARKS
Professor	NAKAMURA, Haruo	Fracture Mechanics, Strength of Materials	
Professor	YOSHINO, Masahiko	Nano/micro Manufacturing	
Professor	INOUE, Hirotsugu	Mechanics of Materials, Non-destructive Testing	
Professor	SATOH, Isao	Energy Applications	
Professor	YAMAURA, Hiroshi	Mechatronics, Dynamics, Control	
Professor	INOU, Norio	Biomechanics	
Professor	HACHIYA, Hiroyuki	Ultrasonic Measurements, Acoustic Imaging	
Professor	OKUTOMI, Masatoshi	Computer Vision, Image Processing	
Professor	KURABAYASHI, Daisuke	Biorobotic systems, Distributed systems, Motion planning	
Professor	SAMPEI, Mitsuji	Control Theory	
Professor	FUJITA, Masayuki	Systems and Control	
Professor	HIRAI, Shuichiro	Global Environment Engineering	
Professor	HANAMURA, Katsunori	Environmental Thermal Engineering	
Associate Professor	YOSHIOKA, Hayato	Ultraprecision Mechanical System	
Associate Professor	YAMAMOTO, Takatoki	Bionanotechnology, Micro TAS	
Associate Professor	SAKAGUCHI, Motoki	Mechanics and Strength of Materials	
Associate Professor	FUSHINOBU , Kazuyoshi	Energy Phenomena	
Associate Professor	SAITO, Takushi	Laser Processing, Material Processing	
Associate Professor	OHYAMA , Shinji	Measurement Science	
Associate Professor	TANAKA, Masayuki	Computational photography, Image processing	
Associate Professor	TSUKAGOSHI, Hideyuki	Search and rescue robot, Fluid powered robot, Medical actuator	
Associate Professor	YAMAKITA, Masaki	Control Engineering, Robotics	
Associate Professor	HATANAKA, Takeshi	Control of network systems	

(12)Dept. of Mechanical and Aerospace Engineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	TANAHASHI, Mamoru	Fluid Dynamics, Heat and Mass Transfer, Combustion	
Professor	KOSAKA, Hidenori	Thermodynamics, Fluid Dynamics, Internal Combustion Engine	
Professor	OKUMA, Masaaki	Structural Dynamics, Acoustics, Optimum Design, CAE	
Professor	KYOGOKU, Keiji	Tribology	
Professor	SUZUMORI, Koichi	Robotics, Soft Robotics, Actuator	
Associate Professor	SHIMURA, Masayasu	Fluid Dynamics, Heat and Mass Transfer, Combustion, Combustion Control	
Associate Professor	SATO Susumu	Thermodynamics, Combustion Reaction, Exhaust Emission, Alternative Fuel	
Associate Professor	HORIUTI, Kiyosi	Fluid Physics, Turbulence	
Associate Professor	SAKAMOTO, Hiraku	Space Structures, Dynamics, Numerical Analysis	
Associate Professor	YAMAZAKI, Takahisa	Materials for Space Use, Advanced Joining and Surface Coating	
Associate Professor	SAITO, Shigeki	Micromechanics, Micro Robotics	
Associate Professor	ENDO, Gen	Robotics, Mechatronics, Mechanism Design	
Professor	*MATUNAGA, Saburo	Space Systems Engineering, Space Robotics, Small Satellite	

*indicates person who belongs to the Institute of Space and Astronautical Science (ISAS), JAXA.

(13)Dept. of Electrical and Electronic Engineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	AKAGI, Hirofumi	Power Electronics, Power Systems	
Associate Professor	FUJITA, Hideaki	Power Electronics, Electrical Machinery	
Associate Professor	HAGIWARA, Makoto	Power Electronics, Smart Grid, Renewable Energy	
Adjunct Professor	NAKADE, Masahiko	Power Cable, Degradation Diagnostic Technology, Electric Power Engineering	
Professor	YASUOKA, Koichi	Plasma and Pulsed Power Engineering	
Lecturer	TAKEUCHI, Nozomi	Applications of Plasma on Gas-Liquid Interface, Electrohydrodynamics and its Applications	
Professor	CHIBA, Akira	Drive Electronics, Power Mechatronics, Intelligent Drive	
Professor	ANDO, Makoto	Antennas, Millimeter Wave Communication/Sensing Systems, Electromagnetic Wave Theory	

Associate Professor	HIROKAWA, Jiro	Antennas, Electromagnetic Wave Theory	
Professor	MIZUMOTO, Tetsuya	Lightwave Circuits, Integrated Optics	
Associate Professor	SHOJI, Yuya	Lightwave Circuits, Optical Communication	
Professor	ARAI, Shigehisa	Semiconductor Optical Devices, Opto- and Quantumelectronics, Optical Communication	
Associate Professor	NISHIYAMA, Nobuhiko	Optical Circuits, Semiconductor Optical Devices, Optical Transmission Systems	
Professor	NANAHARA Toshiya	Power Systems, Renewable energy	

(14)Dept. of Physical Electronics

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	YAMADA, Akira	Semiconductor Physics, Solar Cells, Compound Thin-Film Solar Cells	
Associate Professor	MIYAJIMA, Shinsuke	Semiconductor Materials and Devices, Solar Cells, Thin-Film Solar Cells	
Professor	IWAMOTO, Mitsumasa	Electronic Materials, Molecular Electronics, Organic Materials Electronics	
Associate Professor	MANAKA, Takaaki	Organic Devices, Nonlinear Optics	
Professor	MIYAMOTO, Yasuyuki	Semiconductor Process/Devices	
Associate Professor	SUZUKI, Safumi	Ultra High-Speed Electronic Devices, Terahertz Wireless Communication	
Professor	FUKUDA, Koichi	Semiconductor Device Simulation	
Professor	ODA, Shunri	Quantum Nano Devices, Semiconductor Devices	
Associate Professor	KAWANO, Yukio	Nano Electronics and Mechanics, Solid-State Physics and Engineering	
Professor	HATANO, Mutsuko	Applied Physics, Electron Devices, Electronic Materials	
Associate Professor	KODERA, Tetsuo	Electron Devices, Power Devices, Sensing Devices	
Professor	NAKAGAWA, Shigeki	Information Storage Devices, Spintronics, Magnetic Materials	
Associate Professor	PHAM, Nam Hai	Semiconductor Spintronic Materials, Magnetic Semiconductors, Spintronic Devices	
Professor	MATSUZAWA, Akira	Integrated Circuits, Mixed Signal LSI Design	
Associate Professor	OKADA, Kenichi	Wireless Circuit Design, Analog Circuit Design	

(15)Dept. of Communications and Computer Engineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	FUKAWA, Kazuhiko	Mobile Communications, Signal Processing, Adaptive Filter Theory	
Professor	*OGATA, Wakaha	Information Security, Cryptography	
Professor	TAKAGI, Shigetaka	Integrated Circuits, Circuit Theory	
Professor	TAKAHASHI, Atsushi	VLSI CAD, Physical Design, Synchronous Circuits	
Professor	UENO, Shuichi	Theory of Parallel, VLSI and Quantum Computation	
Professor	UYEMATSU, Tomohiko	Information Theory, Coding Theory	
Professor	YAMADA, Isao	Signal Processing, Communication Theory, Optimization Theory, Inverse Problems	
Associate Professor	HARA, Yuko	Hardware/Software Co-design, Reliable Embedded Systems	
Professor	ISSHIKI, Tsuyoshi	System-LSI Design Methodology, Embedded Processor Design	
Associate Professor	KASAI, Kenta	Coding Theory, LDPC Codes, Spatially Coupled Codes	
Associate Professor	MATSUMOTO, Ryutaroh	Quantum Information Theory, Coding Theory	
Associate Professor	YAMAOKA, Katsunori	Information and Communication Network	

* indicates person who belongs to other department.

