

List of Faculties
Tokyo Institute of Technology International Graduate Program
(A) Commencing in September 2020 Overseas Application

A-1 International Graduate Program in Science for Innovative Leaders (PSIL)

(1) Dept. of Mathematics

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	ENDO, Hisaaki	Topology		Mathematics
Professor	HONDA, Nobuhiro	Complex Geometry		Mathematics
Professor	GOMI, Kiyonori	Algebraic Topology, Mathematical Physics		Mathematics
Professor	KAGEI, Yoshiyuki	Partial Differential Equations, Non-linear Analysis		Mathematics
Professor	KATO, Fumiharu	Algebraic Geometry, Arithmetic Geometry		Mathematics
Professor	NAITO, Satoshi	Representation Theory		Mathematics
Professor	NINOMIYA, Syoiti	Computational Finance, Mathematical Finance, Probability Theory		Mathematics
Professor	TAGUCHI, Yuichiro	Number Theory		Mathematics
Professor	TONEGAWA, Yoshihiro	Partial Differential Equations, Geometric Measure Theory		Mathematics
Professor	YAMADA, Kotaro	Differential Geometry		Mathematics
Associate Professor	FUJIKAWA, Ege	Complex Analysis		Mathematics
Associate Professor	HATTORI, Toshiaki	Geometry		Mathematics
Associate Professor	KALMAN, Tamas	Topology		Mathematics
Associate Professor	KAWAHIRA, Tomoki	Complex Dynamics, Complex Analysis		Mathematics
Associate Professor	KELLY, Shane	Algebraic Geometry, Homotopy Theory		Mathematics
Associate Professor	MA, Shohei	Algebraic Geometry		Mathematics
Associate Professor	NOSAKA, Takefumi	Topology		Mathematics
Associate Professor	ONODERA, Michiaki	Partial Differential Equations		Mathematics
Associate Professor	SUZUKI, Masatoshi	Analytic Number Theory		Mathematics

(2) Dept. of Physics

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	FUJISAWA, Toshimasa	Electron dynamics in semiconductor nanostructures		Physics

Professor	ITO, Katsushi	Particle Physics (Theory)		Physics
Professor	JIDO, Daisuke	Nuclear Hadron Physics (Theory)		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	SASAMOTO, Tomohiro	Statistical physics		Physics
Professor	SATOH, Takuya	Optical condensed matter physics / Ultrafast spectroscopy / Magneto-optics / Optomagnonics		Physics
Professor	YAMAGUCHI, Masahide	Cosmology, particle physics, gravitation (Theory)		Physics
Specially Appointed Professor	DOTANI, Tadayasu	X-ray Astronomy (Experiment)	JAXA	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	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

(3)Dept. of Chemistry

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	GOTO, Kei	Organic Chemistry		Chemistry
Professor	ISHITANI, Osamu	Photochemistry, Photocatalyst		• Energy Science and Engineering • Chemistry
Professor	KAWAGUCHI, Hiroyuki	Coordination Chemistry		Chemistry
Professor	KAWANO, Masaki	Coordination Chemistry, Chemical Crystallography, Supramolecular 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	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	ONO, Kosuke	Organic Chemistry		Chemistry
Associate Professor	TAKAYA, Jun	Organic Chemistry		Chemistry
Associate Professor	TERADA, Akihiko	Volcanology		Chemistry
Associate Professor	UEKUSA, Hidehiro	Chemical Crystallography, Organic Crystal Chemistry		Chemistry
Associate Professor	YAMAZAKI, Masakazu	Physical Chemistry		Chemistry

(4)Dept. of Earth and Planetary Sciences

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	GRADUATE MAJOR
Professor	HERNLUND, John	Geophysical Modeling	Earth-Life Science Institute	Earth and Planetary Sciences

Professor	IDA, Shigeru	Planetary Formation, Numerical Simulation	Earth-Life Science Institute	Earth and Planetary Sciences
Professor	NAKAJIMA, Junichi	Seismology		Earth and Planetary Sciences
Professor	NAKAMOTO, Taishi	Astrophysics, Planetary Formation		Earth and Planetary Sciences
Professor	OGAWA, Yasuo	Geomagnetism, Volcanology, Seismology	Volcanic Fluid Research Center	Earth and Planetary Sciences
Professor	SEKINE, Yasuhito	Earth and Planetary Environment Evolution, Astrobiology	Earth-Life Science Institute	Earth and Planetary Sciences
Professor	UENO, Yuichiro	Geology, Biogeochemistry		Earth and Planetary Sciences
Professor	YOKOYAMA, Tetsuya	Geochemistry, Cosmochemistry		Earth and Planetary Sciences
Associate Professor	GENDA, Hidenori	Comparative Planetology, Aqua Planetology	Earth-Life Science Institute	Earth and Planetary Sciences
Associate Professor	ISHIKAWA, Akira	Geology, Solid Earth Geochemistry		Earth and Planetary Sciences
Associate Professor	KANDA, Wataru	Physical Volcanology, Geomagnetism	Volcanic Fluid Research Center	Earth and Planetary Sciences
Associate Professor	OHTA, Kenji	Study of the Earth's Deep Interior, High-Pressure Mineral Physics		Earth and Planetary Sciences
Associate Professor	OKUZUMI, Satoshi	Astrophysics, Planetary Formation		Earth and Planetary Sciences
Associate Professor	SATO, Bunei	Observational Astronomy, Exoplanets		Earth and Planetary Sciences