

List of Faculties
Tokyo Institute of Technology International Graduate Program (B)
Commencing in September 2019 (Overseas Application)

School of Science

(1)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, Teruaki	Cosmology, gravitational waves (Theory)		Physics
Associate Professor	KAWAMURA, Toru	Plasma Physics, Atomic Processes in Plasmas, Plasma X-ray Spectroscopy		Physics

(2)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

(3)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	MATUNAGA, Saburo	Space Systems Engineering, Small Satellite Systems, Space Robotics		• 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		• Mechanical Engineering • Energy Science and Engineering

Professor	OKUMA, Masaaki	Structural Dynamics, Acoustics, Optimum Design, CAE		<ul style="list-style-type: none"> • Mechanical Engineering • Engineering Sciences and Design
Professor	OKUNO, Yoshihiro	Physics and Application of Magneto hydrodynamics, MHD Power Generation, Plasma Science and Engineering		<ul style="list-style-type: none"> • Energy Science and Engineering • Mechanical Engineering
Professor	OMATA, Toru	Robotics, Medical Systems		<ul style="list-style-type: none"> • Human Centered Science and Biomedical Engineering • Mechanical Engineering
Professor	SAITO, Shigeki	Micromechanics, Micro Robotics, Engineering Design		<ul style="list-style-type: none"> • Engineering Sciences and Design • Mechanical Engineering
Professor	SHINSHI, Tadahiko	Mechanical Systems, Magnetic MEMS, Artificial Heart		<ul style="list-style-type: none"> • Mechanical Engineering • Human Centered Science and Biomedical Engineering
Professor	SUEKANE, Tetsuya	CO2 Geological Storage, Enhanced Oil Recovery, Transport in Porous Media		<ul style="list-style-type: none"> • Energy Science and Engineering • Mechanical Engineering
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"> • Mechanical Engineering • Engineering Sciences and Design
Professor	TANAHASHI, Mamoru	Fluid Dynamics, Heat and Mass Transfer, Combustion		<ul style="list-style-type: none"> • Energy Science and Engineering • Mechanical Engineering
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"> • Mechanical Engineering • Energy Science and Engineering
Professor	YAMAURA, Hiroshi	Mechatronics, Dynamics, Control		Mechanical Engineering
Professor	YANAGIDA, Yasuko	Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering		<ul style="list-style-type: none"> • Human Centered Science and Biomedical Engineering • Mechanical Engineering
Professor	YOSHIDA, Kazuhiro	Fluid Power Micromachines, Microactuators, Functional Fluid Application		<ul style="list-style-type: none"> • Engineering Sciences and Design • Mechanical Engineering • Energy Science and Engineering
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"> • Mechanical Engineering • Engineering Sciences and Design
Associate Professor	AONO, Yuko	Functional Surface and Thin Film, Laser Processing		• Mechanical Engineering
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"> • Mechanical Engineering • Engineering Sciences and Design
Associate Professor	FUSHINOBU, Kazuyoshi	Energy Phenomena, Thermal Engineering		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"> • Mechanical Engineering • Energy Science and Engineering
Associate Professor	HIJIKATA, Wataru	Mechatronics, Medical Device, Wireless Power Transmission		<ul style="list-style-type: none"> • Engineering Sciences and Design • Mechanical Engineering
Associate Professor	INABA, Kazuaki	Continuum Mechanics		<ul style="list-style-type: none"> • Engineering Sciences and Design • Mechanical Engineering
Associate Professor	ISHIDA, Tadashi	Biomedical MEMS, Nanobiology		<ul style="list-style-type: none"> • 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	KONDO, Masatoshi	Fusion reactor, Fast reactor, Material compatibility, Liquid metal technology		Nuclear 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	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	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, Tomohisa	Production engineering, Manufacturing, Tribology		Mechanical Engineering
Associate Professor	YAGI, Tohru	Neural Engineering, Human Interface, Vision		• Human Centered Science and Biomedical Engineering • Engineering Sciences and Design • Mechanical Engineering
Associate Professor	YAMAMOTO, Takatoki	Bionanotechnology, Micro TAS		• Mechanical Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	YAMAZAKI, Takahisa	Materials for Space Use, Advanced Joining and Surface Coating		• Mechanical Engineering • Engineering Sciences and Design
Associate Professor	YOSHIDA, Takako	Applied Brain Science		• Mechanical Engineering • Human Centered Science and Biomedical Engineering

Associate Professor	YOSHIOKA, Hayato	Ultraprecision Mechanical System		<ul style="list-style-type: none"> • Mechanical Engineering • Engineering Sciences and Design
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☆ indicates person who will retire in March, 2021.

