

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

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 SATOH, Takuya	Ultrafast dynamics, optical condensed matter physics		Physics
Professor YAMAGUCHI, Masahide	Cosmology, particle physics, gravitation (Theory)		Physics
Specially Appointed Professor HIGEMOTO, Wataru	Strongly correlated electron systems, Muon science	JAEA	Physics
Visiting Professor DOTANI, Tadayasu	X-ray Astronomy (Experiment)	JAXA	Physics
Visiting 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 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 YATSU, Yoichi	Astrophysics (Experiment)		Physics
Associate Professor (Lecturer) KAWAMURA, Toru	Plasma Physics, Atomic Processes in Plasmas		Physics

School of Engineering

(2) 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	Not accepted students for Integrated Doctoral Education Program	Mechanical Engineering Energy Science and Engineering
Professor HANAMURA, Katsunori	Environmental Thermal Engineering	Not accepted students for Integrated Doctoral Education Program	Energy Science and Engineering Mechanical Engineering
Professor HATSUZAWA, Takeshi	Bio-MEMS/NEMS	Not accepted students for Integrated Doctoral Education Program	Human Centered Science and Biomedical Engineering Mechanical Engineering
Professor HIRAI, Shuichiro	Global Environment Engineering	Not accepted students for Integrated Doctoral Education Program	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	Not accepted students for Integrated Doctoral Education Program	Mechanical Engineering Energy Science and Engineering
Professor	IWATSUKI, Nobuyuki	Human Friendly Systems, Silent Engineering	Not accepted students for Integrated Doctoral Education Program	Mechanical Engineering Engineering Sciences and Design
Professor	MATUNAGA, Saburo	Space Systems Engineering, Micro/Nano Satellite Systems, Smart Space Technology		Mechanical Engineering
Professor	NISHIDA, Yoshifumi	Living Centric Design, Living Function Support, Artificial Intelligence, IoT		Engineering Sciences and Design Mechanical Engineering
Professor	NOZAKI, Tomohiro	Plasma Chemistry, 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	Not accepted students for Integrated Doctoral Education Program	Mechanical Engineering Energy Science and Engineering
Professor	OKUNO, Yoshihiro	Physics and Application of Magnetohydrodynamics, MHD Power Generation, Plasma Science and Engineering	Not accepted students for Integrated Doctoral Education Program	Energy Science and Engineering Mechanical Engineering
Professor	OMATA, Toru	Medical Robotics, Bio-Medical Microfluidic Systems, Robotics and Mechatronics	Not accepted students for Integrated Doctoral Education Program	Human Centered Science and Biomedical Engineering Mechanical Engineering
Professor	SAITO, Shigeki	Micromechanics, Micro Robotics, Engineering Design		Engineering Sciences and Design
Professor	SATO, Chiaki	Adhesion Technology, Composite Materials		Mechanical Engineering Engineering Sciences and Design
Professor	SHINSHI, Tadahiko	Mechanical Systems, Magnetic MEMS, Artificial Heart		Mechanical Engineering Human Centered Science and Biomedical Engineering
Professor	SUEKANE, Tetsuya	CO2 Geological Storage, Enhanced Oil Recovery, Transport in Porous Media		Energy Science and Engineering Mechanical Engineering
Professor	SUZUMORI, Koichi	Robotics, Soft Robotics, Actuator	Not accepted students for Integrated Doctoral Education Program	Mechanical Engineering
Professor	TAKAHARA, Hiroki	Structural Dynamics	Not accepted students for Integrated Doctoral Education Program	Mechanical Engineering
Professor	TAKEDA, Yukio	Mechanical Systems Design		Mechanical Engineering Engineering Sciences and Design
Professor	TANAHASHI, Mamoru	Fluid Dynamics, Heat and Mass Transfer, Combustion		Energy Science and Engineering Mechanical Engineering
Professor	TODOROKI, Akira	Solids and Structures Engineering		Mechanical Engineering
Professor	XIAO, Feng	Computational fluid dynamics, Numerical analysis, Integrated system of data, deterministic and statistical models		Mechanical Engineering Energy Science and Engineering
Professor	YAMAURA, Hiroshi	Mechatronics, Dynamics, Control		Mechanical Engineering
Professor	YANAGIDA, Yasuko	Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering		Human Centered Science and Biomedical Engineering Mechanical Engineering
Professor	YOSHIDA, Kazuhiro	Fluid Power Micromachines, Microactuators, Functional Fluid Application		Engineering Sciences and Design Mechanical Engineering
Professor	YOSHINO, Masahiko	Nano/micro Manufacturing, Metalforming, Machining	Not accepted students for Integrated Doctoral Education Program	Mechanical Engineering
Specialy Appointed Professor	KADONAGA, Masami	Digital printing, Inkjet printing, Electrophotography		Mechanical Engineering
Specialy Appointed Professor	KOBAYASHI, Tsune	[Mechanical Element] Analysis and Design of Mechanical Elements, Mechanisms for Automobiles		Mechanical Engineering Engineering Sciences and Design

