

# School of Engineering The University of Tokyo

東京大学  
工学系研究科・工学部概要

2021

## Contents

1. Message from the Dean ..... 1
2. History ..... 2
3. Organization ..... 3
4. Number of Faculty and Staff  
Members ..... 17
5. Student Data ..... 18
6. International Exchange ..... 21
7. Research Activities ..... 25
8. Finances ..... 28
9. Public Relations and Information  
..... 29

電氣系教員室  
Professor Rooms,  
Dept. of EEICE

電氣系研究室  
Laboratories,  
Dept. of EEICE

情報学環研究室  
Laboratories,  
Graduate school of  
Interdisciplinary  
Information Studies

機械情報工学研究室  
Laboratories, Dept. of  
Mechano-Informatics

機械工学教員室  
Professor Rooms, Dept. of  
Mechanical Engineering

機械工学研究室  
Laboratories, Dept. of  
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Mechano-Informatics

機械工学教員室  
Professor Rooms, Dept. of  
Mechanical Engineering

機械工学研究室  
Laboratories, Dept. of  
Mechanical Engineering

工学部図書室  
Library, Engineering Bldg. 2

電気系CAD室・製図板室  
CAD and Drawing Boards,  
Dept. of EEICE

工学・情報理工学図書館  
事務室 (資料)

241号 講義室  
Lecture room 241

243号 講義室  
Lecture room 243

電気系実験室  
Experimental Labs,  
Dept. of EEICE

242号 講義室  
Lecture room 242

244号 講義室  
Lecture room 244

電気系学生控室

## 1. Message from the Dean

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### Engineering: Designing Dreams and Shaping the Future

Engineering is an academic discipline in which new technologies and ideas are crafted for the advancement of the health, welfare, and security of humankind. As a result of engineering being a field that is in a constant state of flux, this school has been continuously evolving to meet the changing demands of society ever since it was established as Technical College of Imperial University in 1886.

The issues facing society today, such as discrimination, poverty, climate change, and the “super-aging population,” are increasingly complex and are proving difficult to address. Putting sustainability first, we value earth’s limited resources, protect and nurture the global commons, and lead our transformation into a society that does not burden the environment. At the same time, we help to realize an inclusive society that respects human diversity and celebrates individuality.

Faculty of Engineering at the University of Tokyo consists of 16 departments, while School of Engineering consists of 18 departments, 2 affiliated research facilities and 10 affiliated research centers. There are approximately 580 faculty members and 220 staff who are engaged in engineering education and research. The numbers of undergraduate, master’s degree, and doctoral degree students are approximately 2,200, 2,300 and 1,200, respectively. By promoting diversity, supporting young researchers, and linking knowledge across different fields, we strive for excellence in engineering research and endeavor to create value in a knowledge-intensive society.

To meet the demands of society, it is necessary to modernize engineering training. By balancing tradition with innovation in engineering, we will provide the best educational opportunity to nurture deep expertise and entrepreneurship. Students will be trained to possess a global outlook and public perspective so as to grow into knowledgeable professionals and innovation leaders. By incorporating e-learning and active learning techniques, we will cultivate an educational environment where students can engage with areas of interest while ensuring balance in their studies. In addition, we will also enhance its postgraduate education offerings such as recurrent education and lifelong learning programs as well as promote the acceptance of graduate doctoral holders already in the workforce in order to cultivate new relationships between society and academia.

We will commit the world’s highest level of engineering education and research to the service of the global community in our march toward sustainable living. With strengthened research infrastructure, diversified financial resources, and modernized rules, we will carry out world-class engineering research over longer timeframes made possible in an academic environment.

We invite you to join us and open new doors to the future together.

**Takao Someya**

Dean of the School of Engineering, the University of Tokyo

## 2. History

### (1) Timeline

Year	Month	Events
1886	March	Teikoku Daigaku (Imperial University) established. Kobu Daigakko merged with the Faculty of Technology, University of Tokyo, to form the Technical College with 7 engineering departments.
1897	June	Imperial University renamed Tokyo Imperial University.
1919	February	Technical College became Faculty of Engineering.
1939	October	Engineering Research Institute established.
1942	April	Facilities in Hongo renamed First Faculty of Engineering. Second Faculty of Engineering established in the City of Chiba.
1947	October	Tokyo Imperial University renamed The University of Tokyo.
1949	May	The University of Tokyo reorganized under the new educational system (11 departments). Institute of Industrial Science established with resources drawn from the Second Faculty of Engineering.
1951	February	Branch School of the Faculty of Engineering established.
1951	March	Second Faculty of Engineering abolished.
1953	April	Graduate Schools established under the new educational system.
1954	March	Branch School of the Faculty of Engineering abolished.
1965	April	Graduate School of Engineering established.
1967	June	Nuclear Engineering Research Laboratory established.
1975	April	Faculty of Engineering began admitting graduates from technical junior colleges.
1981	April	Institute of Interdisciplinary Research established.
1988	March	Institute of Interdisciplinary Research abolished.
1992	April	With more emphasis being placed on Graduate Schools, reinforcement of the Graduate School of Engineering began.
1995	April	Reinforcement of the Graduate School of Engineering completed. (21 undergraduate departments, 24 departments, (83 divisions))
1999	April	Departments of Metallurgical Engineering and Materials Science merged into Department of Materials Engineering.
2000	April	Research Center for Water Environment Technology established. Department of Systems Innovation established.
2001	April	Graduate School of Information Science and Engineering established. (17 undergraduate departments, 20 departments) Quantum Phase Electronics Center established.

Year	Month	Events
2002	January	Reorganized Engineering Research Institute and Institute of Engineering Innovation established.
2004	March	Engineering Research Institute abolished.
2004	April	All National Universities transformed into National University Corporations, and The University of Tokyo was incorporated.
2005	March	Nuclear Engineering Research Laboratory abolished.
2005	April	Department of Nuclear Engineering and Management and Nuclear Professional School established. Center for Innovation of Engineering Education established. Department of Superconductivity abolished.
2006	April	Department of Precision Engineering, Department of Bioengineering and Department of Technology management for Innovation established. (18 undergraduate departments, 22 departments)
2008	April	Frontier Research Center for Energy and Resources established. Department of Electrical and Electronic Engineering, Department of Electrical Engineering and Information Systems and Department of Systems Innovation established. (17 undergraduate departments, 19 departments)
2009	April	Department of Mechanical Engineering established. (16 undergraduate departments, 18 departments)
2010	April	Photon Science Center established.
2011	April	Center for Innovation of Engineering Education abolished. Institute for Innovation in International Engineering Education established.
2012	April	Medical Device Development and Regulation Research Center established.
2013	April	Resilience Engineering Research Center established.
2016	April	Center for Spintronics Research Network established.
2019	April	Research into Artifacts, Center for Engineering established.
2019	July	Research Center for Water Environment Technology reorganized.
2019	October	Systems Design Lab established.
2021	April	Campus Management Research Center established.