(16)Dept. of Civil Engineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	NIWA, Junichiro	Structural Concrete	
Professor	ASAKURA, Yasuo	Transportation Planning & Engineering	
Professor	KITAZUME, Masaki	Soil Mechanics & Geotechnical Engineering	
Professor	IWANAMI, Mitsuyasu	Infrastructure management, Marine structure engineering	
Professor	KANAE, Shinjiro	Hydrology, Hydrologic cycle, Water resources	
Professor	*HIROSE, Sohichi	Applied Solid Mechanics	
Professor	*NADAOKA, Kazuo	Coastal ecosystem conservation studies, integrated coastal zone management, coastal oceanography and engineering	
Professor	*YAI, Tetsuo	Transportation Planning & Engineering	
Professor	*MORIKAWA, Hitoshi	Earthquake Engineering	

Professor	*KINOUCHI, Takeshi	Hydrology, River Engineering	
Professor	TAKAHASHI, Akihiro	Geotechnical Engineering	
Associate Professor	WIJEYEWICKREMA,C. Anil	Applied Mechanics	
Associate Professor	TAKEMURA, Jiro	Soil Mechanics & Geo-environmental Engineering	
Associate Professor	FUKUDA, Daisuke	Transportation and Infrastructure Planning	
Associate Professor	YOSHIMURA, Chihiro	Environmental Engineering, Biogeochemistry	
Associate Professor	SASAKI, Ei-ichi	Bridge Engineering & Structural Engineering	
Associate Professor	OLIVER, C.S. Valeriano	River & Environmental Engineering	
Associate Professor	*MUROMACHI, Yasunori	Urban Transportation Planning	
Associate Professor	*NAKAMURA, Takeshi	Numerical Fluid Mechanics	
Lecturer	*NAKAMURA, Takashi	Coastal ecosystem modeling & Biogeochemistry	

**contact the department

(17)Dept. of Architecture and Building Engineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	TOKIMATSU, Kohji	Geotechnical Earthquake Engineering	
Associate Professor	TAMURA, Shuji	Geotechnical Earthquake Engineering	
Associate Professor	YAMAZAKI, Taisuke	History of Architecture, Architectural Design	
Professor	FUJII, Haruyuki	Design Science, Architectural Planning and Environmental Design Theories	
Professor	YASUDA, Koichi	Architectural Design	
Associate Professor	MURATA, Ryo	Architectural Design	
Associate Professor	HOTTA, Hisato	Composite Structures	
Professor	TSUKAMOTO, Yoshiharu	Architectural Design and Urban Research	
Professor	TAKEUCHI, Toru	Steel Structure, Structural design, Seismic Control	
Associate Professor	YOKOYAMA, Yutaka	Building Materials	
Associate Professor	YUASA, Kazuhiro	Environmental Engineering, Building Services	

Associate Professor	IKARASHI, Kikuo	Steel Structures	
Professor	SAKATA, Hiroyasu	Concrete Structure, Timber Structure	
Professor	MIYAMOTO, Fumihito	School Building, Environmental Psychology	
Professor	OKUYAMA, Shinichi	Architectural Design	
Associate Professor	SAIO, Naoko	Architectural and Regional Planning	
Professor	*OSARAGI, Toshihiro	Architectural Planning, Spatial Analysis and Urban Studies	
Associate Professor	*MIKAMI, Takamasa	Concrete Engineering, Building Materials	
Associate Professor	*KAGI, Naoki	Environmental Engineering	

(18)Dept. of International Development Engineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	HINODE, Hirofumi	Inorganic Materials and Properties, Catalyst and Chemical, Process, Chemical Engineering in General	
Professor	TAKADA, Jun-ichi	Wireless Communications, Electromagnetic Wave Theory and Application, ICT and Development	
Professor	KANDA, Manabu	Regional Atmospheric Environment	
Professor	NAKASAKI, Kiyohiko	Environmental Bioengineering	
Professor	TAKAHASHI, Kunio	Mechanical Engineering, Mechanics, Material Science, Material Processing	
Professor	YAMAGUCHI, Shinobu	Education and IT, International Development and Cooperation, Sustainable Development of World Cultural Heritage	
Associate Professor	ABE, Naoya	Environmental Economics, Policy Studies for the Environment, International Cooperation	
Associate Professor	HANAOKA, Shinya	Transport Planning, Transport Logistics, Transport Project Management	
Associate Professor	YAMASHITA, Yukihiko	Computer Science, Intelligent Informatics	
Associate Professor	TAKAGI, Hiroshi	Disaster Prevention Engineering, Coastal Engineering	
Associate Professor	EGASHIRA, Ryuichi	Separation Engineering, Separation Process, Separation Operation	
Associate Professor	AKITA, Daisuke	Aerospace Systems, Aerodynamics	

(19)Dept. of Nuclear Engineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	IGASHIRA, Masayuki	Neutron Physics, Nuclear Transmutation, Nuclear Physics	Retirement March 2017

Professor	CHIBA, Satoshi	Nuclear Reactions, Nuclear Decay, Nuclear Data, Radiation Transport, Innovative Nuclear Systems, Medical and Astrophysical Applications	
Professor	YANO, Toyohiko	Materials for Nuclear Reactors and Waste Management,Neutron Irradiation Damage of Materials, CeramicMatrix Composites for Severe Environment	Retirement March 2018
Professor	OBARA, Toru	Reactor Physics, Nuclear Reactor Design, Passive Safe Reactor, Nuclear Safety	
Professor	TAKAHASHI, Minoru	Light Water Reactor and Fast reactor Engineering, Thermal Hydraulics, Nuclear Material, Fusion Reactor Blanket, Liquid Metal Engineering	Retirement March 2018
Associate Professor	KIKURA, Hiroshige	Nuclear Reactor Safety, Process Control and Measurement System, Thermal Hydraulics, Safe Transport of Radioactive Material	
Associate Professor	HAYASHIZAKI, Noriyosu	Accelerator Physics and Engineering, Particle Beam Simulation, Accelerator-Based Boron Neutron Capture Therapy	
Associate Professor	TSUKAHARA, Takehiko	Micro/Nano Fluidics, Nano Interface, Highly Sensitive Detection, Radionuclide Separation and Analysis, Deep Geological Disposal	
Associate Professor	TSUTSUI, Hiroaki	Plasma Physics and Nuclear Fusion, Superconducting Magnetic Energy Storage system	
Associate Professor	SAGARA, Hiroshi	Nuclear safety, security and non-proliferation (3S), Reactor design for high-level-waste transmutation Non-destructive assay technology	
Professor	*OGURI, Yoshiyuki	Heavy-Ion Inertial Fusion, Accelerator-based Environmental and Medical Sciences	
Professor	*TAKESHITA, Kenji	Nuclear Chemical Engineering, Nuclear Fuel Cycle, Fuel Reprocessing, Nuclide Separation (MA, Cs, Sr, Tc, PGM), Isotope Separation, Metal Recycling	
Associate Professor	*AKATSUKA, Hiroshi	Plasma Diagnostics, plasma Spectroscopy, Laser Engineering, Atomic and Molecular Processes in Plasmas	
Professor	*IIO, Shunji	Plasma Physics, Fusion Engineering, Laser Diagnostics	
Associate Professor	*MATSUMOTO, Yoshihisa	Radiation Biology, Molecular Biology and Biochemistry, Basic Medicine	
Professor	*KATO, Yukitaka	Energy Conversion, Energy Storage, Chemical Heat Pump, Carbon Recycling Energy System, Hydrogen Energy, Nuclear Energy Utilization System	
Professor	KOBAYASH, Yoshinao	Safety Metallurgy for Nuclear Reactors, Phase Stability, Degradation of Materials in Reactors, Waste Management	
Associate Professor	TAKAO, Koichiro	Actinide Chemistry, Coordination Chemistry, Nuclear Fuel Cycle, Fuel Reprocessing, Radioactive Wastes, Decontamination	