Associate Professor	AKASAKA, Hiroki	Synthesis and Evaluation of Inorganic Carbon Materials		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	Accepted Students only for Master's Program	Mechanical Engineering Engineering Sciences and Design
Associate Professor	FUSHINOBU, Kazuyoshi	Thermal Engineering (Laser, Electronic Packaging, Digital Printing, Energy Equipment)		Mechanical Engineering
Associate Professor	HASEGAWA, Jun	Plasma Science and Technology, Ion Beam Application Studies, Inertial Fusion Studies, High Energy Density Science, Radiation Physics		Mechanical Engineering Energy Science and Engineering
Associate Professor	HUIKATA, Wataru	Mechatronics, Medical Device, Wireless Power Transmission		Engineering Sciences and Design Mechanical Engineering
Associate Professor	INABA, Kazuaki	Continuum Mechanics		Mechanical Engineering Engineering Sciences and Design
Associate Professor	ISHIDA, Tadashi	Biomedical MEMS, Nanobiology		Human Centered Science and Biomedical Engineering Mechanical Engineering
Associate Professor	KIKURA, Hiroshige	Nuclear Reactor Safety, Process Control and Measurement System, Thermal Hydraulics, Safe Transport of Radioactive Material		Nuclear Engineering
Associate Professor	KIM, Joon-wan	MEMS, Micro Mechatronics, Bio Mechatronics		Mechanical Engineering Human Centered Science and Biomedical Engineering
Associate Professor	KONDO, Masatoshi	Fusion reactor, Fast reactor, Material compatibility, Liquid metal technology		Nuclear Engineering
Associate Professor	MATSUMURA, Shigeki	Vibration Measurement and Analysis	Accepted Students only for Master's Program	Engineering Sciences and Design Mechanical Engineering
Associate Professor	MIZUTANI, Yoshihiro	Structural Reliability Engineering, Application of Artificial Intelligence		Mechanical Engineering Engineering Sciences and Design
Associate Professor	MURAKAMI, Yoichi	Molecular Energy Mechanics, Thermal Engineering, Functional Materials Development, Light Wavelength Conversion, Flow Thermo-Electric Conversion, Nano-structured Thermal Energy Storage Materials		Mechanical Engineering Energy Science and Engineering
Associate Professor	NAKANISHI Hiroki	Space engineering, Space robotics		Mechanical Engineering
Associate Professor	NAKANO, Yutaka	Vibration Engineering		Mechanical Engineering
Associate Professor	NISHISAKO, Takashi	Nano/micro Fluid, Emulsion, Micro Chemistry, Bio chemistry, MEMS		Mechanical Engineering
Associate Professor	ONISHI, Ryo	Environmental Turbulent Flows, CFD, Machine Learning, Data Assimilation, Micro-Meteorology Forecasting System		Mechanical Engineering
Associate Professor	SAITO, Takushi	Development of Heat Transfer Control using Nanomaterials, Analysis of Transport Phenomena including Interface, Advanced Material Processing Technology using Heat		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	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	TAKAYAMA, Toshio	Robotics & Mechatronics, Mechanism, Soft robot, Medical device, Microfluidic device		Mechanical Engineering
Associate Professor	TANAKA, Hiroto	Biomimetics, Fluid dynamics of animal flight and swimming, Flapping-wing aerial/underwater robots, Micro fabrication		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 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	YOSHIOKA, Hayato	Production Engineering, Ultraprecision Mechanical System		Mechanical Engineering Engineering Sciences and Design
Specially Appointed Associate Professor	ENDO, Mitsuru	Human Collaborative Robot, Light-weight Actuator, Mechatronics		Mechanical Engineering
Specially Appointed Associate Professor	KATO, Koichi	Digital printing, Inkjet printing, Electrophotography		Mechanical Engineering
Specially Appointed Associate Professor	MATSUURA, Daisuke	[Mechanical Element] Analysis and Design of Mechanical Elements, Robotics, Mechatronics, Visual Measurement, Visual Servo, Non-contact Manipulation, Welfare equipment		Mechanical Engineering
Associate Professor (Lecturer)	MIURA, Satoshi	Human-Machine Interface, Brain-Machine Interface, Medical Robotics, Welfare Robotics, Surgical Robotics		Mechanical Engineering
Assistant Professor (Tenure Track)	MINAMOTO, Yuki	Direct numerical simulations of turbulent reacting flows, theoretical and machine-learning based modelling for turbulent flows and other natural and social phenomena.		Energy Science and Engineering