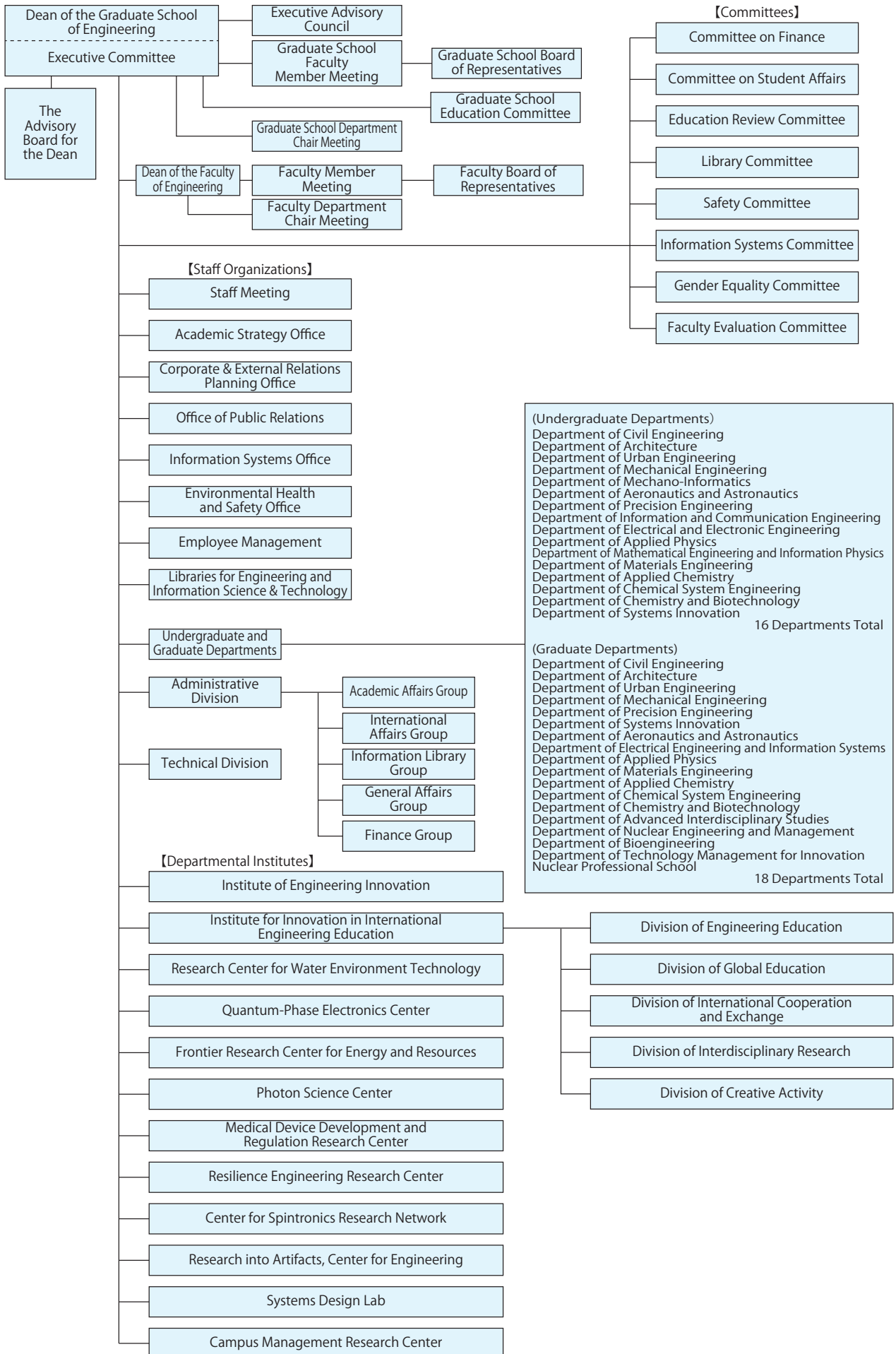
### (2) List of Deans

Order of Succession	Name	Tenure
1	Koui Furuichi	1886.5.1 - 1888.11.27
2	Hiramoto Watanabe	1888.11.28 - 1889.10.10
3	Koui Furuichi	1889.10.11 - 1898.7.18
4	Kingo Tatsuno	1898.7.19 - 1902.12.28
5	Wataru Watanabe	1902.12.29 - 1918.11.25
6	Seichi Terano	1918.11.26 - 1920.6.30
7	Yasushi Tsukamoto	1920.7.1 - 1923.7.5
8	Kuniichi Tawara	1923.7.6 - 1926.7.9
9	Yasushi Tsukamoto	1926.7.10 - 1929.3.31
10	Motoji Shibusawa	1929.4.1 - 1932.3.30
11	Yoshio Tanaka	1932.3.31 - 1935.3.31
12	Jo Hiraga	1935.4.1 - 1938.3.31
13	Shigeteru Niwa	1938.4.1 - 1941.3.31
14	Yoshizo Uchida	1941.4.1 - 1943.3.31
15	Shoji Seto	1942.4.18 - 1945.3.31 1948.4.1 - 1951.3.31
16	Hidenosuke Sano	1943.3.12 - 1946.3.11
17	Tsuneo Inokuchi	1945.4.1 - 1948.3.31
18	Naoto Kameyama	1946.3.12 - 1949.3.11
19	Matsujiro Oyama	1949.3.12 - 1952.3.11
20	Hidesaburo Aoyama	1952.3.12 - 1954.3.30
21	Fujio Nakanahiahi	1954.3.31 - 1956.3.31
22	Masao Yamagata	1956.4.1 - 1958.3.30
23	Itusaku Koga	1958.3.31 - 1960.3.30
24	Kiyoshi Muto	1960.3.31 - 1962.3.30
25	Masao Yoshiki	1962.3.31 - 1964.3.30
26	Toshifusa Sakamoto	1964.3.31 - 1966.3.30
27	Takeo Naka	1966.3.31 - 1968.3.31
28	Takeo Mogami	1968.4.1 - 1968.11.4
29	Takashi Mukaibo	1968.11.5 - 1969.3.31

Order of Succession	Name	Tenure
30	Hiroshi Kihara	1969.4.1 - 1971.3.31
31	Takeshi Sugeno	1971.4.1 - 1973.3.31
32	Sogo Okamura	1973.4.1 - 1975.3.31
33	Jiro Kondo	1975.4.1 - 1977.3.31
34	Hajime Umemura	1977.4.1 - 1978.4.1
35	Sumiji Fujii	1978.4.2 - 1980.4.1
36	Yoshihiro Hisamatsu	1980.4.2 - 1982.4.1
37	Jinichi Nagumo	1982.4.2 - 1984.4.1
38	Kiyoshi Horikawa	1984.4.2 - 1986.4.1
39	Hiroshi Inose	1986.4.2 - 1987.3.31
40	Masao Iri	1987.4.1 - 1989.3.31
41	Hiroyuki Yoshikawa	1989.4.1 - 1991.3.31
42	Takuo Sugano	1991.4.1 - 1992.3.31
43	Hiroyuki Okamura	1992.4.1 - 1994.3.31
44	Youichi Goshi	1994.4.1 - 1996.3.31
45	Hajime Okamura	1996.4.1 - 1998.3.31
46	Naomasa Nakajima	1998.4.1 - 2000.3.31
47	Hiroshi Komiyama	2000.4.1 - 2002.3.31
48	Shinichiro Ogaki	2002.4.1 - 2004.3.31
49	Kimihiko Hirao	2004.4.1 - 2006.3.31
50	Yoichiro Matsumoto	2006.4.1 - 2008.3.31
51	Kazuo Hotate	2008.4.1 - 2010.3.31
52	Takehiko Kitamori	2010.4.1 - 2012.3.31
53	Noboru Harata	2012.4.1 - 2014.3.31
54	Mamoru Mitsuishi	2014.4.1 - 2017.3.31
55	Tatsuya Okubo	2017.4.1 - 2020.3.31
56	Takao Someya	2020.4.1 -