Graduate School of Bioscience and Biotechnology (20)Dept. of Life Science

ACADEMIC ADVISOR		RESEARCH FIELD	REMARKS
Professor	ICHINOSE, Hiroshi	Molecular Biology and Neuroscience	
Professor	MURAKAMI, Satoshi	Structural Biology, Protein Crystallography	

Professor	YUASA, Hideya	Bioorganic Chemistry	
Professor	KAJIWARA, Susumu	Molecular Biology and Microbe Biotechnology	
Associate Professor	OSADA, Toshiya	Neuroscience	
Associate Professor	HAYASHI, Nobuhiro	Molecular Biology and Proteomics	
Associate Professor	SEIO, Kohji	Bioorganic Chemistry	
Associate Professor	OHKUBO, Akihiro	Bioorganic Chemistry	
Associate Professor	*AIZAWA, Yasunori	Cellular Genomics	

*indicates person who belongs to other department or institute.

(21)Dept. of Biological Sciences

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	KOMADA, Masayuki	Medical Cell Biology and Biochemistry	
Professor	IWASAKI, Hiroshi	Molecular Genetics and Molecular Biology	
Professor	KIMURA, Hiroshi	Epigenetics and Cell Biology	
Professor	HONGOH, Yuichi	Molecular Microbial Ecology	
Professor	OHTA, Hiroyuki	Plant Molecular Biology	
Associate Professor	NAKAMURA, Nobuhiro	Molecular Cell Biology	
Associate Professor	NAKATOGAWA, Hitoshi	Molecular Biology and Biochemistry	
Associate Professor	NIKAIDO Masato	Molecular Evolutionary Biology	
Associate Professor	SHIMOJIMA Mie	Plant Molecular Biology and Biochemistry	
Associate Professor	TANAKA, Mikiko	Developmental Biology	
Associate Professor	KAJIKAWA, Masaki	Molecular Biology	
Associate Professor	*MASUDA, Shinji	Plant Molecular Biology and Photobiology	
Associate Professor	*SUZUKI, Takashi	Neurobiology	

*indicates person who belongs to other department.

(22)Dept. of Biological Information

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	KUME, Shoen	Stem Cell Biology, Regenerative Medicine	
Professor	YAMAGUCHI, Yuki	Control of Gene Expression	
Professor	ITOH, Takehiko	Bioinformatics	
Professor	KUROKAWA, Ken	Genome Science and Bioinformatics	
Professor	TOKUNAGA, Makio	Single Molecule Biology, Immune Cell Signaling, Molecular Systems Biology	
Associate Professor	KOTERA, Masaaki	Chemical Bioinfomatics	
Associate Professor	SHIRAKI, Nobuaki	Stem Cell Biology	
Associate Professor	*TACHIBANA, Kazunori	Cell and Developmental Biology	
Associate Professor	KAWAKAMI, Atsushi	Developmental Genetics, Regenerative Biology	
Associate Professor	NAKASHIMA, Nobutaka	Bacterial metabolic engineering, Synthetic biology	
Associate Professor	YAMADA, Takuji	Genome Science and Bioinformatics	

*indicates person who belongs to other department.

(23)Dept. of Bioengineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	NAKAMURA, Satoshi	Protein Engineering, Genetic Engineering and Directed Evolution	
Professor	MIHARA, Hisakazu	Bioorganic Chemistry and Peptide Chemistry	
Professor	KOBAYASHI, Yuichi	Synthetic Organic Chemistry, Synthesis of Biologically Active Compounds, Drug Design	
Professor	WACHI, Masaaki	Applied Microbiology	
Professor	TANJI, Yasunori	Biochemical Engineering and Environmental Microbiology	
Professor	FUKUI, Toshiaki	Genetic Engineering, Genome Engineering, Extremophiles	
Associate Professor	HIRASAWA, Takashi	Molecular Microbiology and Metabolic Engineering	
Associate Professor	KAMACHI, Toshiaki	Development of Enzymatic Reaction System with Metalloenzyme	
Associate Professor	OGURA, Shun-ichiro	Molecular Biology, Alternative Therapy for Tumor, Biometabolic Engineering, Biomarker	
Associate Professor	MATSUDA, Tomoko	Bioorganic Chemistry, Biocatalysis, Green Chemistry	

Associate Professor	ASAKURA, Noriyuki	Bioinorganic Chemistry, Biological Electron Transfer	
Associate Professor	*HIROTA, Junji,	Molecular Mechanisms of the Development of Olfactory System	

(24)Dept. of Biomolecular Engineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	URABE, Hirokazu,	Organic Synthesis, Asymmetric Synthesis	
Associate Professor	HATA, Takeshi	Organic Synthesis, Asymmetric Synthesis	
Associate Professor	☆OHTANI, Hiroyuki	Biophysical Chemistry	
Professor	Kazushi Kinbara	Bioinspired Synthetic Chemistry	
Associate Professor	MORI, Toshiaki	Bioorganic Chemistry, Polymer Chemistry	
Professor	*SAKURAI, Minoru	Biophysical Chemistry, Computational Chemistry	
Professor	UENO, Takafumi	Biophysical Chemistry, Biosupramolecular Chemistry	
Professor	KONDO, Shinae	In Vivo Imaging, Cancer Biology, Drug Development	
Professor	TAGUCHI, Hideki	Biophysical Chemistry, Protein Folding	
Professor	MARUYAMA, Atsushi	Biomaterials, Bioconjugates, Biofunctional Polymers	
Associate Professor	TAGAWA, Yoh-ichi	Developmental Engineering, Molecular Biology, Artificial Organ, Immunology	

*indicates person who belongs to other department.

 \ddagger indicates person who is to retire in March, 2017.

