

# List of Faculty

## Tokyo Institute of Technology International Graduate Program (C)

### Commencing in September 2022

#### School of Engineering

#### 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	Accepted Students only for Master's Program	Mechanical Engineering Energy Science and Engineering
Professor	OKAMURA, Tetsuji	Cryogenics, Cooling/Refrigeration Technology, Superconducting Magnet Technology	Accepted Students only for Master's Program	Mechanical Engineering Energy Science and Engineering
Professor	OKUNO, Yoshihiro	Physics and Application of Magnetohydrodynamics, MHD Power Generation, Plasma Science and Engineering	Accepted Students only for Master's Program	Energy Science and Engineering Mechanical Engineering
Professor	SUEKANE, Tetsuya	CO2 Geological Storage, Enhanced Oil Recovery, Transport in Porous Media, Numerical Simulation of Multiphase Flow		Energy Science and Engineering Mechanical Engineering
Professor	TANAHASHI, Mamoru	Fluid Dynamics, Heat and Mass Transfer, Combustion		Energy Science and Engineering Mechanical Engineering
Professor	NOZAKI, Tomohiro	Plasma Chemistry, Reaction Engineering, Thermal Engineering		Energy Science and Engineering Mechanical Engineering
Professor	HIRAI, Shuichiro	Global Environment Engineering	Accepted Students only for Master's Program	Mechanical Engineering Energy Science and Engineering
Professor	FUSHINOBU, Kazuyoshi	Thermal Engineering (Laser, Electronic Packaging, Digital Printing, Energy Equipment)		Mechanical Engineering
Specially Appointed Professor	KADONAGA, Masami	Digital printing, Inkjet printing, Electrophotography	Accepted Students only for Master's Program	Mechanical Engineering
Associate Professor	ONISHI, Ryo	Environmental Turbulent Flows, CFD, Machine Learning, Data Assimilation, Micro-Meteorology Forecasting System		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	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	SASABE, Takashi	Advanced Energy Engineering		Mechanical Engineering Energy Science and Engineering

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Associate Professor	SHIMURA, Masayasu	Fluid Dynamics, Heat and Mass Transfer, Combustion, Combustion Control		Energy Science and Engineering Mechanical Engineering
Associate Professor	HASEGAWA, Jun	Plasma Science and Technology, Ion Beam Application Studies, Inertial Fusion Studies,		Mechanical Engineering Energy Science and Engineering
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
Specially Appointed Associate Professor	KATO, Koichi	Digital printing, Inkjet printing, Electrophotography	Accepted Students only for Master's Program	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 Mechanical Engineering
Professor	INOUE, Hirotsugu	Mechanics of Materials, Non-destructive Testing		Mechanical Engineering
Professor	OHTAKE, Naoto	Manufacturing Science and Technology		Mechanical Engineering Engineering Sciences and Design
Professor	SATO, Chiaki	Adhesion Technology, Composite Materials		Mechanical Engineering Engineering Sciences and Design
Professor	TODOROKI, Akira	Solids and Structures Engineering	Not accepted students for Integrated Doctoral Education Program	Mechanical Engineering
Professor	HIRATA, Atsushi	Surface Engineering		Mechanical Engineering
Professor	YOSHINO, Masahiko	Nano/micro Manufacturing, Metalforming, Machining	Accepted Students only for Master's	Mechanical Engineering
Associate Professor	AONO, Yuko	Functional Surface and Thin Film, Laser Processing		Mechanical Engineering
Associate Professor	AKASAKA, Hiroki	Synthesis and Evaluation of Inorganic Carbon Materials		Mechanical Engineering Engineering Sciences and Design
Associate Professor	INABA, Kazuaki	Continuum Mechanics		Mechanical Engineering Engineering Sciences and Design
Associate Professor	KONDO, Masatoshi	Fusion reactor, Fast reactor, Material compatibility, Liquid metal technology		Nuclear Engineering
Associate Professor	SAKAGUCHI, Motoki	Mechanics and Strength of Materials		Mechanical Engineering
Associate Professor	TANAKA, Tomohisa	Production engineering, Manufacturing, Tribology		Mechanical Engineering

