The background of the entire page is a stylized, grayscale illustration of a circuit board. It features a complex network of white lines representing traces and pads, set against a background of various shades of gray. The lines are arranged in a way that suggests depth and connectivity, with some lines curving and others running straight. The overall effect is a technical and modern aesthetic.

**AY2025 Admission (Effective 2024),  
Department of Electrical Engineering  
and Information Systems (EEIS),  
Graduate School of Engineering,  
The University of Tokyo  
[Meet the Faculty]**

# List of the faculty

## Power Engineering and Environmental Technology



**Inomoto, Michiaki**  
Professor

Kashiwa

Nuclear fusion energy, Plasma science and engineering



**Umemoto, Takahiro**  
Project Associate Professor

Hongo

†

Environment-friendly electrical device,  
Anomaly detection and Condition monitoring,  
Dielectric and insulating materials



**Ohsaki, Hiroyuki**  
Professor

Kashiwa

※

Applied superconductivity, Electric machinery



**Okada, Yoshitaka**  
Professor

Komaba

※

New energy, Solar cell technology,  
Quantum nanostructures



**Ono, Yasushi**  
Professor

Hongo, Kashiwa

※

Plasma physics and engineering,  
Fusion energy development



**Ono, Ryo**  
Professor

Hongo, Kashiwa

Plasma applications, medical, material  
and aerospace applications, spectroscopic  
measurements, reactive species



**Kumada, Akiko**  
Professor

Hongo

High voltage engineering, Plasma physics,  
Electric power apparatus



**Sato, Masahiro**  
Associate Professor

Hongo

Dielectric and insulating materials, Materials informatics



**Baba, Jumpei**  
Professor

Hongo, Kashiwa

Power Electronics, Smart Grid



**Fujii, Takashi**  
Project Professor

Hongo

†

Laser sensing, Diagnostics of Electric Power Apparatus



**Matsuhashi, Ryuji**  
Professor

Hongo

Energy economics, Environmental economics,  
Measures to mitigate global warming

※ No assignment of students for this year.

† Students assigned to Fujii's laboratory are co-supervised with Prof. Kumada

‡ Students assigned to Umemoto's laboratory are co-supervised with Prof. Kumada.

## Space Engineering and Control Technology



**Ohnishi, Wataru**  
Associate Professor

Hongo

Control engineering, Precision control, Learning control, Optimization, Mechatronics



**Koseki, Takafumi**  
Professor

Hongo

Motion control, Rail—guided transport, Electric traction



**Kobayashi, Daisuke**  
Associate Professor

Sagamihara

Space Electronics, IT Reliability & Sustainability, Environmental Hardening



**Shimizu, Osamu**  
Associate Professor

Kashiwa

Electric Vehicle, Electric Motor, Wireless Power transfer, Dynamic Wireless Power Transfer



**Hashimoto, Tatsuaki**  
Professor

Sagamihara

Spacecraft Control, Image-based Navigation



**Fukuda, Seisuke**  
Professor

Sagamihara

Spacecraft system, signal processing, microwave remote sensing



**Fujimoto, Hiroshi**  
Professor

Kashiwa

Applied Control Engineering, Electric Vehicle and Airplane, Wireless Power Transfer



**Yoshimitu, Tetsuo**  
Professor

Sagamihara

Robotics, Artificial intelligence, Planetary rover, Mobile system, Localization

## Nano Physics and Device Technology



**Iwamoto, Satoshi**  
Professor

Komaba

Quantum Nanophotonics, Topological Photonics, Diamond Nanophotonics



**Ohya, Shinobu**  
Professor

Hongo

Spintronics, spin current, topological materials, oxide-based spintronics devices, quantum nano physics



**Kobayashi, Masaki**  
Associate Professor

Hongo

‡

Spintronics, functional electronic materials, electronic structure, synchrotron radiation spectroscopy



**Kobayashi, Masaharu**  
Associate Professor

Komaba

Next generation semiconductor transistor and memory technology, AI application nanoelectronic device



**Shinya, Hikari**  
Project Associate Professor

Hongo

†

Spintronics, First-principles Calculation, Computational Materials Design





















**Sugiyama, Masakazu**  
Professor

Komaba

High-efficiency solar cells, Solar Fuel, Renewable energy system

† Students assigned to Hikari Shinya's laboratory are co-supervised with Prof. Masaaki Tanaka

‡ Students assigned to Masaki Kobayashi's laboratory are co-supervised with Prof. Masaaki Tanaka.