# 3. Organization

## (1) Organizational Chart



## (2) Dean and Officers (for Academic Year 2021)

Dean of the School of Engineering	
	Takao Someya
Vice Deans	
	Yasuhiro Kato
	Yuji Suzuki
	Yukihiro Shimogaki
General Manager	Akira Sakurai
Special Advisors to the Dean	
	Tetsuya Ishida
	Kiyoshi Izumi
	Yukitoshi Motome
	Kohei Tsumoto
Graduate Department Chairs	
Department of Civil Engineering	Yoshimitsu Tajima
Department of Architecture	Tetsuya Sakuma
Department of Urban Engineering	Tsuyoshi Fujita
Department of Mechanical Engineering	Junichiro Shiomi
Department of Precision Engineering	Toshihiro Itoh
Department of Systems Innovation	Hideaki Miyamoto
Department of Aeronautics and Astronautics	Kimiya Komurasaki
Department of Electrical Engineering and Information Systems	Hiroyuki Morikawa
Department of Applied Physics	Kyoko Ishizaka
Department of Materials Engineering	Eiji Abe
Department of Applied Chemistry	Kazuya Yamaguchi
Department of Chemical System Engineering	Kazuhiro Takanabe
Department of Chemistry and Biotechnology	Shinsuke Sando
Department of Advanced Interdisciplinary Studies	Kazuyuki Motohashi
Department of Nuclear Engineering and Management	Kenichi Ishikawa
Department of Bioengineering	Hiroyuki Takahashi
Department of Technology Management for Innovation	Yoshikuni Yoshida
Nuclear Professional School	Shuichi Hasegawa
Undergraduate Department Chairs	
Department of Civil Engineering	Yoshimitsu Tajima
Department of Architecture	Tetsuya Sakuma
Department of Urban Engineering	Tsuyoshi Fujita
Department of Mechanical Engineering	Fumihito Arai
Department of Mechano-Informatics	Shoji Takeuchi
Department of Aeronautics and Astronautics	Kimiya Komurasaki
Department of Precision Engineering	Yasuhiro Ito
Department of Information and Communication Engineering	Hiroyuki Morikawa
Department of Electrical and Electronic Engineering	Ken Takeuchi
Department of Applied Physics	Kyoko Ishizaka
Department of Mathematical Engineering and Information Physics	Makoto Naruse
Department of Materials Engineering	Eiji Abe
Department of Applied Chemistry	Kazuya Yamaguchi
Department of Chemical System Engineering	Kazuhiro Takanabe
Department of Chemistry and Biotechnology	Shinsuke Sando
Department of Systems Innovation	Hiroshi Okuda

Directors of Departmental Institutes	
Institute of Engineering Innovation	Naoya Shibata
Institute for Innovation in International Engineering Education	Yuji Suzuki
Research Center for Water Environment Technology	Satoshi Takizawa
Quantum-Phase Electronics Center	Yoshihiro Iwasa
Frontier Research Center for Energy and Resources	Yoshihiro Masuda
Photon Science Center	Masato Koashi
Medical Device Development and Regulation Research Center	Kouhei Tsumoto
Resilience Engineering Research Center	Yasumasa Fujii
Center for Spintronics Research Network	Masaaki Tanaka
Research into Artifacts, Center for Engineering	Hajime Asama
Systems Design Lab	Tadahiro Kuroda
Campus Management Research Center	Koichi Kato
Administrative Division	
General Manager	Akira Sakurai
Manager, Academic Affairs Group	Junko Asahara
Manager, International Affairs Group	Akiko Kakuta
Manager, Information Library Group	Megumu Hosokawa
Manager, General Affairs Group	Katsunobu Hoshi
Manager, Finance Group	Masanori Shitomi
Manager for Coordination, the Graduate School of Information Science and Technology	Takeshi Yamada

### (3) Graduate Departments

#### Department of Civil Engineering

The Department of Civil Engineering cultivates talented individuals who can take a leadership role in development and management of civil infrastructure with a broad, international perspective integrating nature, history, and culture. The department covers various fields such as geotechnics, structures, materials, hydrology, river, coast, environment, energy, disaster prevention, land planning, landscape, urban systems, transportation, management, and international projects. Within a dynamically changing society, suffering from various problems such as natural disasters and the pandemic outbreak of virus infections, the department contributes to the sustainable development of our society through exploring and improving the field of civil engineering, advancing innovative and cutting edge research activities, and deepening and systemizing developed technologies and knowledge.



Website  
in Japanese



Website  
in English



Experiment on concrete

#### Department of Architecture

The Department of Architecture is committed to building new approaches to learning and aims to create spaces and environments suitable for maturing societies in a new age. This is achieved by integrating wide-ranging knowledge: from scientific, engineering, and technological fields to the humanities, social, and artistic domains. The Department aims to develop specialists who can shoulder the responsibilities of architecture-related research, development, planning, design, production, management, and policy recommendations. Moreover, contributions to sustainability and societal growth are of the utmost importance; as such, the Department addresses the challenges of research geared toward creation of new value and global technological innovations.



Website  
in Japanese



Website  
in English



Sketch critique amid architectural models

#### Department of Urban Engineering

The Department of Urban Engineering develops experts with demonstrable, real-world applicable knowledge in urban planning, urban design, urban transportation planning, urban analysis, urban environmental engineering, urban water systems, international urban environments, environmental design, urban management, and more. Moreover, the Department aims to contribute to sound, sustainable development of national land and local communities from a global viewpoint while maintaining consideration for the diversity of local climates and social cultures.



Website  
in Japanese



Website  
in English



Creation of a sustainable city through diverse approaches

#### Department of Mechanical Engineering

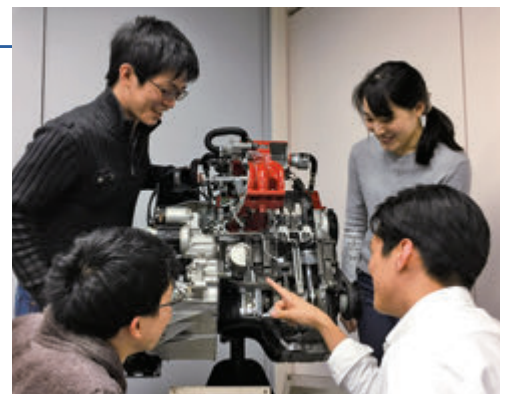
The Graduate School of Engineering's Department of Mechanical Engineering is committed to conducting research in the diverse fields of mechanical engineering, stemming from the essential knowledge acquired in the undergraduate course centered on mechanical dynamics, material mechanics, fluid dynamics, and thermodynamics. Both fundamental and applied research topics are encompassed in the directions of environment and energy, biomedical design and production, and system engineering. Moreover, by providing educational programs based on research activities of advanced science, the Department aims to nourish extraordinary engineers and researchers who can contribute to the development of global civilization and culture and the creation of a safe society, ensuring healthy and fulfilling lives for people.



Website  
in Japanese



Website  
in English



Students having a discussion in front of a cut model of an automobile engine

## Department of Precision Engineering

Robot technology (RT) and production technology (PT) are driving forces that can change the future. The two have seen significant developments and have become deeply intertwined technological fields that are paving the way in precision engineering. At the Department of Precision Engineering, students are provided with specialized education (from fundamental knowledge to real-world application). As a quick response to social changes and needs, we carry out a wide range of education and research, from the development of production technology and next-generation biomedical equipment using advanced devices as well as system designs and robot development using machine learning and AI for the implementation of these in society.