(4)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
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"> • Systems and Control Engineering • Engineering Sciences and Design
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"> • Systems and Control Engineering • Engineering Sciences and Design
Professor	TAKAYASU, Misako	Statistical Physics, Econophysics, Complex Networks		Systems and Control Engineering
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
Visiting Associate Professor	**HATANAKA, Takeshi	Control of network systems		Systems and Control Engineering
Associate Professor	HAYAKAWA, Tomohisa	Control Theory, Dynamical Systems Theory, Smart Society		Systems and Control Engineering
Associate Professor	ISHII, Hideaki	Systems and Control, Control Over Networks		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
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	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 Prof. Daisuke Kurabayashi, the chair of the department, in advance.

** indicates person whose office is currently located at Osaka University. Please make contact with Prof. Daisuke Kurabayashi, the chair of the department, in advance.

*** indicates person whose office is currently located at the National Institute of Advanced Industrial Science and Technology (AIST). Please make contact with Prof. Daisuke Kurabayashi, the chair of the department, in advance.

(5)Dept. of Electrical and Electronic Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	ASADA, Masahiro	Semiconductor Nano-Devices, High-Speed Devices, Terahertz Devices		Electrical and Electronic Engineering
Professor	CHIBA, Akira	Electric Machine, Magnetic Suspension		* 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, 2020.

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

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

(6)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	Doctoral program only	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, Machine Learning, Optimization, 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	○ KASHINO, Makio	Cognitive Neuroscience, Hearing, Autism, Sports		Information and Communications Engineering
Specially Appointed Professor	○ SATO, 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 Information 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
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○ indicates the person who can only be an academic co-supervisor.

(7)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

(8)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	INAMURA, Tomonari	Shape Memory Alloy, Crystallography of Phase Transformation		• Materials Science and Engineering • Energy Science and Engineering
Professor	*ITOH, 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	KIMURA, Yoshisato	Heat Resistant Alloys and Thermoelectric Materials Design based on Phase Equilibria and Microstructure		• Energy Science and Engineering • Materials Science and Engineering
Professor	KITAMOTO, Yoshitaka	Nanoparticles, Magnetic Materials and Devices, Biomedical Devices, Biosensors		• Human Centered Science and Biomedical Engineering • Materials Science and Engineering
Professor	KOBAYASHI, Yoshinao	Metal Refining and Recycling, Safety Metallurgy for Nuclear Reactors, Phase Stability, Degradation of Materials in Reactors, Waste Management		• 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	MATSUSHITA, Nobuhiro	Novel Processes for Electronic, Energy and Biomedical Materials		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		• Human Centered Science and Biomedical Engineering • Materials Science and 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	SAKATA, Osami	Materials Analysis using Synchrotron Radiation, Functional Thin Films, Surfaces, Nano-particles		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	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	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, 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	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

Specially Appointed Associate Professor	DAS, Hena	Theoretical Materials Science and Condensed Matter Physics		• Materials Science and Engineering
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* indicates person who will retire in March, 2020.

(9)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, π -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	Catalysis, Electrocatalysis, Oxidation		• 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	π -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	KONISHI, Gen-ichi	Polymer Synthesis, Photochemistry		Chemical Science and Engineering
Associate Professor	MATSUMOTO, Hideyuki	Process Systems Engineering, Process Intensification, Intelligent Systems		• Chemical Science and Engineering • Energy 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
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	YOSHIKAWA, 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	Porous Materials, Heterogeneous Catalysis		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
Associate Professor	SHOJI, Yoshiaki	Functional π -Conjugated Molecules and Polymers, Highly Reactive Main-Group Species		Chemical Science and Engineering

☆ indicates person who will retire in March, 2021.