 <p><b>Seki, Munetoshi</b> Associate Professor</p> <p>Hongo ††</p> <p>Advanced energy conversion materials, Oxide electronics, Magnonics</p>	 <p><b>Someya, Takao</b> Professor</p> <p>Hongo</p> <p>Organic and molecular electronics, Flexible devices and systems, Biological measurement, Wearable electronics</p>	 <p><b>Takagi, Shinichi</b> Professor</p> <p>Hongo ※</p> <p>Semiconductor device, Nano device, MOSFET</p>
 <p><b>Takahashi, Takuji</b> Professor</p> <p>Komaba</p> <p>Nano-probes, Nanomaterial characterization, Surface physics</p>	 <p><b>Tekenaka, Mitsuru</b> Professor</p> <p>Hongo</p> <p>Si photonics, electronic-photonic integrated circuit, optical computing</p>	 <p><b>Tanaka, Masaaki</b> Professor</p> <p>Hongo</p> <p>Physics and devices using spin degrees of freedom as well as optical/transport properties, Spintronics materials and devices, Nanoscience and nanotechnology</p>
 <p><b>Tanemura, Takuo</b> Professor</p> <p>Hongo</p> <p>Photonic integrated circuit, nanophotonics, optical imaging</p>	 <p><b>Toshiyoshi, Hiroshi</b> Professor</p> <p>Komaba</p> <p>Microelectromechanical Systems, MEMS</p>	 <p><b>Toprasertpong, Kasidit</b> Associate Professor</p> <p>Hongo</p> <p>Semiconductor/Dielectric/Ferroelectric materials and devices, Advanced transistors, Logic and Memory, AI-accelerator devices</p>
 <p><b>Nakano, Yoshiaki</b> Professor</p> <p>Hongo ※</p> <p>Optoelectronic devices, integrated photonics, optical energy</p>	 <p><b>Nomura, Masahiro</b> Professor</p> <p>Komaba</p> <p>Energy harvesting, Integrated quantum electronics</p>	 <p><b>Hirakawa, Kazuhiko</b> Professor</p> <p>Komaba ※</p> <p>Quantum semiconductor devices, nanoscience, terahertz dynamics</p>
 <p><b>Hiramoto, Toshiro</b> Professor</p> <p>Komaba ※</p> <p>Integrated devices, Low power devices, Silicon power devices</p>	 <p><b>Maeda, Takuya</b> Lecturer</p> <p>Hongo</p> <p>WBG Semiconductors, High Electron Mobility Transistor</p>	 <p><b>Matsuhisa, Naoji</b> Associate Professor</p> <p>Komaba</p> <p>Soft Materials, Soft and Stretchable Electronics</p>
 <p><b>Yamagishi, Kento</b> Lecturer</p> <p>Hongo</p> <p>Ultrathin film devices, Stretchable electronics, Biomedical engineering</p>	 <p><b>Yokota, Tomoyuki</b> Associate Professor</p> <p>Hongo</p> <p>Organic electronics, Printed Electronics</p>	 <p><b>Le Duc, Anh</b> Associate Professor</p> <p>Hongo</p> <p>Ferromagnetism/Superconductivity/Topology-integrated semiconductor materials and devices, Spintronics, Quantum computing devices.</p>

※ No assignment of students for this year.

†† Students assigned to Seki's laboratory are co-supervised with Prof. Tabata.

## Nano Bio Electronics and Complexity Engineering



**Kohno, Takashi**  
Professor

Komaba

Neuromorphic Systems, Neuromimetic Systems,  
Nervous system modeling



**Kobayashi, Tetsuya J.**  
Professor

Komaba

Theoretical biology, Systems biology, Bioinformatics,  
Biophysics, Computational neuroscience



**Sekino, Masaki**  
Professor

Hongo

Biomedical engineering, Functional neuroimaging,  
Wearable devices



**Tabata, Hitoshi**  
Professor

Hongo

Oxide electronics, Bio-electronics,  
Quantum life science, Magnonics



**Matsui, Hiroaki**  
Associate Professor

Hongo

※

Nano-optics, Nano-materials, biosensing, energy-  
saving, thermal management, mechano-optics