(3) 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	Electrical and Electronic Engineering Energy Science and Engineering
Professor	HATANNO, Mutsuko	Quantum sensors, Power devices, Solid-State Physics and Engineering	Energy Science and Engineering Electrical and Electronic Engineering
Professor	HIROKAWA, Jiro	Millimeter-wave/Terahertz-wave planar antennas, Electromagnetic wave analysis	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 and Polymer Electronics, Organic Devices, Nonlinear Optics	Electrical and Electronic Engineering
Professor	MIYAMOTO, Yasuyuki	Compound Semiconductor Process/Devices	Electrical and Electronic Engineering
Professor	NAKAGAWA, Shigeki	Spintronics, Information Storage Devices, Superconductive Spintronics	Electrical and Electronic Engineering
Professor	NAKAMURA, Kentaro	Optical Sensing, Applied Acoustic Devices	Human Centered Science and Biomedical Engineering Electrical and Electronic Engineering
Professor	NISHIYAMA, Nobuhiko	Photonic Electronic Convergence Circuit., Semiconductor Lasers, Measurement System using Photonic Integrated Circuit	Electrical and Electronic Engineering
Professor	OKADA, Kenichi	Wireless Circuit Design, Analog Circuit Design	Electrical and Electronic Engineering
Professor	SAKAGUCHI, Kei	Wireless communications, 5G, IoT, mmWave, Wireless power transmission, Connected car, Automated driving	Electrical and Electronic Engineering
Professor	TOKUDA, Takashi	Microdevices and circuits for biomedical and IoT	Human Centered Science and Biomedical Engineering Electrical and Electronic Engineering
Professor	UENOHARA, Hiroyuki	Optical Communications, Optical Signal Processing, Photonic Switching, Photonic Integration	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	indicates person who will retire in March, 2021. Electrical and Electronic Engineering Energy Science and Engineering
Specially Appointed Professor	OMOTE, Hideki	5G and 6G cellular system, 5G and 6G mobile radio propagation, International standardization of mobile radio propagation	indicates the person who can only be an academic co-supervisor. Electrical and Electronic Engineering
Associate Professor	AKATSUKA, Hiroshi	Low-Temperature Plasma, Chemistry and Physics	Electrical and Electronic 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	Low Power CMOS Circuits, Internet of Medical Things, IoT in Agriculture		Electrical and Electronic Engineering
Associate Professor	IWASAKI, Takayuki	Diamond Quantum Sensor, Solid-state Quantum Emitter for Quantum Communication, Diamond Device		Electrical and Electronic Engineering Energy Science and Engineering
Associate Professor	KAKUSHIMA, Kuniyuki	Nanoelectronics and MEMS		Electrical and Electronic Engineering
Associate Professor	KAWANO, Yukio	Flexible and Wearable Photonics, Terahertz and Infrared Sensing		Electrical and Electronic Engineering
Associate Professor	KIYOTA, Kyohei	Electric Machines, motor, generator, magnetic suspension		Energy Science and Engineering Electrical and Electronic Engineering
Associate Professor	KODERA, Tetsuo	Quantum computing technology, Quantum Information Devices, Nano quantum electronics		Electrical and Electronic Engineering Energy Science and Engineering
Associate Professor	KUROSAWA, Minoru	Actuators, Audio Engineering, echo location		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	OHMI, Shun-ichiro	Semiconductor Devices		Electrical and Electronic Engineering
Associate Professor	OKINO, Akitoshi	Plasma Engineering		Human Centered Science and Biomedical Engineering Electrical and Electronic Engineering
Associate Professor	PHAM, Nam Hai	Semiconductor/metal spintronics, Ferromagnetic semiconductor, Topological insulator		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	TAKEUCHI, Nozomi	Plasma Engineering, Electrostatics, High Voltage Engineering		Electrical and Electronic Engineering Energy Science and Engineering
Associate Professor	TRAN, Gia Khanh	Gbps-class wireless backbone network, Radio resource management using AI, IoT networks employing drones		Electrical and Electronic Engineering
Associate Professor	WATANABE, Masahiro	Quantum Devices, Hetero-epitaxial Engineering		Electrical and Electronic Engineering
Assistant Professor (Tenure Track)	KAWABE, Kenichi	Power system engineering, Renewable energy sources		Electrical and Electronic Engineering Energy Science and Engineering
Assistant Professor (Tenure Track)	SANO, Kenichiro	Power Electronics, High voltage dc transmission		Electrical and Electronic Engineering Energy Science and Engineering
Assistant Professor (Tenure Track)	TOMURA, Takashi	Satellite onboard antenna, wireless communication, large-scale electromagnetic analysis.		Electrical and Electronic Engineering

(4)Dept. of Information and Communications Engineering

	Academic Supervisor	Research Field	Remarks	Graduate Major
Professor	FUKAWA, Kazuhiko	Wireless Communications, Wireless Communication Networks, Intelligent 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, Eye Movements, Multimodal Sensory Interaction		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	MOTOMURA, Masato	Reconfigurable Hardware, Intelligent Computing, Deep Learning Processor, Annealing Machine		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	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, Spectral Imaging, Pathology Image Analysis, 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
Visiting Professor	SATO, Imari	Computer Vision, Computer Graphics, Image-Based Modeling and Rendering, Machine Learning	indicates the person who can only be an academic co-supervisor.	Information and Communications Engineering
Associate Professor	FUNAKOSHI, Kotaro	Natural Language Processing, Multimodal Dialogue System, Human-Machine Interaction		Information and Communications Engineering
Associate Professor	HARA, Yuko	Hardware/Software Co-design, Low-Energy Embedded Systems, Approximate Computing	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	Jaehoon, YU	Machine Learning, Intelligent Computing, Pattern Recognition, System Architecture		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	Audio Engineering, Acoustic Radiation Force Fluicic Actuator, Echo Location Systems		Information and Communications Engineering
Associate Professor	MATSUMOTO, Ryutarō	Error-correcting code, information theory, quantum information	Doctoral program only	Information and Communications Engineering
Associate Professor	NAGAI, Takehiro	Color Science and Technology, Material Perception Science, Visual Psychophysics		Human Centered Science and Biomedical Engineering Information and Communications Engineering
Associate Professor	NAKAHARA, Hiroki	Reconfigurable Computing, High-Performance Computing, FPGA, Machine Learning		Information and Communications Engineering
Associate Professor	OBI, Takashi	Medical Informatics, Medical Image Processing, Information Security, Secure System		Information and Communications Engineering Human Centered Science and Biomedical Engineering
Associate Professor	SASAKI, Hiroshi	Computer Architecture, Computer Security, Computer Systems, Internet of Things (IoT), Workload Characterization		Information and Communications Engineering
Associate Professor	SHINOZAKI, Takahiro	Speech Understanding, Dialogue System, Reinforcement Learning, Machine Learning		Information and Communications Engineering Human Centered Science and Biomedical 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