Interdisciplinary Graduate School of Science and Engineering (25)Dept. of Innovative and Engineered Materials

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	YOSHIMOTO, Mamoru	Oxide Nano-Engineering, Device, Solar cell	
Associate Professor	MATSUDA Akifumi	Atomic-scale Materials Engineering, Materials for Electronics and Energy Applications	
Associate Professor	TSUGE, Takeharu	Biodegradable Plastics	
Professor	FUNAKUBO, Hiroshi	Materials Science, Thin Film Devices	
Associate Professor	WADA, Hiroyuki	Optical Materials, Nanoparticles	
Associate Professor	SANNOMIYA, Takumi	Plasmonic Materials, Electron Microscopy	

Professor	KITAMOTO, Yoshitaka	Nanoparticles, Magnetic Materials and Devices, Spintronics	
Professor	HARA, Michikazu	Catalysis, Surface Science	
Associate Professor	KAMATA, Keigo	Catalytic Chemistry, Environment-Friendly Chemical Process	
Professor	KAMIYA, Toshio	Semiconductors, Optoelectronic Devices, Computer simulation	
Associate Professor	SASAGAWA, Takao	Strongly Correlated Electron Systems	
Professor	HOSODA, Hideki	Shape Memory Alloys, Intermetallics	
Associate Professor	INAMURA, Tomonari	Shape Memory Alloys, Intermetallics	
Professor	AZUMA, Masaki	Solid State Chemistry	
Associate Professor	NAKAMURA, Kazutaka	Laser Spectroscopy	
Associate Professor	NAGAI, Keiji	Energy Conversion Materials, Organophotocatalyst Responsive to Whole Visible Light	
Associate Professor	KITANO, Masaaki	Heterogeneous Catalyst, Ammonia Synthesis, Acid Base Catalyst	
Associate Professor	TADA, Tomofumi	Quantum Chemistry for Device Modeling	
Visiting Professor	KONDO, Michio	Amorphous Semiconductors, Plasma Processing	
Visiting Professor	SAKATA, Osami	Synchrotron Radiation Analysis, Atomic-Scale Innovation, Device	
Visiting Professor	YAMAGUCHI, Takao	Engineering Materials Technology for Human Space Systems	
Visiting Professor	ABE, Hideki	Polymer Chemistry	
Visiting Professor	KAJINO, Tsutomu	Energy Conversion Materials and Systems, Biomimetics, Photocatalyst	
Visiting Professor	TANAKA, Takuo	Metamaterials, Nanophotonics, Plasmonics	

(26)Dept. of Electronic Chemistry

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	KANNO, Ryoji	Solid State Electrochemistry, Inorganic Materials Chemistry	
Professor	HARA, Masahiko	Materials Chemistry (Self-Assembly, Surface & Interface Chemistry), Nanotechnology, Scanning Probe Microscopy, Nanophotonics, Bio-interface, Origin of Life and Chemical Evolution Experiments	
Professor	TOMITA, Ikuyoshi	Polymer Synthetic Chemistry	
Professor	FUJII, Masaaki	Physical Chemistry, Laser Spectroscopy, Cluster	

Professor	NAKAMURA, Hiroyuki	Organic Synthesis, Medicinal Chemistry, Chemical
110105501		Biology
Professor	FUKUSHIMA, Takanori	Organic Functional Materials, Nanomaterials,
110165501		π-Electronic Systems, Molecular Assembly
		Evolutional Cell Biology, Cell Cycle, Signal
Professor	TANAKA, Kan	Transduction, Microbiology, Symbiosis, Organelle,
rolessor	TANAKA, Kali	Chloroplast, Mitochondria, Transcriptional Regulation,
		Plant Physiology, Photosynthesis
Professor	KAWAJI, Hitoshi	Physical Chemistry of Materials, Phase Transition
Associate Professor	KITAMURA, Fusao	Electrochemistry, Spectroscopy
Associate		
Professor	SAKAI, Makoto	Physical Chemistry, Laser Spectroscopy
Associate		Novel Solution Processes for Electronic, Energy and
Professor	MATSUSHITA, Nobuhiro	Biomedical Materials
Associate		
Professor	NOMURA, Junko	Catalytic Chemistry, Inorganic Synthesis
Associate		Organometallic Chemistry,
Professor	KOIZUMI, Takeaki	Electrocoordination Chemistry
Associate		Energy Conversion Materials, Inorganic and Solid State
Professor	HIRAYAMA, Masaaki	Chemistry, Electrochemical Interface
Associate		
Professor	INAGI, Shinsuke	Organic Electrochemistry, Polymer Chemistry
Associate		Nanoscience & Nanotechnology, Surface & Interface
Professor	HAYASHI, Tomohiro	Science, Scanning Probe Microscopy, Nanophotonics
Associate		Molecular Biology, Gene Regulation, Genetic
Professor	IMAMURA, Sousuke	Engineering, Biofuel, Algal Biomass
Associate		Synthetic Organic Chemistry, Medicinal Chemistry,
Professor	FUSE, Shinichiro	Natural Product Synthesis, Micro-flow Synthesis

(27)Dept. of Materials Science and Engineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	ONAKA, Susumu	Mechanical Properties of Materials	
Professor	KAJIHARA, Masanori	Thermodynamics and Kinetics of Phase Transformations	
Professor	HIRAYAMA, Hiroyuki	Surface and Interface Physics	
Professor	ITOH, Mitsuru	Inorganic Solid-State Chemistry	
Professor	SASAKI, Satoshi	Diffraction Physics and Materials Science	
Professor	HOSONO, Hideo	Electronic Materials, Superconductors, Oxide Semiconductors, Organic LED	
Professor	WAKAI, Fumihiro	Mechanical Properties of Ceramic Materials	
Professor	MAJIMA, Yutaka	Nanoscale Electronic Materials, Molecular Devices, Scanning Probe Microscopy	

Professor	OBA, Fumiyasu	Design and Exploration for Electronic Materials based on Computational Science	
Visiting Professor	KANISAWA, Kiyoshi	Semiconductor	
Visiting Professor	YOSHINAGA, Naoki	Microstructural Design and Properties of Steel for Automobiles	
Visiting Professor	KAMBE, Hiroshi	Non-ferrous Metals and Alloys for Automobiles, Casting Technique, Solidification	
Associate Professor	KIMURA, Yoshisato	Heat Resistant Alloys and Thermoelectric Materials Design based on Phase Equilibria and Microstructure	
Associate Professor	TERADA, Yoshihiro	Microstructure Control, Mechanical Properties, Heat-Resistant Materials	
Associate Professor	NAKADA, Nobuo	Microstructure and Mechanical Properties of Iron and Steels	
Associate Professor	NAKATSUJI, Kan	Surface and Interface Physics	
Associate Professor	GOHDA, Yoshihiro	Surface and Interface Physics (Theoretical Calculations)	
Associate Professor	TANIYAMA, Tomoyasu	Magnetism in Nanostructures, Spin Electronics, Multiferroics	
Associate Professor	SUSAKI, Tomofumi	Nanometer Sale Control of Oxide Interfaces and Surfaces by Pulsed Laser Deposition	
Associate Professor	ATOU, Toshiyuki	High Pressure and Phase Transformation	
Associate Professor	HIRAMATSU, Hidenori	Superconducting Materials and Devices	
Associate Professor	SONE, Masato	Material Fabrication Process for IC & MEMS	
Associate Professor	MATSUISHI, Satoru	Synthesis and Characterization of Superconducting and Electro-Active Materials	
Visiting Associate Professor	NISHIGUCHI, Katsuhiko	Semiconductor Engineering and Physics, Nanotechnology, Electronic Devices, Transistor	