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Associate Professor	MIZUTANI, Yoshihiro	Structural Reliability Engineering, Application of Artificial Intelligence		Mechanical Engineering Engineering Sciences and Design
Associate Professor	YAMAZAKI, Takahisa	Materials for Space Use, Advanced Joining and Surface Coating		Mechanical Engineering Engineering Sciences and Design
Associate Professor	YAMAMOTO, Takatoki	Bionanotechnology, Micro TAS		Mechanical Engineering Human Centered Science and Biomedical Engineering
Associate Professor	YOSHIOKA, Hayato	Production Engineering, Ultraprecision Mechanical System		Mechanical Engineering Engineering Sciences and Design
Professor	IWATSUKI, Nobuyuki	Human Friendly Systems, Silent Engineering	Accepted Students only for Master's Program	Mechanical Engineering Engineering Sciences and Design
Professor	SHINSHI, Tadahiko	Mechanical Systems, Magnetic MEMS, Artificial Heart		Mechanical Engineering Human Centered Science and Biomedical Engineering
Professor	TAKAHARA, Hiroki	Structural Dynamics	Accepted Students only for Master's Program	Mechanical Engineering
Professor	MATUNAGA, Saburo	Space Systems Engineering, Micro/Nano Satellite/Spacecraft Systems, Variable Shape Space		Mechanical Engineering
Professor	YANAGIDA, Yasuko	Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering		Human Centered Science and Biomedical Engineering Mechanical Engineering
Professor	YAMAURA, Hiroshi	Mechatronics, Dynamics, Control		Mechanical Engineering
Professor	YOSHIDA, Kazuhiro	Fluid Power Micromachines, Microactuators, Functional Fluid Application	Not accepted students for Integrated Doctoral Education Program	Engineering Sciences and Design Mechanical Engineering
Specially Appointed Professor	KOBAYASHI, Tsune	Analysis and Design of Mechanical Elements, Mechanisms for Automobiles		Mechanical Engineering
Associate Professor	ISHIDA, Tadashi	Biomedical MEMS, Nanobiology		Human Centered Science and Biomedical Engineering Mechanical Engineering
Associate Professor	KIM, Joon-wan	MEMS, Micro Mechatronics, Bio Mechatronics		Mechanical Engineering Human Centered Science and Biomedical Engineering
Associate Professor	SAKAMOTO, Hiraku	Space Structures, Dynamics, Numerical Analysis		Engineering Sciences and Design Mechanical 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

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Associate Professor	HIJIKATA, Wataru	Mechatronics, Medical Device, Wireless Power Transmission		Engineering Sciences and Design Mechanical Engineering
Specially Appointed Associate Professor	MATSUURA, Daisuke	Analysis and Design of Mechanical Elements, Robotics, Mechatronics, Visual Measurement, Visual Servo, Non-contact Manipulation, Welfare equipment		Mechanical Engineering
Assistant Professor (Tenure Track)	CHUJO, Toshihiro	Astrodynamics, Trajectory design, Guidance, Navigation, and Control, Deep space mission design, Spacecraft system, Dynamics simulation		Mechanical Engineering
Professor	OKADA, Masafumi	Robotics, Control Engineering		Engineering Sciences and Design Mechanical Engineering
Professor	SAITO, Shigeki	Micromechanics, Micro Robotics, Engineering Design		Engineering Sciences and Design
Professor	SUZUMORI, Koichi	Robotics, Soft Robotics, Actuator	Accepted Students only for Master's Program	Mechanical Engineering
Professor	TAKEDA, Yukio	Mechanical Systems Design		Mechanical Engineering Engineering Sciences and Design
Professor	NISHIDA, Yoshifumi	Living Centric Design, Living Function Support, Artificial Intelligence, IoT		Engineering Sciences and Design Mechanical Engineering
Professor	ENDO, Gen	Robotics, Mechatronics, Mechanism Design		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	YAGI, Tohru	Neural Engineering, Human Interface, Vision		Human Centered Science and Biomedical Engineering Mechanical Engineering
Specially Appointed Associate Professor	ENDO, Mitsuru	Human Collaborative Robot, Lightweight Actuator, Mechatronics		Mechanical Engineering
Associate Professor (Lecturer)	MIURA, Satoshi	Human-Machine Interface, Brain-Machine Interface, Medical Robotics, Welfare Robotics, Surgical Robotics		Mechanical Engineering