Website  
in Japanese



Website  
in English



Mobile robot developed using precision RT

## Department of Systems Innovation

We live in a globalized, massive, and highly complex system with various imminent issues. While a multifaceted and holistic view is essential to solving inherent problems, a traditional engineering approach of qualifying and analyzing essential elements is still fundamental. Thus, their appropriate combination is crucially important. In the Department of Systems Innovation, you will experience and observe purpose-driven research of various fields and study the common structures hidden in the problem-solving processes, significantly increasing your ability to open new ideas and foster innovation.



Website  
in Japanese



Website  
in English



Conceptual illustration of systems innovation in a complex, advanced society

## Department of Aeronautics and Astronautics

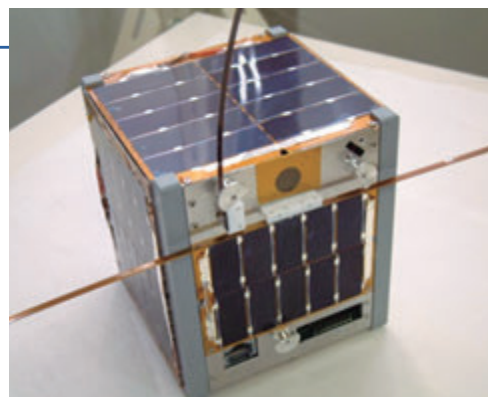
The Department of Aeronautics and Astronautics pursues both the conspicuous and the unrealized significance and possibilities in the worlds of aeronautics and astronautics, conducting research and providing education such that discoveries can be proactively applied for the well-being of humanity. Moreover, the Department aims to create a new field of engineering and to develop leading-edge technologies and knowledge that can be applied to other disciplines. To this end, the Department will foster system integration for missions in aerospace and promote practical research and education. Through such activities, the Department aims to develop leaders in the fields of aeronautics and astronautics and contribute to societal progress.



Website  
in Japanese



Website  
in English



World's first successfully launched 1-kilogram satellite

## Department of Electrical Engineering and Information Systems

The Department of Electrical Engineering and Information Systems aims to create and develop new disciplines that fuse aspects of physics (focusing on electromagnetism and quantum physics) with aspects of information science. To achieve this goal, the Department offers research and education related to energy, the environment & aerospace, nanophysics & devices, and information & communications. Technologies such as brain-like LSI and highly advanced sensing devices are core technologies for space exploration, electric vehicle development, increasing capacities for electricity transport, AI & IoT, and self-driving cars. Students research the design and control of this invisible world of electronics and information. The Department aims to develop the next generation of unique leaders, i.e., individuals of international genius who are creative and highly specialized and have a broad perspective.



Website  
in Japanese



Website  
in English



An electric vehicle utilizing dynamic wireless power transfer from coils buried in the road to the vehicle's in-wheel motor.



## Department of Applied Physics

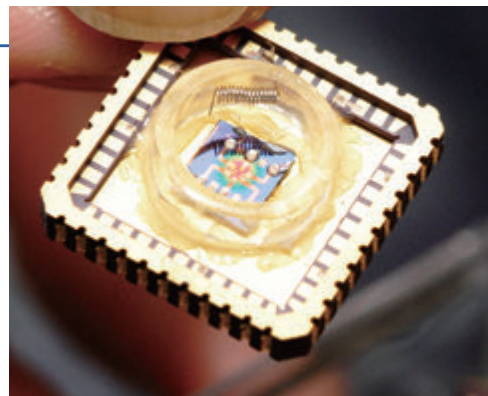
People who understand the fundamentals of science and are driven to take on the challenges of solving new problems are in demand in every discipline. The Department of Applied Physics is committed to developing world leaders who can apply their expertise in physics, think independently, and venture into unexplored fields. Moreover, the Department aims to research advanced topics in the field of physics and make use of the results for society and industry.



Website  
in Japanese



Website  
in English



Do you have any ideas that can change the world?

## Department of Materials Engineering

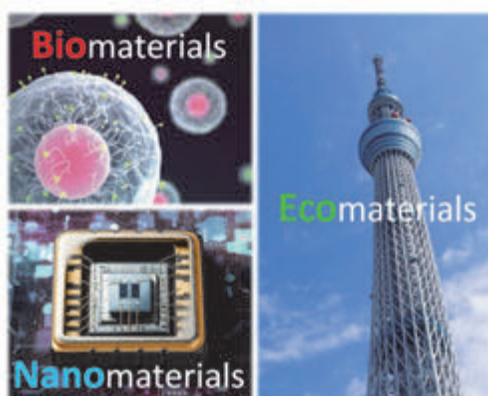
The Department of Materials Engineering aims to lead research in unexplored fields of materials engineering, which fundamentally supports the various activities of people everywhere. Our goal is to make breakthroughs in the materials field to help solve the issues and difficult problems faced by modern society regarding the environment, energy, information & communication, and medical care, thereby eventually contributing to the sustainable development and well-being of humanity. The Department is developing international-caliber, next generation leaders who have unique ideas by providing students with opportunities to gain highly advanced knowledge in the field, all while fostering world-leading research and development in addition to a fundamental knowledge of materials.



Website  
in Japanese



Website  
in English



Societies can be supported by newly created materials in a variety of ways

## Department of Applied Chemistry

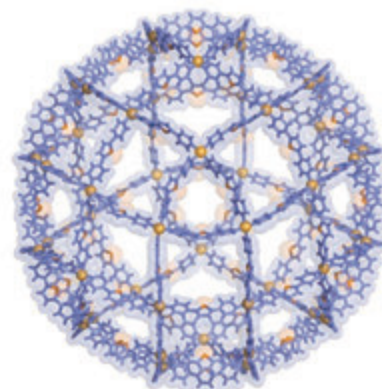
The Department of Applied Chemistry's ultimate goal is to contribute to the sustainable development of humanity and the global environment through the creation of new chemistry-based fields and technologies. While promoting world-leading research, the Department aims to develop specialists who have wide-ranging knowledge of fundamentals, advanced expertise in applied chemistry, and can lead R&D in a variety of fields.



Website  
in Japanese



Website  
in English



Nanoscale huge, hollow molecule synthesized via self-assembly

## Department of Chemical System Engineering

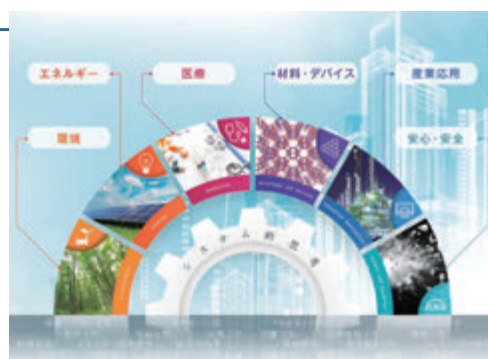
Department of Chemical System Engineering fosters chemical engineers and researchers who have acquired the methodology of chemical system engineering, focusing on (1) the analysis and control of chemical phenomena at every scale from molecular to planetary, and (2) the design and systemization of these components. The department uses these methodologies to promote research projects aimed at solving social issues in fields such as the environment, energy, medical care, materials and devices, industrial applications, and safety and security of society, and to contribute to the development of a sustainable society.