## Media, Intelligence and Computation Technology



**Oishi, Takeshi**  
Associate Professor

Komaba

Computer Vision, Augmented/Mixed Reality



**Saito, Daisuke**  
Associate Professor

Hongo

Speech Information Processing,  
Multimedia Information Processing



**Shimokawabe, Takashi**  
Associate Professor

Hongo, Kashiwa

High-performance Computing,  
Accelerated Computing, Computational Mechanics



**Hanawa, Toshihiro**  
Professor

Hongo, Kashiwa

High Performance Computing, Accelerator,  
High-speed Interconnect



**Minematsu, Nobuaki**  
Professor

Hongo

Speech Communication,  
Computer-Aided Language Learning

※ No assignment of students for this year.

## Ubiquitous Information Environment Technology



**Ogawa, Takefumi**  
Associate Professor

Kashiwa

Augmented Reality, Human Computer Interaction, Human Interface, Interactive Media



**Kamezaki, Mitsuhiro**  
Project Professor

Hongo

†

Robotics, Human-symbiotic smart mobility, Functional material-based smart device



**Kawahara, Yoshihiro**  
Professor

Hongo

Digital Fabrication, Sensing, Internet of Things



**Kudoh, Tomohiro**  
Professor

Hongo, Kashiwa

※

Information system infrastructure, IT resource management



**Nakamura, Ryo**  
Associate Professor

Hongo, Kashiwa

Network Architecture, System Software



**Nakayama, Masaya**  
Associate Professor

Hongo, Kashiwa

Wide area distributed processing technology



**Narusue, Yoshiaki**  
Associate Professor

Hongo

Wireless Engineering (Wireless Power Transfer & Wireless Communication), Cyber-Physical System, Edge AI



**Morikawa, Hiroyuki**  
Professor

Hongo

Beyond 5G/6G, Cloud Robotics, Digital Society Design



**Yatani, Koji**  
Associate Professor

Hongo

Human-AI Interaction, Digital Healthcare, Usable Security

※ No assignment of students for this year.

† Students assigned to Mitsuhiro Kamezaki's laboratory are co-supervised with Prof. Yoshihiro Kawahara.

## LSI System Engineering



**Iizuka, Tetsuya**  
Associate Professor

Hongo

Analog/Digital Mixed-Signal Advanced Integrated Systems



**Ikeda, Makoto**  
Professor

Hongo

Hardware Security and System LSI, Smart Image Sensor Systems



**Kosuge, Atsutake**  
Lecture

Hongo †

Low-power Circuits, AI processor, Computational Sensing



**Takamiya, Makoto**  
Professor

Komaba

Integrated Power Management, Power Electronics



**Takeuchi, Ken**  
Professor

Hongo

Data-Centric Computing, Computation in Memory, AI chip, Approximate Computing, Co-design of Hardware & Software



**Nakane, Ryosho**  
Project Associate Professor

Hongo ※

Functional-electronic / Semiconductor devices and systems, Physical dynamics-based computing



**Hamada, Mototsugu**  
Project Professor

Hongo ※

Lowpower Circuits, Wireless Communication Systems, 3D Integration



**Mita, Yoshio**  
Associate Professor

Hongo

MEMS, Intelligent Semiconductor Microdevices

## Photonics and Wireless Engineering



**Ozeki, Yasuyuki**  
Professor

Komaba

Biomedical imaging, pulsed lasers, quantum optics



**Set, Sze Yun**  
Project Professor

Hongo ※

Ultrafast Pulsed Laser, 3D Imaging, LIDAR



**Natsuaki, Ryo**  
Associate Professor

Hongo

Measurement Engineering, Synthetic Aperture Radar, Remote Sensing



**Hirose, Akira**  
Professor

Hongo

Neural networks (AI data processing), Wireless electronics (Imaging, Sensing)



**Yamashita, Shinji**  
Professor

Hongo

Fiber Photonics, Fiber lasers, Fiber sensing

※ No assignment of students for this year.

† Students assigned to Atsutake Kosuge's laboratory are co-supervised with Prof. Makoto Ikeda.

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For inquiries or information

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