(5) 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	MATSUI, Tomomi	Optimization Theory, Combinatorics, Operations Research		Industrial Engineering and Economics
Professor	SENOO, Dai	Knowledge Management, Leadership		Industrial Engineering and Economics Engineering Sciences and Design
Professor	SHIOURA, Akiyoshi	Discrete Optimization, Operations Research, Algorithm Theory		Industrial Engineering and Economics
Professor	UMEMURO, Hiroyuki	Affect and Emotion, Gerontechnology, Human Factors		Industrial Engineering and Economics
Professor	YAMATO, Takehiko	Economic Theory, Experimental Economics		Industrial Engineering and Economics
Visiting Professor	MASUI, Toshihiko	Environmental Economic Modeling	Supporting supervisor	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	GU, Xiuzhu	Operations management, quality management, Industrial Engineering		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	Financial Reporting, Company Analysis, Corporate Governance		Industrial Engineering and Economics
Associate Professor	NAKATA, Kazuhide	Operations Research, Continuous Optimization, Machine Learning		Industrial Engineering and Economics
Associate Professor	OGASAWARA, Kota	Clometrics, Health Economics		Industrial Engineering and Economics
Associate Professor	OHDOI, Ryoji	Dynamic Macroeconomics, Economic Growth		Industrial Engineering and Economics
Associate Professor	SEABORN Katie	Web Informatics, Human-Robot Interaction		Industrial Engineering and Economics
Associate Professor	SUZUKI, Sadami	Production and Operations Management		Industrial Engineering and Economics
Visiting Associate Professor	KANAMORI, Yuko	Environmental Economic Modeling	Supporting supervisor	Industrial Engineering and Economics

School of Materials and Chemical Technology

(6) Dept. of Materials Science and Engineering

Academic Supervisor		Research Field	Remarks	Graduate Major
Professor	FUJII, Toshiyuki	Crystallography of Microstructures		Materials Science and Engineering
Professor	HAYAKAWA, Teruaki	Polymer Synthesis, Polymer Thin Films, Self-Organizing Organic and Polymeric Materials		Materials Science and Engineering
Professor	HOSODA, Hideki	Materials Design, Shape Memory Alloys, Intermetallic Compounds		Materials Science and Engineering Human Centered Science and Biomedical Engineering Energy Science and Engineering
Professor	IKOMA, Toshiyuki	Bioceramics, Biosensing, Nanomedicine, Tissue Engineering		Human Centered Science and Biomedical Engineering Materials Science and Engineering
Professor	INAMURA, Tomonari	Shape Memory Alloy, Crystallography of Phase Transformation		Materials Science and Engineering Energy Science and Engineering
Professor	KAWAJI, Hitoshi	Physical Chemistry of Materials, Phase Transition		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	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	MAJIMA, Yutaka	Nanoscale Electronic Materials, Molecular Devices, Scanning Probe Microscopy		Materials Science and Engineering
Professor	MATSUMOTO, Hidetoshi	Functional Nanomaterials, Polymer Membranes and Thin Films, Energy-Related Materials		Materials Science and Engineering Energy Science and Engineering
Professor	MIYAUCHI, Masahiro	Photocatalysis, Artificial Photosynthesis, Green House Gas Conversion, Hydrogen Carrier, Chemical Synthesis of Nanoparticles		Energy Science and Engineering Materials Science and Engineering
Professor	MORIKAWA, Junko	Polymer Processing, Thermal Properties of Polymers		Materials Science and Engineering Human Centered Science and Biomedical 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	VACHA, Martin	Optical Properties of Organic Materials		Materials Science and Engineering Energy Science and Engineering
Institute Professor	HOSONO, Hideo	Exploring novel electronic & photonic materials (Superconductor, Transparent-semiconductors, Fluorescent and Catalytic Materials)		Materials Science and Engineering
Associate Professor	ASAI, Shigeo	Physical Properties of Organic Materials, Polymer Composites		Materials Science and Engineering
Associate Professor	GOHDA, Yoshihiro	Electron Theory of Magnetic Materials and Surface Nanostructures		Materials Science and Engineering
Associate Professor	HAYAMIZU, Yuhei	Bio-interface, Nano Materials		Materials Science and Engineering Human Centered Science and Biomedical Engineering
Associate Professor	HAYASHI, Miyuki	Thermophysical Properties of Materials, High Temperature Process Control		Energy Science and Engineering Materials Science and Engineering
Associate Professor	ISHIKAWA, Ken	Optical and Electrical Properties of Organic Materials		Materials Science and Engineering Energy Science and Engineering
Associate Professor	KAWAMURA, Kenichi	High Temperature Physical Chemistry, Solid State Ionics		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	MICHINOBU, Tsuyoshi	Polymer Synthesis, Semiconducting Polymers		Materials Science and Engineering
Associate Professor	MURASHI, 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	NAKATSUJI, Kan	Surface and Interface Physics		Materials Science and Engineering