Website  
in Japanese



Website  
in English



Bridging Chemical Knowledge to Society

## Department of Chemistry and Biotechnology

The Department of Chemistry and Biotechnology develops professionals who, by specializing in a wide range of fields such as organic chemistry, polymer chemistry, bioscience, and molecular biology, can create new fields by integrating chemistry and life sciences. Moreover, the Department aims to develop technologies that can make major contributions to society through the use of chemistry and biology by producing beneficial chemical reactions, elucidating life phenomena, and improving biological systems.



Website  
in Japanese



Website  
in English



Chemistry and Molecular biology

## Department of Advanced Interdisciplinary Studies

The Department of Advanced Interdisciplinary Studies provides education and research guidance on fundamental and applied research (both emerging and world-leading) in a range of fields relating to advanced scientific technology, including social science and barrier-free social systems. The Department also provides graduate courses for mature students who are in full-time employment. Through its courses for graduate education and research, the Department aims to develop not only unique and creative researchers in the advanced scientific fields but also specialists in international research, business management, and advanced interdisciplinary policymaking.



Website  
in Japanese



Website  
in English



Providing an interdisciplinary environment for  
a range of researchers

## Department of Nuclear Engineering and Management

The Department of Nuclear Engineering and Management develops specialists who are versed in a range of science and technology fields, have a strong understanding of people and societies, and have systematized knowledge and a systematic way of thinking regarding nuclear safety, energy, and radiation science and their applications. These individuals have an international perspective and can take responsibility for both academic and practical R&D, planning, design, production, management, and policy recommendations for science and its applications. Moreover, the Department aims to develop experts who can proactively take on the challenge of conducting cutting-edge research in unexplored fields and pursue research that can lead to new technological innovations, thus contributing to the sustainability and development of society.



Website  
in Japanese



Website  
in English



Abundant opportunities for international exchange

## Department of Bioengineering

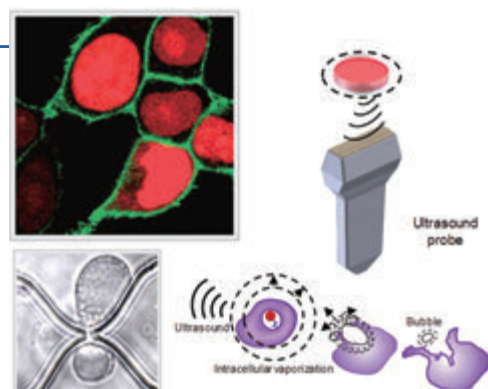
Bioengineering serves as a bridge between the world of science and the fields of health, medical care & welfare, drug creation, the environment, energy, food, nano & biotechnology, safety & security, and information. The Department of Bioengineering is committed to building methodologies for bioengineering for the sustainable development of humanity and promotion of human health and welfare in aging societies with falling birthrates; efforts are based in the existing disciplines of machinery, electricity, physics, chemistry, materials and more. Through its education and research activities, the Department aims to develop specialists who can serve as key players in strategic research and bioengineering development.



Website  
in Japanese



Website  
in English



Development of a new technology to manipulate cells  
physically and chemically

## Department of Technology Management for Innovation

The Department of Technology Management for Innovation develops next-generation leaders who can play a central role in innovation by helping students to gain professional knowledge in three fields: scientific innovation, economics & management, and social systems (as well as in the rapidly developing field of AI). Students will also be supported in gaining the intellectual and creative capabilities to strategically integrate such fields. Moreover, the Department promotes research projects across the fields of smart industry, new energy & systems, management of medical services, and resilience engineering, with the aim of contributing to the realization of Society 5.0 and the SDGs set by the United Nations.



Website  
in Japanese



Website  
in English



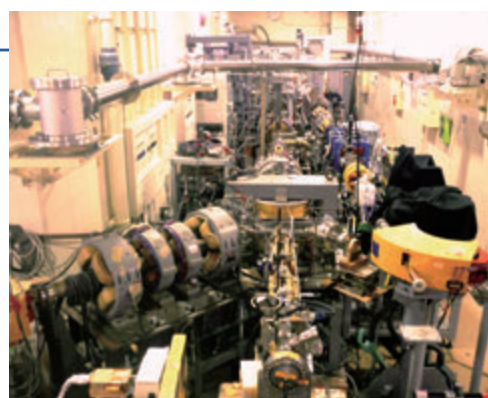
Providing an international learning environment

## Nuclear Professional School

The Nuclear Professional School fosters research in the field of advanced nuclear reactor engineering (including nuclear fusion), decommissioning engineering, advanced laser beam science, and medical physics. Moreover, as the only professional school specializing in the nuclear field in Japan, the School helps students to acquire deep knowledge about safe operation, maintenance, and supervision of nuclear-related facilities, thereby developing engineers with advanced skills who can play leading roles in the nuclear industry and at relevant administrative organizations and R&D institutions.



Website  
in Japanese



LINAC facility where ultra short pulse electron beams are generated

## (4) Undergraduate Departments

### Department of Civil Engineering

The Department of Civil Engineering cultivates talented individuals who can take a leadership role in development and management of civil infrastructure with a broad, international perspective integrating nature, history, and culture. The department covers various fields such as geotechnics, structures, materials, hydrology, river, coast, environment, energy, disaster prevention, land planning, landscape, urban systems, transportation, management, and international projects. Undergraduate students of our department systematically learn various basics in the fields of civil engineering and cultivate practical skills and knowledge applicable to the sustainable development of our dynamically changing society and lives.



Website  
in Japanese



Website  
in English



Field exercise in one of the University of Tokyo Forests

### Department of Architecture

In addition to providing the academic, technical, and artistic knowledge required for planning, structures, and the environment (which includes studies of plans, design, fabrication, and maintenance), the Department of Architecture aims to develop specialists who can utilize their knowledge comprehensively for architectural designs and proposals; individuals who are able to take a broad view and have the creativity to contribute to the sustainable development of society.



Website  
in Japanese



Website  
in English



Sketch critique amid architectural models

### Department of Urban Engineering

The Department of Urban Engineering aims to develop leaders who have systematized knowledge about urban engineering and can contribute to the sound, sustainable development of national land and local communities in the fields of urban planning, urban design, urban transportation planning, urban analysis, urban environmental engineering, urban water systems, international urban environments, environmental design, and urban management.



Website  
in Japanese



Website  
in English



Creation of a sustainable society through diverse approaches

### Department of Mechanical Engineering

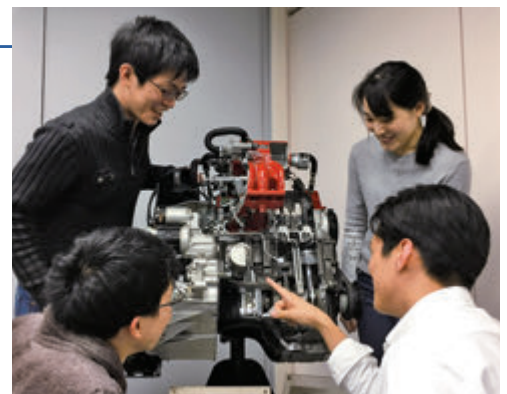
The Department of Mechanical Engineering is tasked with promoting research and education in a range of fields, including the four fundamental disciplines of mechanical engineering: mechanical dynamics, material mechanics, fluid dynamics, and thermodynamics. Moreover, the work of the Department encompasses these fundamentals' fields of application, which range from the environment & energy, to biology and medical treatment. Through research of fundamentals and of applied fields in the domain of advanced science, the Department aims to foster engineers and researchers who can lead the development of new technologies.



