

# List of Faculty

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

### Commencing in September 2022

#### School of Engineering

#### Dept. of Electrical and Electronic Engineering

| Academic Supervisor |                     | Research Field   | Remarks | Graduate Major   |
|---------------------|---------------------|--|---------|--|
| Associate Professor | ITO, Hiroyuki       | Low Power CMOS Circuits, Internet of Medical Things, IoT in Agriculture  |         | Electrical and Electronic Engineering  |
| Professor           | OKADA, Kenichi      | Wireless Circuit Design, 5G, Millimeter-Wave, IoT, Analog Circuit Design   |         | Electrical and Electronic Engineering  |
| Professor           | TOKUDA, Takashi     | Microdevices and circuits for biomedical and IoT   |         | Human Centered Science and Biomedical Engineering<br>Electrical and Electronic Engineering |
| Associate Professor | AOYAGI, Takahiro    | Electromagnetic Compatibility (EMC)  |         | Electrical and Electronic Engineering  |
| Professor           | UENOHARA, Hiroyuki  | Optical Communications, Optical Signal Processing, Photonic Switching, Photonic Integration  |         | Electrical and Electronic Engineering  |
| Associate Professor | KUROSAWA, Minoru    | Actuators, Audio Engineering, echo location  |         | Electrical and Electronic Engineering  |
| Professor           | SAKAGUCHI, Kei      | Wireless communications, 5G/6G, IoT, mmWave, Wireless power transmission, Connected car, Automated driving   |         | Electrical and Electronic 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 | SHOJI, Yuya         | Lightwave Circuits, Optical Communication  |         | Electrical and Electronic Engineering  |
| Associate Professor | TABARU, Marie       | Biomedical Engineering Measurement, Agricultural Engineering Measurement, Acoustic Engineering   |         | Human Centered Science and Biomedical Engineering<br>Electrical and Electronic Engineering |
| Professor           | NAKAMURA, Kentaro   | Optical Sensing, Applied Acoustic Devices  |         | Human Centered Science and Biomedical Engineering<br>Electrical and Electronic Engineering |
| Associate Professor | NISHIKATA, Atsuhiko | Electromagnetic Compatibility (EMC), Material Measurement, Auditory Information  |         | Electrical and Electronic Engineering  |
| Professor           | NISHIYAMA, Nobuhiko | Photonic Electronic Convergence Circuit, Semiconductor Lasers, Ultra high-speed transceiver and Measurement System using Photonic Integrated Circuit |         | Electrical and Electronic Engineering  |
| Professor           | HIROKAWA, Jiro      | Millimeter-wave/Terahertz-wave planar antennas, Electromagnetic wave analysis  |         | Electrical and Electronic Engineering  |

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| Assistant Professor (Tenure Track) | TOMURA, Takashi      | Satellite onboard antenna, wireless communication, large-scale electromagnetic analysis.              |         | Electrical and Electronic Engineering  |
| Associate Professor                | MIYAMOTO, Tomoyuki   | Optoelectronics, Optical wireless power transmission  |         | Electrical and Electronic Engineering  |
| Associate Professor                | OHMI, Shun-ichiro    | Semiconductor Devices   |         | Electrical and Electronic Engineering  |
| Associate Professor                | KAKUSHIMA, Kuniyuki  | Nanoelectronics and MEMS  |         | Electrical and Electronic Engineering  |
| Associate Professor                | KODERA, Tetsuo       | Quantum computing technology, Quantum Information devices, Nano quantum electronics                   |         | Electrical and Electronic Engineering<br>Energy Science and Engineering                    |
| Associate Professor                | SUZUKI, Safumi       | Terahertz Devices, Active Metamaterials, THz Wireless Communication, THz Radar System, THz 3D Imaging |         | Electrical and Electronic Engineering  |
| Professor                          | HATANO, Mutsuko      | Quantum sensors, Power devices, Solid-State Physics and Engineering                                   |         | Energy Science and Engineering<br>Electrical and Electronic Engineering                    |
| Associate Professor                | IWASAKI, Takayuki    | Diamond Quantum Sensor, Solid-state Quantum Emitter for Quantum Communication, Diamond Device         |         | Electrical and Electronic Engineering<br>Energy Science and Engineering                    |
| Professor                          | MIYAMOTO, Yasuyuki   | Compound Semiconductor Process/Devices  |         | Electrical and Electronic Engineering  |
| Professor                          | WAKABAYASHI, Hitoshi | Semiconductor Devices, Nano-electronics, LSI  |         | Electrical and Electronic Engineering  |
| Associate Professor                | WATANABE, Masahiro   | Quantum Devices, Hetero-epitaxial 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  |
| Professor                          | KAJIKAWA, Kotaro     | Plasmonics, Metamaterials, Nonlinear Optics   |         | Human Centered Science and Biomedical Engineering<br>Electrical and Electronic Engineering |
| Associate Professor                | SUGAHARA, Satoshi    | Integrated Devices and Circuits   |         | Electrical and Electronic Engineering  |
| Associate Professor                | TAGUCHI, Dai         | Dielectric physics, Organic electronics, Nonlinear Optics   |         | Electrical and Electronic Engineering  |
| Professor                          | NAKAGAWA, Shigeki    | Spintronics, Information Storage Devices, Superconductive Spintronics                                 |         | Electrical and Electronic Engineering  |
| Associate Professor                | PHAM, Nam Hai        | Semiconductor/metal spintronics, Ferromagnetic semiconductor, Topological insulator                   |         | Electrical and Electronic Engineering  |