(28)Dept. of Environmental Science and Technology

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	SZADZANIATZA II. I.	Environmental and Engineering Geophysics,	
rolessor	YAMANAKA, Hiroaki	Strong Motion Seismology	
Professor	TAMURA Totauna	Atmospheric Environmental Turbulence, Wind	
rolessor	TAMURA, Tetsuro	Engineering, Wind Disaster Mitigation	
	MURAYAMA, Takehiko	Environmental Policy & Planning, Risk Assessment &	
Dueferrer		Management, Risk Communication, Environmental	
Professor		Impact Assessment, Policy Dialogue, Social	
		Decision-Making	
		Thermal Recycling of Wastes,	
Professor	YOSHIKAWA, Kunio	Energy Conversion, Thermal Engineering, Atmospheric	
		Environmental Engineering	
Declaration		Watershed Hydrology,	
Professor	KINOUCHI, Tsuyoshi	Environmental Hydrology	

		Environmental Chemical Engineering, Material	
Professor	TAKESHITA, Kenji	Recycling, Waste Management, Separation Engineering	
		(Extraction, Adsorption)	
Declaration	WONO G	Reinforced and prestressed concrete structures,	
Professor	KONO, Susumu	EarthquakeEngineering	
Professor	YAMADA, Satoshi	Structural Engineering, Earthquake Engineering	
Professor	UEDA, Hiroshi	Bioprocess and Protein Engineering, Antibody	
110108501	OEDA, IIIIosiii	Engineering, Analytical Chemistry, Biosensors	
Professor	*YOSHIDA, Naohiro	Biogeochemistry, Environmental Chemistry,	
110105501		Material Cycle Analysis	
Professor	*SAKATA, Hiroyasu	Building Material and Structural Engineering	
Visiting	KAIEDA II: Jack:	Applied geophysics	
Professor	KAIEDA, Hideshi	Geothermal engineering	
Visiting Professor	INOUE, Tetsunori	Environmental Hydrodynamics	
		Recycle Engineering, Chemical Reaction Engineering,	
Visiting	KAMO, Tohru	Environmental Engineering, Optimization of Resource	
Professor		Circulation	
Visiting	AOYAGI, Midori	Sociology of Risk, Environmental Sociology, Risk and	
Professor	AO IAGI, MIdori	Media, Survey Research	
Associate	NAKAMURA, Takashi	Computational Environmental Fluid Dynamics,	
Professor	NAMANIONA, Takasin	Computational Scheme, Multi Physics Simulation	
Associate	TOYODA, Sakae	Environmental Geochemistry, Analysis of	
Professor	1010DA, Dakae	Environmental Material Cycles	
Associate Professor	ASAWA, Takashi	Urban and Built Environmental Engineering	
Associate	NISHIKIZAWA, Shigeo	Environmental Policy and Planning, Public	
Professor	NISHIKIZAWA, Shigeo	Participation, Environmental Impact Assessment	
Associate		Waste management with solid waste recycle, risk	
Professor	TAKAHASHI, Fumitake	assessment, and psychological aspects	
110105501		Supercritical fluid chemistry	
Associate		Energy Technology, Resource Supply and Demand,	
Professor	TOKIMATSU, Koji	Environmental and Resource Economics, Sustainable	
110100001		Development	
		Energy Conversion, Energy Storage, Chemical Heat	
Professor	KATO, Yukitaka	Pump, Carbon Recycling Energy System, Hydrogen	
		Energy, Energy Utilization System	
Associate		Base-Isolation and Passive Control Structure, Seismic	
Professor	KISHIKI, Shoichi	Retrofit for Existing Buildings, Post-Earthquake	
		Damage Evaluation and Rehabilitation	
Associate	KANNO, Yoshihiro	Structural Optimization, Mathematical Design,	
Professor		Computational Solid Mechanics	
Associate	SEKI, Hiroya	Process Systems Engineering, Process Dynamics and	
Professor		Control	
Associate	SATO, Yuriko	Policy Evaluation, Development Economics,	
Professor		International Education, Immigration Policy	
Visiting	ZIZITCI II:	Analite struct Otimestrum National II. and Mithautic	
Associate	KIKITSU, Hitomitsu	Architectural Structure, Natural Hazard Mitigation	
Professor	I		

Visiting Associate	KOBAYASHI, Hideki	Remote Sensing, Agricultural and Forest Meteorology	
Professor			
Visiting	KAJITANI, Shiro	Chamical Engineering Chamical Practice Engineering	
Associate		Chemical Engineering, Chemical Reaction Engineering, Coal and Biomass Gasification	
Professor			

(29)Dept. of Built Environment

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	MIDORIKAWA, Saburoh	Earthquake Engineering and Disaster Management	
Professor	MORIKAWA, Hitoshi	Earthquake Engineering	
Professor	MOTOYUI, Shojiro	Structural Engineering	
Professor	YAI, Tetsuo	Transportation Planning	
Visiting Professor	SUEMATSU, Takashi	Human Behavior Simulation for Disaster	
Associate Professor	FURUYA, Hiroshi	Aerospace Engineering, Multidisciplinary Structural Optimization	
Associate Professor	MATSUOKA, Masashi	Remote Sensing and Geoinformatics for Disaster Management	
Associate Professor	MUROMACHI, Yasunori	Transport and the Environment, Travel Behavior	
Associate Professor	NAKAMURA, Yoshiki	Visual Environment	
Associate Professor	NASU, Satoshi	Architectural Design and Theory Public Space and Community Design	
Associate Professor	SATO, Daiki	Structural Engineering and Earthquake Engineering	
Visiting Associate Professor	SATO, Toshiaki	Urban Geospatial Information Analysis	
Visiting Associate Professor	SOEDA, Masashi	Environmental Psychology	
Visiting Associate Professor	SUZUKI, Atsushi	Energy and Environmental Policy	
Visiting Associate Professor	YANAGISAWA, Jun	Public Space Design , Urban Landscape Design and Architectural Design	
Professor	*MIYAMOTO, Fumihito	School Buildings, Environmental Psychology	
Professor	*OSARAGI, Toshihiro	Geospatial Analysis and Modeling, Disaster Mitigation Planning	
Associate Professor	*FUKUDA, Daisuke	Transportation Planning & Traffic Engineering	

*indicates person who belongs to other department.