Website  
in Japanese



Website  
in English



Students having a discussion in front of a cut model of an automobile engine

## Department of Mechano-Informatics

The Department of Mechano-Informatics is committed to developing the next generation of leaders and researchers; individuals with precise thinking who can take a global view in order to develop theories and systems to connect people, machines, and information. To this end, the Department provides students with opportunities to better understand people and create tangible objects through studies of informatics and mechanical engineering. Through these efforts, the Department works to develop specialists who have practical knowledge and hands-on experience with mechano-informatics.



Website  
in Japanese



Understanding people to create robots  
Creating robots to deepen our understanding of people

## Department of Aeronautics and Astronautics

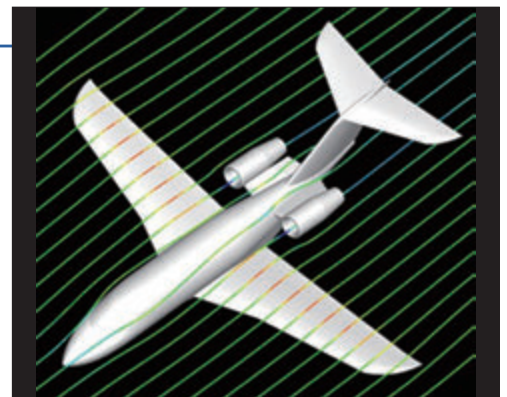
The Department of Aeronautics and Astronautics fosters education and research in the field of system integration and system engineering. Specifically, the Department educates students on the four primary topics (hydrodynamics, mechanical & structural dynamics, control engineering, and thermodynamics) that represent the fundamental technologies used for aircraft and their engines, rockets, and artificial satellites. Students will also learn how to combine these fundamental technologies to create and operate reliable systems. The advanced technologies applied for systems operations in extreme conditions can also be applied to other fields.



Website  
in Japanese



Website  
in English



Computer-based flow simulation

## Department of Precision Engineering

The Department of Precision Engineering provides students with a wide range of knowledge on the fundamentals of robot technology (RT) and production technology (PT) in the fields of materials, processing, machinery, electricity, and systems. With studies based in these two fundamental technologies, the Department fosters education and research on precision processing and measurement, synthesis of intelligent machines, systematization of information and knowledge for products and product manufacturing, biomedical devices, and service robots.



Website  
in Japanese



Website  
in English



Advanced nano-machining and measurement system

## Department of Information and Communication Engineering

The Department of Information and Communication Engineering develops specialists who advance existing technologies and create new technologies in various fields of electronics such as computer and information processing (hardware and software), information networking, communication systems, media and signal processing, and intelligent information processing. The Department also has a program that enables undergraduate students to go abroad and give presentations on their research and achievements.



Website  
in Japanese



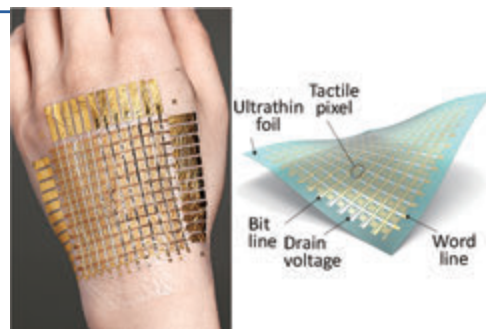
"EmiTable", a table-type display that reveals hidden light signals as visible pixel units.

## Department of Electrical and Electronic Engineering

The Department of Electrical and Electronic Engineering is engaged in the field of physics focusing on electromagnetism and quantum physics but is also promoting its research activities in a wide range of fields related to information science. The research fields of the Department include 1) nanophysics, photons, and biotechnology, 2) energy, the environment and space; and 3) system electronics. The Department is developing next-generation leaders who can create new technologies in the aforementioned fields and demonstrate their capabilities on a global scale.



Website  
in Japanese



Touch sensors made with the world's lightest, thinnest and softest electronic circuits.

## Department of Applied Physics

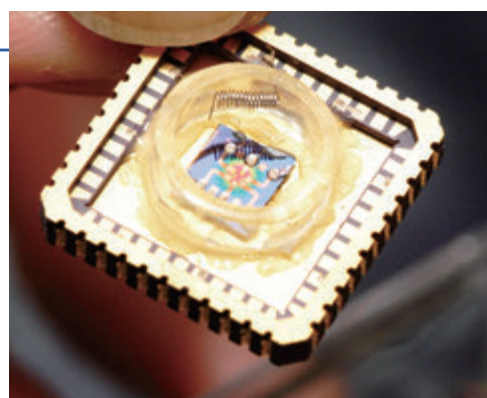
Physics is a field of study which examines methods of approaching the unknown. The Department of Applied Physics aims to develop specialists who can use the fundamental and advanced knowledge gained through their studies to create new academic and industrial fields.



Website  
in Japanese



Website  
in English



Do you have any ideas that can change the world?

## Department of Mathematical Engineering and Information Physics

The Department of Mathematical Engineering and Information Physics pursues engineering that promotes the welfare of humanity based on knowledge of mathematics, physics, and information science. In particular, the Department aims to create basic ways of thinking, universal principles, and systematic methodologies to help solve a variety of issues in a range of fields (beyond specific industries) and to develop specialists who can explore the array of new possibilities provided by engineering.



Website  
in Japanese



Website  
in English



Education on systems and mathematical engineering at the Department

## Department of Materials Engineering

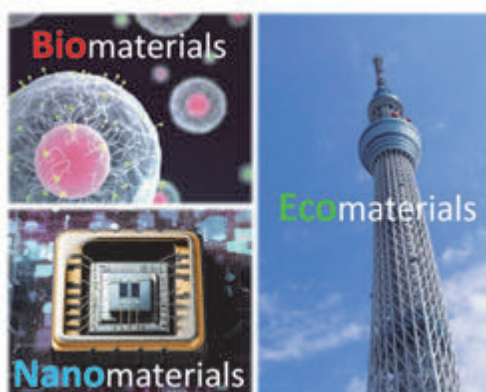
Materials engineering supports various human activities relating to areas such as the environment, energy, information and communication, and medicine. Our department aims to develop specialists who can contribute to the sustainable advancement of human society by providing systematic learning on materials science and engineering from basics to application and by cultivating the R&D ability to create new materials. To this end, we have established three courses: (1) Biomaterials, (2) Ecomaterials, and (3) Nanomaterials, aiming to develop the next generation of leaders with a broad perspective through comprehensive and international education and practical training in all material fields.



Website  
in Japanese



Website  
in English



Societies can be supported by newly created materials in a variety of ways

## Department of Applied Chemistry

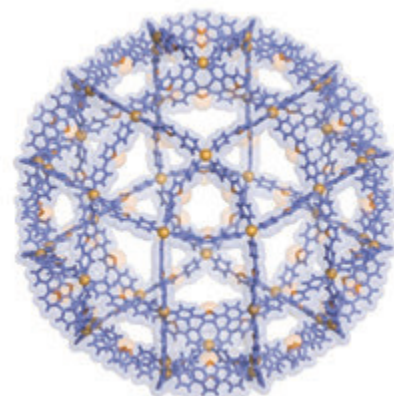
The Department of Applied Chemistry's ultimate goal is to contribute to the sustainable development of humanity and the global environment through the creation of new chemistry-based fields and technologies. To this end, the Department provides students with opportunities to learn basic chemistry in a systematic manner, including physical chemistry, quantum chemistry, inorganic chemistry, organic chemistry, and analysis chemistry (as well as how to conduct advanced, comprehensive research in graduate school). The Department thereby develops specialists who can contribute to the development of advanced knowledge and next-generation technologies.