Associate Professor	SAGARA, Yoshimitsu	Organic Supramolecules, Stimuli-responsive Luminescent Materials, Mechanophores		Materials Science and Engineering
Associate Professor	SANNOMIYA, Takumi	Plasmonic Materials, Electron Microscopy		Materials Science and Engineering Human Centered Science and Biomedical 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	TAHARA, Masaki	Functional metal material, Diffusionless phase transformation, Metallography, Biomedical Ti alloy		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	UEDA, Mitsutoshi	High Temperature Oxidation of Metals, Defect Chemistry in Oxides, Physical Chemistry at High Temperature		Energy Science and Engineering Materials Science and Engineering

(7)Dept. of Chemical Science and Engineering

Academic Supervisor		Research Field	Remarks	Graduate Major
Professor	ANDO, Shinji	Structure and Physical Properties of Polymeric Functional Materials in Solids, Polymer Spectroscopy and Characterization		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	HIRAYAMA, Masaaki	Energy Conversion Materials, Inorganic and Solid State Chemistry, Electrochemical Interface		Energy Science and Engineering Chemical 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	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		Chemical Science and Engineering□
Professor	MURAHASHI, Tetsuro	Synthetic Inorganic and Organometallic Chemistry, Coordination Chemistry		Chemical Science and Engineering□
Professor	NAKAJIMA, Ken	Polymer Physics, Rubber Industry, Atomic Force Microscopy		Chemical Science and Engineering□
Professor	OKOCHI, Mina	Biochemical Engineering, Peptide Engineering, Biosensing, Biotechnology, Medical and Biological Engineering		Chemical Science and Engineering□
Professor	OTSUKA, Hideyuki	Polymer Reactions, Smart Polymeric Materials, Polymer Synthesis		Chemical Science and Engineering□
Professor	SATOH, Kotaro	Polymer Synthesis, Precision Polymerization, Bio-Based Monomer		Energy Science and Engineering 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	SHIMOYAMA, Yusuke	Separation Engineering, Pharmaceutical · food · cosmetic formulation, Flow process, CO ₂ utilization as solvent		Chemical Science and Engineering Energy Science and Engineering
Professor	SHISHIDO, Atsushi	Polymer Physical Chemistry, Liquid Crystals, Optical Function, Mechanical Function		Chemical Science and Engineering Energy 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	TANAKA, Katsunori	Synthetic Organic Chemistry, Bioorganic Chemistry, Chemical Biology		Human Centered Science and Biomedical Engineering Chemical Science and Engineering
Professor	TANAKA, Ken	Synthetic Organic Chemistry, Asymmetric Synthesis, Organometallic Chemistry		Chemical 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	YOSHIZAWA, Michito	Supramolecular Chemistry, Synthetic Chemistry, Nanospace, Water, Photofunction, Biosensor		Chemical Science and Engineering
Specially Appointed Professor	OOKAWARA, Shinichi	Microfluidic Transport Phenomena, CFD (Computational Fluid Dynamics), Microreactor		Chemical Science and Engineering□
Visiting Professor	TATEYAMA, Yoshitaka	Quantum chemistry calculations, Electrochemistry	Doctoral program only	Chemical Science and Engineering□
Associate Professor	AOKI, Saiko	Tribology, Lubricating oil and additives, 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	HARADA, Takuya	Carbon Capture & Utilization, Inorganic Materials, Chemical Process Engineering, Low-carbon Energy System, Nuclear Energy		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	ITO, Shigekazu	Physical Organic Chemistry, Organic Synthesis, Main Group Chemistry, Muon Science		Chemical 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	KUBO, Shoichi	Polymer science, Nanoparticles, Hybrid materials, Photonics, Liquid crystals		Chemical Science and Engineering Energy Science and Engineering
Associate Professor	KUWATA, Shigeki	Coordination Chemistry, Organometallic Chemistry		Chemical Science and Engineering Energy Science and Engineering
Associate Professor	MATSUMOTO, Hideyuki	Process Systems Engineering, Process Intensification, Process Informatics, Renewable Energy, Nitrogen Cycle		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	NAKAZONO, Kazuko	Polymer synthesis, Supramolecular Chemistry		Energy Science and Engineering 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	SHIMIZU, Ryota	Inorganic Solid-State Chemistry, Surface/Interface Science, Materials Informatics		Energy Science and Engineering Chemical Science and Engineering
Associate Professor	SHOJI, Yoshiaki	Functional π -Conjugated Molecules and Polymers, Highly Reactive Main-Group Species		Chemical Science and Engineering□
Associate Professor	TAKAO, Koichiro	Actinide Chemistry, Coordination Chemistry, Nuclear Fuel Cycle, Fuel Reprocessing, Radioactive Wastes, Decontamination		Nuclear Engineering□
Associate Professor	TAKAO, Toshiro	Organometallic Chemistry, Inorganic Chemistry		Chemical Science and Engineering□
Associate Professor	TAMAKI, Takanori	Energy Materials, Biomaterials, Bioelectrochemistry		Chemical Science and Engineering Energy Science and Engineering
Associate Professor	TANAKA, Hiroshi	Synthetic Organic Chemistry, Chemical Biology, Natural Product Chemistry		Chemical 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		Energy Science and Engineering Energy Science and Engineering
Associate Professor	TSUKAHARA, Takehiko	Analytical Chemistry, Radioanalytical Chemistry, Nuclear Waste Management, Environmental Chemistry, 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 Human Centered Science and Biomedical Engineering
Associate Professor	WAKI, Keiko	Fuel Cell, Lithium battery, Solar Cell		Energy Science and Engineering Chemical Science and Engineering
Associate Professor	YAMADA, Keita	Organic Geochemistry, Isotope Chemistry		Chemical Science and Engineering Energy Science and Engineering
Associate Professor	YOKOI, Toshiyuki	Catalytic Chemistry, Nanospace Catalysts, Zeolite Science, Green Chemistry		Chemical Science and Engineering
Associate Professor	YOSHIKAWA, Shiro	Fluid Dynamics, Transport Phenomena		Chemical Science and Engineering□