(30)Dept. of Energy Sciences

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	KOHNO, Toshiyuki	Physics and Application of High-Energy Heavy-Ion Beams	
Professor	OKAMURA, Tetsuji	Cryogenics, Cooling/Refrigeration Technology, Superconducting Magnet Technology	
Professor	OKUNO, Yoshihiro	Physics and Application of Magnetohydrodynamics, MHD Power Generation, Plasma Science and Engineering	
Professor	SUEKANE, Tetsuya	Energy Conversion, Clean Coal Technology, CO ₂ Geological Storage, Enhanced Oil Recovery	
Professor	AOKI, Takayuki	GPU Computing, Large-scale Computational Fluid Dynamics on Supercomputer, Two-phase Flow Simulation, Natural Disaster Simulation	
Professor	OGURI, Yoshiyuki	Heavy-Ion-Driven Inertial Fusion, Environmental- and Medical Sciences Based on MeV Ion Beams	
Visiting Professor	FUJII, Takashi	High intensity laser physics and application, Laser induced plasma spectroscopy	
Visiting Professor	KURIYAMA, Toru	Cryogenic Engineering, Cryocooler, Applied Superconductivity (LTS Magnets and HTS Magnets)	
Visiting Professor	MATSUFUJI, Naruhiro	Radiation Physics, Medical Application of Charged Particle Beams, Biological Response Modeling	
Associate Professor	NAGASAKI, Takao	Thermal Engineering, Heat and Mass Transfer with Phase Change, Numerical Analysis of Heat and Fluid Flow	
Associate Professor	XIAO, Feng	Computational Fluid Dynamics, Fluid dynamics, Numerical Analysis, Atmospheric Physics, Meteorological Modeling	
Associate Professor	OKINO, Akitoshi	New Atmospheric Plasma Sources, Plasma Application for Medical, Analytical and Environmental Fields	
Associate Professor	WAKI, Keiko	Fuel Cell, Electrochemical Capacitor, Solar Cell	
Associate Professor	KAWAMURA, Toru	Plasma Physics, Atomic Processes in Plasmas, Plasma X-ray Spectroscopy	
Associate Professor	HASEGAWA, Jun	Plasma Science and Technology, Ion Beam Application Studies, Inertial Fusion Studies, High Energy Density Science, Radiation Physics	
Associate Professor	MATSUMOTO, Yoshihisa	Radiation Biology, Molecular Biology and Biochemistry, Basic Medicine	
Associate Professor	IIO, Shunji	Magnetic Confinement Fusion, Laser Diagnostics, Applied Electromagnetics	
Associate Professor	AKATSUKA, Hiroshi	Atomic and Molecular Processes in Plasmas, Plasma Diagnostics and Spectroscopy, Gaseous Electronics	
Associate Professor	*KANAMORI, Hideto	Molecular Spectroscopy, Quantum Electronics, Quantum Computing	

*person who belongs to other department

(31)Dept. of Environmental Chemistry and Engineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	YOSHIDA, Naohiro	Environmental Chemistry, Isotope Chemistry	
Professor	KOBATAKE, Eiry	Protein Engineering, Cellular Engineering, Biosensing	

Professor	BABA, Toshihide	Heterogeneous Catalysis, Green Chemistry, Zeolite Synthesis, Bio Chemistry	
Professor	OSAKADA, Kohtaro	Synthetic Organic Chemistry, Organometallic Chemistry	
Professor	AKITA, Munetaka	Organometallic Chemistry	
Professor	NISHIYAMA, Nobuhiro	Drug Delivery System, Biomaterials Science	
Professor	YAMAGUCHI, Takeo	Fuel Cell Engineering, Bio-inspired Materials, Membrane Science	
Professor	YAMAMOTO, Kimihisa	Nano-materials Chemistry, Metallochemistry, Macromolecular Science	
Professor	HISABORI, Toru	Bioenergetics, Plant Biochemistry	
Professor	*UEDA, Hiroshi	Biotechnology, Protein Engineering	
Visiting Professor	HATANAKA, Shigeto	Petroleum Refining Processes, Heterogeneous Catalysis	
Visiting Professor	KASAI, Yasuko	Remoto Sensing, Atmospheric Science for Earth and Planets, Big Data Analysis for Satellite Observation	
Visiting Professor	OHKOUCHI, Naohiko	Organic Geochemistry	
Associate Professor	YAMADA, Keita	Organic Geochemistry, Isotope Chemistry	
Associate Professor	MIE, Masayasu	Protein Engineering, Tissue Engineering, Biosensing	
Associate Professor	TAKEUCHI, Daisuke	Polymer Chemistry, Organometallic Chemistry	
Associate Professor	SHISHIDO, Atsushi	Polymer Chemistry, Materials Chemistry	
Associate Professor	IMAOKA, Takane	π -Conjugating Molecular Chemistry, Electron Transfer Chemistry, Nanomaterial Science	
Associate Professor	WAKABAYASHI, Ken-ichi	Cell Biology, Cell Motility, Biochemistry	
Associate Professor	YOSHIZAWA, Michito	Supramolecular Chemistry, Coordination Chemistry	
Associate Professor	MOTOKURA, Ken	Heterogeneous Catalysis, Organic Chemistry	
Associate Professor	TAMAKI, Takanori	Energy Materials, Biomaterials, Bioelectrochemistry	
Associate Professor	*SEKI, Hiroya	Process Systems Engineering, Process Dynamics and Control	
Visiting Associate	SAKAMOTO, Yasuharu	Synthetic Organic Chemistry	
Professor *indicates n	erson who belongs to other depar	tment	

(32) Dept. of Electronics and Applied Physics

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	ASADA, Masahiro	Semiconductor Nano-Devices, High-Speed Devices, Terahertz Devices	
Professor	HANNA, Jun-ichi	Imaging Materials, Imaging Science and Engineering	
Professor	KAJIKAWA, Kotaro	Plasmonics, Metamaterials, Nonlinear Optics	
Professor	KOYAMA, Fumio	Photo Integrated Devices for Optical Communication	
Professor	MASU, Kazuya	Diverse-Functionality-Integration on CMOS, Swarm Electronics for Cyber Physical System	
Professor	MUNEKATA, Hiro	Condensed Matter Physics (experiment), Spintronics, Photonics, Materials Science	
Professor	TSUTSUI, Kazuo	Solid State Electronics	
Professor	UENOHARA, Hiroyuki	Optical Communications, Photonic Switching, Photonic Integration, Optical Signal Processing	
Professor	WAKABAYASHI, Hitoshi	Semiconductor Devices, Nano-electronics, LSI	
Visiting Professor	ISHIBASHI, Koji	Nanofabrication, Quantum Nanodevices	
Visiting Professor	KATOH, Takashi	Organic Electro Photo-functionality Materials	
Associate Professor	IINO, Hiroaki	Organic Electronics, TFT, Imaging Devices	
Associate Professor	ITO, Haruhiko	Opto-Quantum Electronics	
Associate Professor	ITO, Hiroyuki	RF Integrated Circuits for Communication, Hardware Technologies for Cyber Physical System	
Associate Professor	KAKUSHIMA, Kuniyuki	Nanoelectronics and MEMS	
Associate Professor	MIYAMOTO, Tomoyuki	Semiconductor Opto-electronic Devices	
Associate Professor	OHMI, Shun-ichiro	Semiconductor Devices	
Associate Professor	SUGAHARA, Satoshi	Semiconductor Physics and Materials, Magnetism, Spintronics	
Associate Professor	WATANABE, Masahiro	Quantum Photonic Devices, Hetero-epitaxial Engineering	