Website  
in Japanese



Website  
in English



Nanoscale huge, hollow molecule synthesized via self-assembly

## Department of Chemical System Engineering

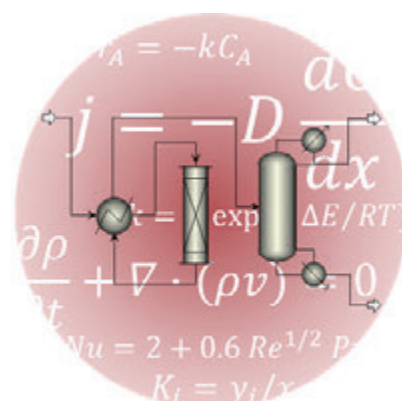
The Department of Chemical System Engineering develops chemical system engineers and researchers capable of building and analyzing macro-scale systems through chemistry-based development of materials (on atomic and molecular levels) and through control of chemical reactions. At the same time, the Department aims to develop specialists who can apply their knowledge to work toward creation a sustainable society through solving social issues related to the environment, energy, medical care, and safety & security.



Website  
in Japanese



Website  
in English



Simulation-based chemical process design

## Department of Chemistry and Biotechnology

The Department of Chemistry and Biotechnology aims to develop technologies that make significant contributions to society in the fields of both chemistry and biotechnology. To this end, the Department provides students with opportunities to systematically gain knowledge across a range of academic fields, including organic chemistry, polymer chemistry, life science, and molecular biology. Students also learn how to conduct comprehensive, advanced research in graduate school. The Department aims to develop specialists who can contribute to the development of next-generation technologies.



Website  
in Japanese



Website  
in English



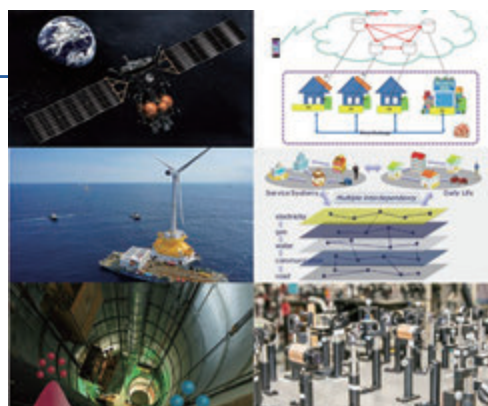
Chemistry and Molecular biology

## Department of Systems Innovation

The modern social problems we are facing are complex and hard to be solved with the science and engineering knowledge of the twentieth century. That is why the Department of Systems Innovation is preparing experts able to solve problems from a higher perspective by integrating science and engineering knowledge with social sciences, as well as incorporating the recent advancement in technology, in order to find answers to some basic questions such as: "What are the future needs of our society?", or "What can be created or designed to fulfill those future demands?". Our department has abolished the old-style teaching method of just transferring knowledge, and instead we have put emphasis on PBL (Project Based Learning). The ultimate aim is to help students acquire specific knowledge (i.e. facts, principles, techniques, etc.) and also to learn how to use them.



Website  
in Japanese



Contents of Global Systems Innovation

## (5) Departmental Institutes

### Institute of Engineering Innovation

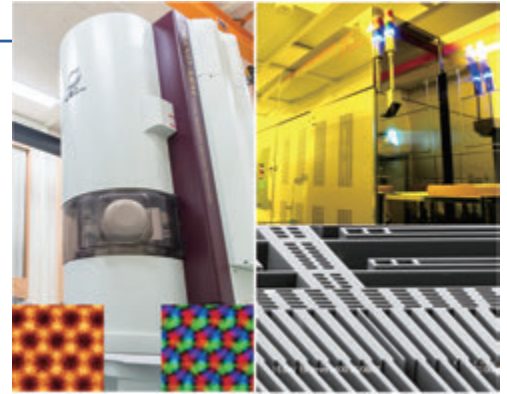
Under the leadership of the Dean of School of Engineering, the Institute fosters the following: strategic research for the creation of new scientific fields; large projects that contribute to the School of Engineering; collaborative programs between industries and the University; and the associate professor program for conducting new frontier research (designed for the education of outstanding young faculty members). Moreover, the Institute is in charge of the maintenance of basic technologies shared across the School of Engineering. It supports the use of a range of world-leading analysis and fabrication equipment both inside and outside the university (through a nationwide system for shared use).



Website  
in Japanese



Website  
in English



The world's highest performance electron microscope and super-clean room

### Institute for Innovation in International Engineering Education

The Institute was established as a part of the School of Engineering in April 2011 in order to build a foundation for international education and research in the field of engineering, to gather excellent students and faculty from inside and outside Japan, and to promote international collaboration in education. The Institute aims to enhance the University's international attractiveness as a world-leading university and anticipate the future of Japan as a technology-oriented country. It includes the Division of Engineering Education, Division of Global Education, Division of International Cooperation and Exchange, Division of Interdisciplinary Research and Division of Creative Activity.



Website  
in Japanese



Website  
in English



Tea party organized by international students

### Research Center for Water Environment Technology

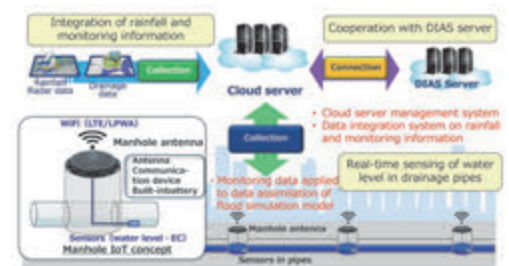
In an effort to respond to various social needs in an environment-oriented society, this Research Center fosters research to develop advanced water environment management systems by fusing and linking fundamental and applied sciences. The center promotes frontier research to become a transdisciplinary and flexible core hub in the field of water engineering. The major fields are: water quality control technologies and development of new materials, upgrading of sewer infrastructure with IoT-sensing technologies and water system management such as urban inundation risk management, and international water environment issues related to water and sanitation.



Website  
in Japanese



Website  
in English



Water level-sensing IoT technology in sewer pipes for urban inundation risk management and control

### Quantum-Phase Electronics Center

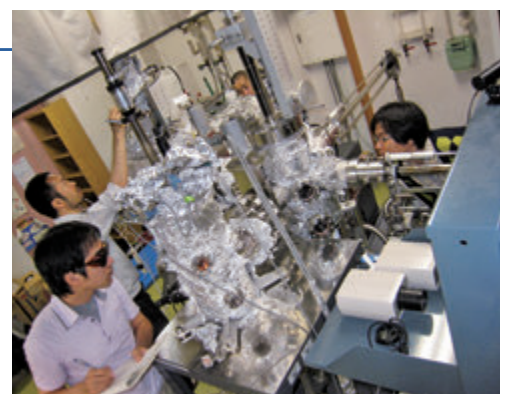
The Quantum-Phase Electronics Center develops innovative principles for materials science for superefficient energy conversion and super energy-saving electronics, which are essential for the creation of a sustainable society. The Center conducts experiments and research on strongly correlated quantum matter to propose new principles for electronic technologies based on the emergence of quantum matter (such as Mottronics, topological electronics and skyrmionics) and performs tests to establish the principles.



Website  
in Japanese



Website  
in English



Who will be the next technological innovator?