School of Computing

(10)Dept. of Mathematical and Computing Science

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
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	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
Assistant Professor	MORI, Ryuhei	Quantum Information, Information Theory, Theoretical Computer Science		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	NUKADA, Akira	Supercomputing	GSIC	Mathematical and Computing Science
Associate Professor	SHUDO, Kazuyuki	Distributed Systems		Mathematical and Computing Science
Associate Professor	SUZUKI, Sakie	Knot Theory, Quantum Topology		Mathematical and Computing Science
Professor	TAKAYASU, Misako	Statistical Physics, Econophysics, Complex Networks	IIR	Mathematical and Computing Science, Artificial Intelligence
Professor	TANAKA, Keisuke	Cryptocurrency, Blockchain Technology, Cybersecurity, Theory of Cryptography		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, Sumio	Statistical Learning Theory, Mathematical Physics		Mathematical and Computing Science
Associate Professor	YAMASHITA, Makoto	Mathematical Optimization, Continuous Optimization		Mathematical and Computing Science

(11)Dept. of Computer Science

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	AKIYAMA, Yutaka	Bioinformatics		· Artificial Intelligence · Computer Science
Professor	DEFAGO, Xavier	Distributed Algorithms, Dependable Systems, Cooperative Mobile Robots		· Computer Science · Artificial Intelligence
Professor	DEGUCHI, Hiroshi	Evolutionary Economics, Agent-Based Modeling & Simulation, Service System	Master's program only	· Artificial Intelligence · Computer Science
Professor	GONDOW, Katsuhiko	Software Development Environments		· Computer Science · Artificial Intelligence
Professor	KOIKE, Hideki	Human-Computer Interaction, Graphics & Vision		· Computer Science · Artificial Intelligence
Professor	MIYAKE, Yoshihiro	Co-creation System, Communication Science, Self-Organization, Human Interface (VR/AR), Human-Robot Interaction		· Artificial Intelligence · Computer Science
Professor	MIYAZAKI, Jun	Large Scale Computing, Information Retrieval/Recommendation		· Computer Science · Artificial Intelligence
Professor	NISHIZAKI, Shinya	Semantics of Programming Languages, Software Science		· Computer Science · Artificial Intelligence
Professor	OKAZAKI, Naoaki	Natural Language Processing, Artificial Intelligence, Deep Learning, Social Media Analytics		· Artificial Intelligence · Computer Science
Professor	SAEKI, Motoshi	Software Engineering	Master's program only	· Computer Science · Artificial Intelligence