(33) Dept. of Mechano-Micro Engineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	OMATA, Toru	Robotics, Medical Systems	
Professor	SHINNO, Hidenori	Ultraprecision Machining, Machine Tools	
Professor	SHINSHI, Tadahiko	Mechanical Systems, Magnetic MEMS, Artificial Heart	
Professor	HATSUZAWA , Takeshi	Bio-MEMS/NEMS	
Professor	HORIE, Mikio	Polymer Robots, Micromachines, MEMS/MOEMS, Micromotionsystems	
Associate Professor	SATO, Kaiji	Precision Mechatronics, Control Engineering, Microsystems	
Associate Professor	MATSUMURA, Shigeki	Vibration Measurement and Analysis	
Professor	YOSHIDA, Kazuhiro	Fluid Micromachines	
Associate Professor	YANAGIDA, Yasuko	Bioengineering	
Associate Professor	TADANO, Kotaro	Medical Robots, Man-Machine System	
Associate Professor	SATO, Chiaki	Adhesion technology, Composite materials	
Associate Professor	TAKAYAMA, Toshio	Medical tool, Mobile robot, Robotics	
Associate Professor	KIM, Joon-wan	MEMS, Micro Mechatronics, Bio Mechatronics	
Associate Professor	*YOSHIOKA, Hayato	Ultraprecision machine tool	

*indicates person who belongs to other department.

(34) Dept. of Computational Intelligence and Systems Science

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	TERANO, Takao	Agent-Based Social System Science, Computational Organization Theory, Service Science	
Professor	NITTA, Katsumi	Artificial Intelligence, Human Computer Interaction	
Professor	KONAGAYA, Akihiko	Biomedical Informatics, Knowledge Science, Inverse Problem Solving, Molecular Robotics	
Professor	DEGUCHI, Hiroshi	Evolutionary Economics, Agent-Based Modeling & Simulation, Service System	
Professor	WATANABE, Sumio	Statistical Learning Theory, Mathematical Physics	
Professor	KABASHIMA, Yoshiyuki	Statistical Mechanics, Information Theory	
Professor	MIYAKE, Yoshihiro	Co-creation System, Human Communication, Cognitive Science, Self-Organization, Human Interface	

Professor	NAKAMURA, Kiyohiko	Brain Science, Computational Neuroscience
Professor	YAMAMURA, Masayuki	DNA Computing, Natural Computing, Systems Biology
Professor	NAKAMOTO, Takamichi	Human interface, Olfactory display, Odor sensing system, Sensor information processing
Associate Professor	MUROFUSHI, Toshiaki	Set Functions, Piecewise Linear Functions, Information Visualization, Formal Concept Analysis
Associate Professor	ISHII, Hideaki	Systems and Control, Control Over Networks
Associate Professor	DONG, Fangyan	Computational Intelligence, Combinatorial Optimization
Associate Professor	TAKAYASU, Misako	Statistical Physics, Econophysics, Complex Networks
Associate Professor	AONISHI, Toru	Computational Neuroscience, Statistical Mechanics
Associate Professor	TAKINOUE, Masahiro	Biophysics, Nonlinear nonequilibrium science, Microfluidics, Artificial Cell, Molecular Robotics
Associate Professor	ONO, Isao	Evolutionary Computation, Optimization
Associate Professor	MIYASHITA, Eizo	Systems Neuroscience
Associate Professor	KIGA, Daisuke	Synthetic Biology, Genetic Code, DNA Computing
Associate Professor	TAKAMURA, Hiroya	Natural Language Processing, Computational Linguistics
Associate Professor	HASEGAWA, Shoichi	Virtual Reality, Human Interface, Dynamic Simulation, Haptics, Entertainment Computing
Associate Professor	HASEGAWA, Osamu	Pattern based Artificial Intelligence, Artificial Brain (SOINN), Cognitive Robotics

(35) Dept. of Information Processing

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	KOBAYASHI, Takao	Speech Signal Processing, Human-Computer Interaction, Digital Signal processing	
Professor	OHYAMA, Nagaaki	Optical Information Processing, Medical Image Engineering, Imaging Systems	
Professor	KUMAZAWA, Itsuo	Neural Networks, Cognitive Science, Image Processing, Image Encoding, Pattern Recognition, User Interfaces	
Professor	OKUMURA, Manabu	Natural Language Processing, Text Summarization, Text Mining, Sentiment Analysis	
Professor	ITOH, Toshiya	Complexity Theory, Approximation Algorithms, Online Algorithms	
Professor	KOIKE, Yasuharu	Human Interface, Computational Neuroscience	
Associate Professor	YOSHIMURA, Natsue	Human Interface, Computational Neuroscience	
Visiting Professor	KASHINO, Makio	Auditory Information Processing, Cognitive Brain Science, Psychophysics	

Associate	OBI, Takashi	Image Reconstruction, Information Security, Social	
Professor Associate		Information System Speech Recognition, Speech Signal Processing, Machine	
Professor	SHINOZAKI, Takahiro	Learning	
Associate Professor	SUGINO, Nobuhiko	Code Optimization Methods for VLIWs and GPGPU, Automatic Parallelizing Compilers, Implementation Techniques of Digital Signal Processing	
Associate Professor	KUROSAWA, Minoru	Electro-mechanical Transducer, Actuators and Sensors, Mechatronics	
Associate Professor	KANEKO, Hirohiko	Visual Information Processing, Human Space Perception, Sensory and Motor Measurements	
Professor	YAMAGUCHI, Masahiro	Optical Imaging and Display Color Imaging, Holography	
Professor	NAKAMURA, Kentaro	Optical Sensing, Applied Acoustic Devices	
Associate Professor	TABARU, Marie	Acoustic and Optical Instrumentation, Biomedical Measurement	
Visiting		Computer Vision, Computer Graphics, Image-Based	
Associate Professor	SATO, Imari	Modeling and Rendering	
Visiting Associate Professor	WATANABE, Junji	Cognitive Psychology, Media Technology	

Graduate School of Information Science and Engineering (36)Dept. of Mathematical and Computing Sciences

ACADEMIC ADVISOR		RESEARCH FIELD	REMARKS
Professor	KOJIMA, Sadayoshi	Topology, Experimental Mathematics	
Professor	MASUHARA, Hidehiko	Programming Languages, Software Development Environment	
Professor	*MATSUOKA, Satoshi	High-Performance Computing, Grid Computing	GSIC
Professor	MIYOSHI, Naoto	Applied Probability, Stochastic Models	
Professor	NISHIBATA, Shinya	Theory of Partial Differential Equations	
Professor	UMEHARA, Masaaki	Differential Geometry	
Professor	WATANABE, Osamu	Theory of Computing, Algorithms	
Associate Professor	*ENDO, Toshio	High-Performance Computing, Parallel Software	GSIC
Associate Professor	FUKUDA, Mituhiro	Mathematical Optimization, Continuous Optimization	
Associate Professor	KASHIMA, Ryo	Mathematical Logic, Non-Classical Logics	
Associate Professor	MIURA, Hideyuki	Theory of Partial Differential Equations	