School of Computing

(8) 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
Professor	ITOH, Toshiya	Complexity Theory, Approximation Algorithms, Online Algorithms		Mathematical and Computing Science
Professor	KANAMORI, Takafumi	Mathematical Statistics, Machine Learning		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
Professor	MIYOSHI, Naoto	Applied Probability, Stochastic Models		Mathematical and Computing Science
Professor	NISHIBATA, Shinya	Theory of Partial Differential Equations		Mathematical and Computing Science
Professor	TAKAYASU, Misako	Statistical Physics, Econophysics, Complex Networks	IIR	Artificial Intelligence Mathematical and Computing Science
Professor	TANAKA, Keisuke	Cryptocurrency and Blockchain Technology, Cybersecurity, Theory of Cryptography		Mathematical and Computing Science
Professor	UMEHARA, Masaaki	Differential Geometry		Mathematical and Computing Science
Professor	WATANABE, Sumio	Statistical Learning Theory, Mathematical Physics		Mathematical and Computing Science
Associate Professor	KASHIMA, Ryo	Mathematical Logic, Non-Classical Logics		Mathematical and Computing Science

Associate Professor	MIURA, Hideyuki	Theory of Partial Differential Equations		Mathematical and Computing Science
Associate Professor	MUROFUSHI, Toshiaki	Set Functions, Piecewise Linear Functions, Information Visualization, Formal Concept Analysis		Mathematical and Computing Science Artificial Intelligence
Associate Professor	NAKANO, Yumiharu	Stochastic Differential Equations, Stochastic Control		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
Associate Professor	WAKITA, Ken	Information Visualization, Social Network Visualization, Programming Languages		Mathematical and Computing Science
Associate Professor	YAMASHITA, Makoto	Mathematical Optimization, Continuous Optimization		Mathematical and Computing Science
Associate Professor (Lecturer)	SUMITA, Hanna	Combinatorial Optimization, Discrete Structure, Algorithms		Mathematical and Computing Science
Associate Professor (Lecturer)	TSUCHIOKA, Shunsuke	Quantum Algebra, Representation Theory		Mathematical and Computing Science
Assistant Professor	MORI, Ryuhei	Quantum Information, Information Theory, Theoretical Computer Science		Mathematical and Computing Science

School of Life Science and Technology

(9) Dept. of Life Science and Technology

Academic Supervisor	Research Field	Remarks	Graduate Major
Professor	FUKUI, Toshiaki	Genetic Engineering, Metabolic Engineering, Extremophiles	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	KAMACHI, Toshiaki	Bioinorganic Chemistry, Cellular Imaging of Oxygen	Life Science and Technology Human Centered Science and Biomedical Engineering
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	KOSHIKAWA, Naohiko	Tumor biology, Tumor diagnostics, Clinical proteomics	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, Drug delivery systems, Biosensing, Nanobioscience	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	TAGUCHI, Hideki	Biophysical Chemistry, Protein Folding, Chaperone, Amyloid/Prion, Translation	Life Science and Technology
Professor	TANAKA, Kan	Evolutional Cell Biology, Cell Cycle, Signal Transduction, Stress Response, Microbiology, Metabolic Regulation, Symbiosis, Organelle, Chloroplast, Mitochondria, Transcriptional Regulation, Plant Physiology, Photosynthesis	Human Centered Science and Biomedical Engineering Life Science and Technology
Professor	TOKUNAGA, Makio	Single Molecule Biology, Nuclear Dynamics, Transcription Regulation, Super-resolution Imaging	Life Science and Technology
Professor	UEDA, Hiroshi	Bioprocess and Protein Engineering, Antibody Engineering, Analytical Chemistry, Biosensors	Human Centered Science and Biomedical Engineering Life Science and Technology
Professor	UENO, Takafumi	Bioinorganic Chemistry, Biophysical Chemistry, Biosupramolecular Chemistry	Life Science and Technology
Professor	YAMAGUCHI, Yuki	Control of Gene Expression, Epigenetics, RNA Processing, Drug Discovery	Life Science and Technology
Professor	YAMAMURA, Masayuki	Systems Biology, Synthetic Biology, Bioinformatics, DNA Computing, Artificial Life, Symbiotic Ecosystems	Life Science and Technology
Professor	YANAGIDA, Yasuko	Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering	Human Centered Science and Biomedical Engineering
Professor	YUASA, Hideya	Bioorganic Chemistry	Life Science and Technology Human Centered Science and Biomedical Engineering