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|---|--------------------|--|--|--|
| Professor                               | MANAKA, Takaaki    | Organic and Polymer Electronics, Organic Devices, Nonlinear Optics   |  | Electrical and Electronic Engineering  |
| Associate Professor                     | MIYAJIMA, Shinsuke | Photovoltaic materials and devices   |  | Energy Science and Engineering<br>Electrical and Electronic Engineering                    |
| Professor                               | YAMADA, Akira      | Semiconductor Physics, Solar Cells, Compound Thin-Film Solar Cells   |  | Energy Science and Engineering<br>Electrical and Electronic Engineering                    |
| Associate Professor                     | AKATSUKA, Hiroshi  | Low-Temperature Plasma Chemistry and Physics   |  | Nuclear Engineering<br>Electrical and Electronic Engineering                               |
| Associate Professor                     | OKINO, Akitoshi    | Atmospheric Plasma Engineering, Spectrochemistry, Plasma Medicine  |  | Human Centered Science and Biomedical Engineering<br>Electrical and Electronic Engineering |
| Professor                               | OGURI, Yoshiyuki   | Environmental- and Medical Sciences Based on MeV Ion Beams   | indicates person who will retire in March, 2023. | Nuclear Engineering  |
| Assistant Professor (Tenure Track)      | KAWABE, Kenichi    | Power system engineering, Renewable energy sources   |  | Electrical and Electronic Engineering<br>Energy Science and Engineering                    |
| Associate Professor                     | TAKEUCHI, Nozomi   | Plasma Engineering, Electrostatics, High Voltage Engineering   |  | Electrical and Electronic Engineering<br>Energy Science and Engineering                    |
| Professor                               | CHIBA, Akira       | Electric Machine, Magnetic Suspension  |  | Electrical and Electronic Engineering<br>Energy Science and Engineering                    |
| Associate Professor                     | KIYOTA, Kyohei     | Electric Machines, motor, generator, magnetic suspension   |  | Energy Science and Engineering<br>Electrical and Electronic Engineering                    |
| Associate Professor                     | HAGIWARA, Makoto   | Power Electronics, Smart Grid, Renewable Energy  |  | Energy Science and Engineering<br>Electrical and Electronic Engineering                    |
| Professor                               | FUJITA, Hideaki    | Power Electronics, Electrical Machinery  |  | Electrical and Electronic Engineering<br>Energy Science and Engineering                    |
| Assistant Professor (Tenure Track)      | SANO, Kenichiro    | Power Electronics, High voltage dc transmission  |  | Electrical and Electronic Engineering<br>Energy Science and Engineering                    |
| Specially Appointed Professor           | FUJII, Teruya      | 5G and 6G cellular system, Network cooperated cellular system, HAPS mobile communication system, Massive antenna design  | indicates person who will retire in March, 2023. | Electrical and Electronic Engineering  |
| Specially Appointed Associate Professor | OMOTE, Hideki      | 5G and 6G cellular system, 5G and 6G mobile radio propagation, International standardization of mobile radio propagation | indicates person who will retire in March, 2023. | Electrical and Electronic Engineering  |
| Specially Appointed Professor           | URAKABE, Takahiro  | Power electronics  |  | Electrical and Electronic Engineering<br>Energy Science and Engineering                    |

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|--|-----------------|-----------------------|----------------|---|
| Specially<br>Appointed<br>Associate<br>Professor | HARADA, Shigeki | Power electronics     |                | Electrical and Electronic Engineering<br>Energy Science and Engineering |