Associate Professor	SHUDO, Kazuyuki	Distributed Systems	
Associate Professor	SUZUKI, Taiji	Statistics, Machine Learning	
Associate Professor	TANAKA, Keisuke	Theory of Cryptography, Theory of Computation	
Associate Professor	TERASHIMA, Yuji	Differential Topology, Mathematical Physics, Arithmetic Topology	
Associate Professor	WAKITA, Ken	Social Network Analysis, Information Visualization, Programming Languages	
Associate Professor	YAMASHITA, Makoto	Mathematical Optimization, Continuous Optimization	

(37a) Dept. of Mechanical and Environmental Informatics (Mechano-Informatics Group)

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	AMAYA, Kenji	Inverse Problems, Computational Mechanics, Electrochemical Analysis, Optical Analysis	
Professor	IMURA, Jun-ichi	Robot Intelligent Control, Control Theory Hybrid Systems Theory	
Professor	KIMURA, Koji	Vibration, Stochastic Dynamics, Nonlinear Dynamics	*
Professor	NAKASHIMA, Motomu	Sports Engineering, Biomechanics, Biorobotics, Musculoskeletal Analysis, Welfare Engineering	
Professor	SASAJIMA, Kazuyuki	Precision Instrumentation, Surface Integrity	
Associate Professor	HARA, Seiichiro	Surface Metrology, Measurement Information Processing	
Associate Professor	HAYAKAWA, Tomohisa	Control Theory, Dynamical Systems Theory	
Associate Professor	MIYAZAKI, Yusuke	Biomechanics, Injury Preventive Engineering, Digital Human Modeling	
Associate Professor	NAKAO, Hiroya	Nonlinear Dynamics, Stochastic Processes, Self-organization Phenomena	
Associate Professor	YAGI, Tohru	Neural Engineering, Human Interface, Vision	

*contact the department

(37b) Dept. of Mechanical and Environmental Informatics (Environmental Informatics Group)

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	NADAOKA, Kazuo	Coastal Ecosystem Conservation Studies, Integrated Coastal Zone Management, Coastal Oceanography and Engineering	
Professor	HIROSE, Sohichi	Applied Mechanics Nondestructive Evaluation	
Professor	OSARAGI, Toshihiro	Spatial Analysis and Planning Spatial Information Science	
Professor	HIGUCHI, Yoichiro	Socio-Economic Interactions Econometrics	

Associate Professor	MIKAMI, Takamasa	Performance Evaluation of Building Elements Safety Evaluation of Residential Environment	
Associate	SOSHIRODA, Akira	Tourism Planning	
Professor	SOSHIKODA, AKIra	Development Process of Resorts	
Associate	TACLAS I.	Environmental Engineering	
Professor	KAGI, Naoki	Air Quality	
Associate	MATCHELLITA Walter	Statistics	
Professor	MATSUSHITA, Yukitoshi	Econometrics	
Loctumon	NAKAMURA, Takashi	Coastal Ecosystem Modeling	
Lecturer		Biogeochemistry	

Graduate School of Decision Science and Technology (38) Dept. of Value and Decision Science

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	INOHARA, Takehiro	Social Modeling, Decision Making	
Professor	SAKANO, Tatsuro	Organizational Design, Planning Theory, Public Management	
Professor	GOTO, Mika	Economics, Organization Efficiency Evaluation, Energy Industry Study	
Professor	IKEGAMI, Masako	Security Studies, Peace & Conflict Research, Science & Technology Policy & Decision-making Analysis, Arms Control & Disarmament	
Professor	*UEDA, Noriyuki	Cultural Anthropology	
Professor	*LIU, An Wei	Studies of Cultural Exchanges between Japan and China, Comparative Literature	
Professor	*DEGUCHI, Hiroshi	Evolutionary Economics, Agent-Based Modeling	
Professor	*NITTA, Katsumi	Artificial Intelligence, Argumentation Support Systems	
Associate Professor	KANEKO, Hironao	Legal Studies (esp. Civil Procedure Law, IT Law)	
Associate Professor	NAKAMARU, Mayuko	Social Simulation, Mathematical Modeling, Human Behavior and Evolution	
Associate Professor	TANIGUCHI, Naoko	Statistics, Political Science	
Associate Professor	*ITO, Asa	Aesthetics, Contemporary Art	
Associate Professor	*EGAWA, Midori	Organizational Behavior, Mental Health, Innovative Sustainable Society	
Associate Professor	*ZHAN, Xiaomei	Chinese and Japanese Art History, Japanese Studies	

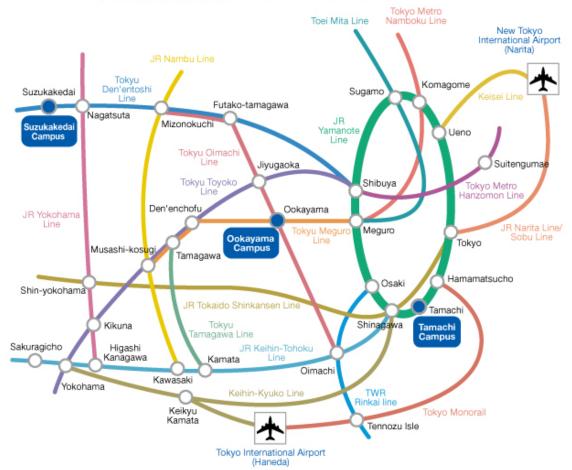
*indicates a person who belongs to another department.

(39) Dept. of Social Engineering

	ACADEMIC ADVISOR	RESEARCH FIELD	REMARKS
Professor	*HIGUCHI, Yoichiro	Socio-Economic Networks, Econometrics	
Professor	MATSUI, Tomomi	Optimization Theory, Combinatorics, Operations Research	
Professor	NAKAI, Norihiro	Urban Planning, Urban Policy, Urban Design	
Professor	SAITO, Ushio	Landscape Planning and Design	
Professor	YAMAMURO, Kyoko	History of Japan	
Professor	YAMATO, Takehiko	Economic Theory, Experimental Economics	
Associate Professor	DOHI, Masato	Community Planning and Design	
Associate Professor	KAWASAKI, Ryo	Mathematical Economics, Game Theory	
Associate Professor	MANO, Yosuke	Urban Planning	
Professor	MASUI, Toshihiko	Environmental Economic Modeling	
Associate Professor	KANAMORI, Yuko	Environmental Economic Modeling	
Associate Professor	OHDOI, Ryoji	Dynamic Macroeconomics	
Associate Professor	SHIOURA, Akiyoshi	Discrete Optimization, Operations Research, Design and Analysis of Mathematical Systems	
Associate Professor	*SOSHIRODA, Akira	Regional Planning, Resort and Tourism Planning	
Associate Professor	*MATSUSHITA, Yukitoshi	Statistics, Econometrics	

*indicates person who belongs to other department

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



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Inquiries Office:
Admission Division, Student Service Department
Tokyo Institute of Technology
2-12-1-W8-103 Ookayama, Meguro-ku, Tokyo 152-8550
Japan
Tel. 03-5734-3990
Email : ryugakusei@jim.titech.ac.jp
Office Hours 9:00 to 17:15 (except for 12:15 to 13:15).
Website http://www.titech.ac.jp/english/
Latest information for applicants http://www.titech.ac.jp/english/graduate_school/