Associate Professor	AIZAWA, Yasunori	Cellular Genomics		Life Science and Technology
Associate Professor	AKAMA, Hiroyuki	Brain Image Analysis(fMRI) and Machine Learning, Complex Networks, Computational Neurolinguistics		Human Centered Science and Biomedical Engineering Life Science and Technology
Associate Professor	FUJITA, Naonobu	Cell and Developmental Biology		Life Science and Technology
Associate Professor	HATA, Takeshi	Organic Synthesis, Asymmetric Synthesis		Life Science and Technology
Associate Professor	HAYASHI, Nobuhiro	Molecular Biology and Proteomics		Life Science and Technology Human Centered Science and Biomedical Engineering
Associate Professor	HIRASAWA, Takashi	Applied Microbiology and Metabolic Engineering		Life Science and Technology
Associate Professor	HIROTA, Junji	Molecular Neuroscience		Life Science and Technology
Associate Professor	HOSHINO, Ayuko	Exosome biology/ cancer/ metastasis/ autism/ molecular biology/ biomarker/ multiple organ interaction/ microenvironment		Life Science and Technology Human Centered Science and Biomedical Engineering
Associate Professor	IMAMURA, Sousuke	Plant Molecular Biology, Gene Regulation, Genetic Engineering, Biofuel, Algal Biomass		Human Centered Science and Biomedical Engineering Life Science and Technology
Associate Professor	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	Biomaging, Protein Engineering, Biosensors		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	McGLYNN, Shawn	Enzyme evolution, prebiotic chemistry, microbial ecology, stable isotope fractionation, geomicrobiology		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	MIURA, Yutaka	Polymer synthesis, Drug Delivery System, Biomaterials Science		Human Centered Science and Biomedical Engineering Life Science and Technology
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	OKADA, Satoshi	Molecular imaging, Chemical biology, Nanotechnology		Human Centered Science and Biomedical Engineering Life Science and Technology
Associate Professor	ORIHARA, Kanami	Immunology, Allergic diseases, Infectious diseases, Circadian rhythm, Preventive medicine		Human Centered Science and Biomedical Engineering Life Science and Technology
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	Chronobiology, oogenesis, sleep, longevity		Life Science and Technology
Associate Professor	TAGAWA, Yoh-ichi	Developmental Engineering, Molecular Biology, Artificial Organ, Immunology		Life Science and Technology
Associate Professor	TAKINOUE, Masahiro	Synthetic biology, DNA nanotechnology, Artificial cell engineering, Biophysics		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	YAGI, Tohru	Neural Engineering, Human Interface, Vision		Human Centered Science and Biomedical Engineering
Associate Professor	YAMADA, Takuji	Genome Science and Bioinformatics		Life Science and Technology
Associate Professor	YATSUNAMI, Rie	Extremophile, Extremozyme, Protein Engineering, Directed Evolution, Metabolic Engineering,		Life Science and Technology
Associate Professor (Lecturer)	ASAKURA, Noriyuki	Bioinorganic Chemistry, Biological Electron Transfer		Life Science and Technology
Associate Professor (Lecturer)	FUJIE, Toshinori	Biomaterials, Polymer Science, Tissue Engineering, Bioelectronics		Life Science and Technology Human Centered Science and Biomedical Engineering
Associate Professor (Lecturer)	KAJIKAWA, Masaki	Molecular Biology		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

(10) Dept. of Civil and Environmental Engineering

Academic Supervisor	Research Field	Remarks	Graduate Major
Professor ASAKURA, Yasuo	Transportation Planning & Engineering	Retire in March, 2022.	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	Retire in March, 2023.	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 KINOUCI, Tsuyoshi	Watershed Hydrology, Environmental Hydrology		Civil Engineering
Professor KITAZUME, Masaki	Soil Mechanics & Geotechnical Engineering	Retire in March, 2022.	Engineering Sciences and Design Civil Engineering
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
Professor NAKAI, Norihiro	Urban Planning, Urban Policy, Urban Design	Retire in March, 2023.	Urban Design and Built Environment
Professor SAITO, Ushio	Landscape Planning and Design	Retire in March, 2023.	Urban Design and Built Environment
Professor SAKANO, Tatsuro	Organizational Design, Planning Theory, Public Management	Retire in March, 2022.	Urban Design and Built Environment
Professor TAKAHASHI, Akihiro	Geotechnical Engineering		Civil Engineering
Professor YAI, Tetsuo	Transportation Planning	Retire in March, 2023.	Urban Design and Built Environment Civil Engineering
Professor YAMANAKA, Hiroaki	Earthquake Engineering, Strong Motion Seismology		Urban Design and Built Environment
Associate Professor CHUJIWA, 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, Water Chemistry, Environmental Quantum Chemistry		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 TAKEMURA, Jiro	Soil Mechanics & Geo-environmental Engineering		Civil Engineering Engineering Sciences and Design
Associate Professor VARQUEZ, Alvin Chrostppher Galang	Global Urban Climatology, Urban-scale Climate Change, Numerical Weather Prediction, GIS-based Dataset Construction		Civil Engineering
Associate Professor WIJEYEWICKREMA, Anil C.	Earthquake Engineering, Structural Engineering, Solid Mechanics	Retire in March, 2023.	Civil Engineering Engineering Sciences and Design
Associate Professor YOSHIMURA, Chihiro	Water Quality Engineering, Aquatic Ecology, Biogeochemistry		Civil Engineering