Professor	SHINODA, Koichi	Statistical Pattern Recognition, Audio and Video Scene Understanding		· Artificial Intelligence · Computer Science
Professor	TOKUNAGA, Takenobu	Natural Language Processing, Computational Linguistics		· Artificial Intelligence · Computer Science
Professor	WATANABE, Takuo	Reflection and Metaprogramming, Concurrency, Programming Languages, Formal Methods		· Computer Science · Artificial Intelligence
Professor	YAMAMURA, Masayuki	DNA Computing, Natural Computing, Systems Biology		· Artificial Intelligence · Computer Science
Professor	YOKOTA, Haruo	Data Engineering, Dependable Systems		· Computer Science · Artificial Intelligence
Professor	FUJITA, Masayuki	Systems and Control		· Systems and Control Engineering · Computer Science
Professor	IMURA, Jun-ichi	Robot Intelligent Control, Control Theory Hybrid Systems Theory		· Systems and Control Engineering · Computer Science
Professor	TAKAYASU, Misako	Statistical Physics, Econophysics, Complex Networks		· Mathematical and Computing Science · Artificial Intelligence
Specially Apointed Professor	INOUE, Katsumi	Artificial Intelligence, Machine Learning, Logic Programming	Master's program only	· Artificial Intelligence · Computer Science
Associate Professor	AONISHI, Toru	Computational Neuroscience, Statistical Mechanics		· Artificial Intelligence · Computer Science
Associate Professor	FUJII, Atsushi	Natural Language Processing, Information Retrieval, Web Mining		· Artificial Intelligence · Computer Science
Associate Professor	HAYASHI, Shinpei	Software engineering		- Computer Science - Artificial Intelligence
Associate Professor	ISHIDA, Takashi	Data Mining, Bioinformatics		· Artificial Intelligence · Computer Science
Associate Professor	ISHII, Hideaki	Systems and Control, Control Over Networks		· Artificial Intelligence · Computer Science
Associate Professor	KANEKO, Haruhiko	Dependable System, Joint Coding Theory		· Computer Science · Artificial Intelligence
Associate Professor	KISE, Kenji	Computer Architecture		· Computer Science · Artificial Intelligence
Associate Professor	KOBAYASHI, Takashi	Software Engineering		· Computer Science · Artificial Intelligence
Associate Professor	MURATA, Tsuyoshi	Artificial Intelligence, Web Mining, Link Mining, Social Network Analysis		· Artificial Intelligence · Computer Science
Associate Professor	ONO, Isao	Evolutionary Computation, Optimization		· Artificial Intelligence · Computer Science
Associate Professor	SAITO, Suguru	Computer Graphics, Image Processing		· Artificial Intelligence · Computer Science
Associate Professor	SEKIJIMA, Masakazu	Bioinformatics, Chemoinformatics, Supercomputing		· Artificial Intelligence · Computer Science
Associate Professor	SHIMOSAKA, Masamichi	Machine Intelligence, Machine learning, Pattern recognition, Crowd Sensing, Ubiquitous Computing		· Artificial Intelligence · Computer Science
Associate Professor	TAKINOUE, Masahiro	Biophysics, Nonlinear Nonequilibrium Science, Microfluidics, Artificial Cell, Molecular Robotics		· Artificial Intelligence · Computer Science
Associate Professor	YOKOTA, Rio	High Performance Computing, Large-scale Parallel Computing, N-Body Algorithms, Fluid Simulation, Molecular Simulation		· Computer Science · Artificial Intelligence
Assistant Professor	ITOH, Yuta	Augmented Reality, Virtual Reality, Augmented Human, Head-Mounted Display, Vision Augmentation	Master's program only	· Artificial Intelligence · Computer 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	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	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		<ul style="list-style-type: none"> • Human Centered Science and Biomedical Engineering • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	YUASA, Hideya	Bioorganic Chemistry		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	ISHIUCHI, Shun-ichi	Laser Spectroscopy, Mass Spectrometry		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • 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	KITAGUCHI, Tetsuya	Bioimaging, Protein Engineering, Biosensors		<ul style="list-style-type: none"> • Human Centered Science and Biomedical Engineering • 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
Professor	YANAGIDA, Yasuko	Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering		Human Centered Science and Biomedical Engineering
Associate Professor	YATSUNAMI, Rie	Metabolic Engineering, Protein Engineering and Genetic Engineering		Life Science and Technology
Assistant Professor	KADONOSONO, Tetsuya	Medical Protein Engineering		• Human Centered Science and Biomedical 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	MATSUOKA, Masashi	Remote Sensing and Geoinformatics for Disaster Management		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	Earthquake Engineering 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	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	NISHIMURA, Koshiro	Concrete Structures Earthquake Engineering		* Architecture and Building Engineering * Urban Design and Built Environment
Associate Professor	OKAZE, Tsubasa	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, Taishin	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 Development Studies, Logistics, Air Transport		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	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"> • Civil Engineering • Engineering Sciences and Design
Associate Professor	YOSHIMURA, Chihiro	Water Quality Engineering, Aquatic Ecology, Biogeochemistry		Civil Engineering

☆ indicates person who will retire in March, 2021.

(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"> • Energy Science and Engineering • Global Engineering for Development, Environment and Society • Materials Science and Engineering
Professor	HANAOKA, Shinya	Transport Development Studies, Logistics, Air Transport		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	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"> • Global Engineering for Development Environment and Society • Engineering Sciences and Design
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"> • Engineering Sciences and Design • Global Engineering for Development, Environment and Society
Professor	TAKADA, Jun-ichi	Wireless Communications, Electromagnetic Wave Theory and Application, ICT and Development		<ul style="list-style-type: none"> • Global Engineering for Development, Environment and Society • Engineering Sciences and Design
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"> • Nuclear Engineering • Global Engineering for Development, Environment and Society
Professor	YAMAGUCHI, Shinobu	Education and IT, International Development and Cooperation, Sustainable Development of World Cultural Heritage		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"> ▪ Global Engineering for Development, Environment and Society ▪ Energy Science and Engineering
Associate Professor	INABA, Kazuaki	Mechanical Engineering, Solid and Structure Engineering, Engineering Design		<ul style="list-style-type: none"> ▪ Engineering Sciences and Design ▪ Mechanical Engineering
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"> ▪ Global Engineering for Development, Environment and Society ▪ Energy Science and Engineering
Associate Professor	TSUTSUI, Hiroaki	Plasma Physics and Nuclear Fusion, Superconducting Magnetic Energy Storage System		Nuclear Engineering
Associate Professor	YAMASHITA, Yukihiko	Computer Science, Intelligent Informatics		Global Engineering for Development, Environment and Society