(11) 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	Bio-fuels, Marine waste recycling, Educational Technology (Online, AI), Renewable Energy Systems, Energy Policy		Energy Science and Engineering Global Engineering for Development, Environment and Society
Professor GOTO, Mika	Corporate Management, Production Economics, Energy Economics		Energy Science and Engineering
Professor HANAOKA, Shinya	Transport Development Studies, Logistics, Air Transport		Global Engineering for Development, Environment and Society
Professor HAYASHIZAKI, Noriyosu	Accelerator Physics and Engineering, Medical Accelerator, Accelerator Driven Neutron Source, Security of Radioactive Sources		Nuclear Engineering

Professor	IIO, Shunji	Plasma Physics, Fusion Engineering, Laser Diagnostics	Retire in March, 2021	Nuclear Engineering
Professor	IKEGAMI, Masako	Science, Technology & Security, Nuclear Security, Nuclear Non-Proliferation, Arms Control & Disarmament, Advanced Technology R&D Policy Analysis		Nuclear Engineering
Professor	KANAE, Shinjiro	Hydrology, Hydrologic cycle, Water resources		Global Engineering for Development, Environment and Society
Professor	KANDA, Manabu	Regional Atmospheric Environment		Global Engineering for Development, Environment and Society □
Professor	KATO, Yukitaka	Energy Conversion, Energy Storage, Chemical Heat Pump, Carbon Recycling Energy System, Hydrogen Energy, Nuclear Energy Utilization System		Nuclear Engineering
Professor	KINOUCHI, 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		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	SAIJO, Miki	Sociolinguistics, Communication Design, Scientific Literacy, Diffusion of Innovation		Engineering Sciences and Design
Professor	SAITO, Shigeki	Engineering Design, Smart Materials, Micromechanics, Micro Robotics		Engineering Sciences and Design
Professor	TAKADA, Jun-ichi	Wireless Communications, Applied Radio Measurement and Sensing, ICT and Development		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	TAKEDA, Yukio	Mechanical Systems Design		Engineering Sciences and Design
Professor	TAKESHITA, Kenji	Nuclear Chemical Engineering, Nuclear Fuel Cycle, Fuel Reprocessing, Isotope Separation, Waste Management, Metal Recycling		Nuclear Engineering Global Engineering for Development, Environment and Society
Professor	TSUJIMOTO, Masaharu	Platform Strategy, Ecosystem Strategy, Social System Design		Engineering Sciences and Design
Associate Professor	ABE, Naoya	Environmental and Social Sustainability, Water-Food-Energy insecurity, Applied Economics, International Development		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	AOYAGI, Takahiro	Electromagnetic Compatibility (EMC), Wave Propagation, Educational Technology		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	INABA, Kazuaki	Mechanical Engineering, Solid and Structure Engineering, Engineering Design		Engineering Sciences and Design
Associate Professor	KATABUCHI, Tatsuya	Neutron Science, Nuclear Physics, Nuclear Transmutation, Neutron Capture Therapy, Radiation Measurement		Nuclear Engineering
Associate Professor	KIKURA, Hiroshige	Nuclear Reactor Safety, Process Control and Measurement System, Thermal Hydraulics, Safe Transport of Radioactive Material		Nuclear Engineering
Associate Professor	KONDO, Masatoshi	Fusion reactor, Fast reactor, Material compatibility, Liquid metal technology		Nuclear Engineering
Associate Professor	MATSUMOTO, Yoshihisa	Radiation Biology, Molecular Biology and Biochemistry, Basic Medicine		Nuclear Engineering
Associate Professor	NAKAMARU, Mayuko	Social simulation, Human behavior and evolution, Mathematical biology, Evolutionary game theory, coupled social-ecological systems model		Engineering Sciences and Design
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	Coastal Disaster Mitigation		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		Global Engineering for Development, Environment and Society Energy Science and Engineering
Associate Professor	TSUKAHARA, Takehiko	Analytical Chemistry, Radiation Chemistry, Environmental Science, Radioactive Waste Management, Micro-Nano Chemistry, Functional Polymer, Nuclear Fuel Cycle Decommissioning		Nuclear Engineering
Associate Professor	TSUTSUI, Hiroaki	Plasma Physics and Nuclear Fusion, Superconducting Magnetic Energy Storage System		Nuclear Engineering
Associate Professor	VARQUEZ, Alvin Chrostppher Galang	Global Urban Climatology, Urban-scale Climate Change, Numerical Weather Prediction, GIS-based Dataset Construction		Global Engineering for Development, Environment and Society
Associate Professor	YAGI, Tohru	Neural Engineering, Human Interface, Vision		Engineering Sciences and Design
Associate Professor	YAMASHITA, Yukihiko	Computer Science, Intelligent Informatics		Global Engineering for Development, Environment and Society
Associate Professor	YOSHIMURA, Chihiro	Water Quality Engineering, Aquatic Ecology, Biogeochemistry		Global Engineering for Development, Environment and Society