## The Frontier Research Center for Energy and Resources

The Frontier Research Center for Energy and Resources aims to create innovative and environment-friendly technologies to ensure a stable supply of energy and mineral resources. The Center also aims to develop novel technologies and systems for discovering and exploring frontier resources in deep sea and in space. In particular, the Center focuses on advanced research activities such as: 1) oil and natural gas development and CCS (Carbon dioxide Capture and Storage) for environmental harmonization, 2) development of seafloor methane hydrate around Japan, 3) exploration and development of seafloor mineral resources in the Japanese exclusive economic zone, and 4) creation of resources through artificial processes.



Website  
in Japanese



Website  
in English



Survey on rare-earth elements and yttrium (REY)-rich mud conducted near Minamitorishima Island using a piston corer

## Photon Science Center

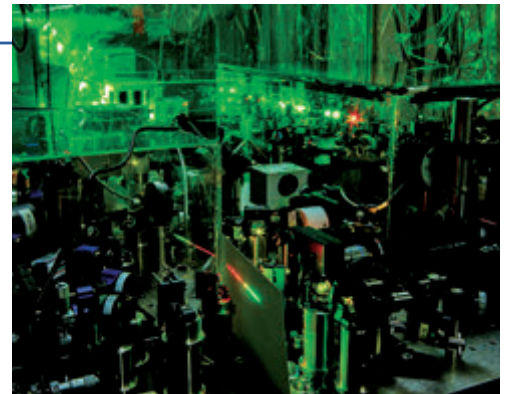
The Photon Science Center was established with the aim of becoming an international center for optical science research and education. The Center is committed to building principles and technologies for modern optical science. It fosters doctoral education and supports young researchers. In particular, the Center aims to create innovative technologies to generate, manipulate, and utilize light waves and photons.



Website  
in Japanese



Website  
in English



Laser light source used to measure and control the world of photons at extremes

## Medical Device Development and Regulation Research Center

Because technologies used in medical care and welfare devices affect human health, their risks and benefits need to be scientifically analyzed at the R&D stage to maximize benefits while minimizing risks. The Center conducts research on technologies for new medical care and welfare devices as well as on the methods for the scientific evaluation of the devices' performance and safety. The Center works toward early clinical use of the research results obtained at the School of Engineering for advanced medical care and welfare.



Website  
in Japanese



Research on a minimally invasive surgery support system in a medical technology evaluation laboratory

## Resilience Engineering Research Center

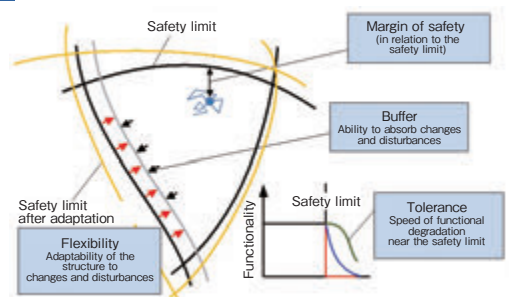
New ideas for risk management are needed in a variety of fields, and the concept of resilience (which refers to a system's ability to maintain regular conditions by minimizing the influence of external disturbances or internal changes to its overall functionality) is drawing attention. The Center fosters education and research on principles and methodologies with the aim of creating resilient systems.



Website  
in Japanese



Website  
in English



System features related to resilience

## Center for Spintronics Research Network

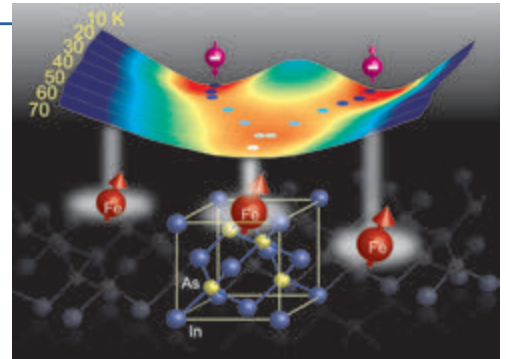
Spintronics is an interdisciplinary research field in which materials, devices, and systems are developed by introducing spin degrees of freedom to electronics and information processing. The field has been rapidly developing in terms of both scientific and applied technologies, and the dramatic development of new energy-saving ICT is expected. The Center was established to build a nationwide network of researchers and bring their abilities together to foster innovation and make contributions to society.



Website  
in Japanese



Website  
in English



Creating innovative new substances, nanostructures, and/or devices with spin features and functions

## Research into Artifacts, Center for Engineering

Artifactology is a new discipline for the development of methodologies and their systemization for next-generation manufacturing (including services) and value creation, in order to solve the various modern societal issues and realize a sustainable society. In this center, we promote the dissemination of artifactology to society by industry-academia-government co-creation, new fundamental research for next-generation manufacturing, and human resources development through these activities, by three research divisions on Value Creation, Cognitive Mechanism, and Applied Intelligence.



Website  
in Japanese



Website  
in English



Simulation of part assembly by a robot, which is one of the efforts to solve problems in manufacturing

## Systems Design Lab

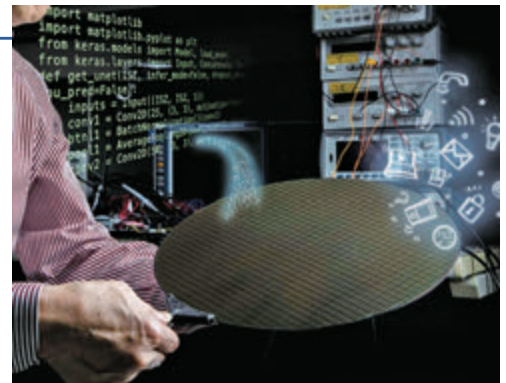
The knowledge-intensive society is arriving. When the core of value shifts from products to services, what will happen to the manufacturing industry? Seeking the answer to this question is the mission of the (d.lab) laboratory. From the perspective of creating solutions, d.lab aims to rebuild the design methodology and manufacturing ecosystem so that anyone with a system idea can immediately obtain a dedicated chip. We create data-driven system design platforms and develop human resources who can play an active role in a data-driven society.



Website  
in Japanese



Website  
in English



Chips are created with a silicon compiler, according to how the software is written.

## Campus Management Research Center

In the future society of the 21st century, management studies that differ from conventional architectural studies will be required. This center will promote the conservation and renewal of facilities, the utilization of historical spatial resources, and the use of information and communication technologies for the buildings on the University of Tokyo campus. While mutually developing the three perspectives of Facility Management (FM), Property Management (PM), and Information Management (IM), we will promote research, education, and practice with the goal of creating an ideal university space suitable for the future society.



Website  
in Japanese



The Dream Lecture Room: A Plan for Realization

## 4. Number of Faculty and Staff Members

(As of May 1, 2021)

Number of faculty members																		Total
Professor		Associate Professor		Lecturer		Assistant Professor		Research Assistant		Project Professor		Project Associate Professor		Project Lecturer		Project Assistant Professor		
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
159	8	118	7	36	2	124	7	2	2	13	0	21	4	14	4	46	11	578

Number of staff				Total
Administrative Division		Technical Division		
M	F	M	F	
58	74	68	16	216

Department	Number of faculty members										Total
	Professor	Associate Professor	Lecturer	Assistant Professor	Research Assistant	Project Professor	Project Associate Professor	Project Lecturer	Project Assistant Professor		
Department of Civil Engineering	11	6	4	7			1	3			32
Department of Architecture	11	8		7		1	1	2			30
Department of Urban Engineering	6	9	3	3			2	4			29
Department of Mechanical Engineering	11	9	5	11		1	1	3	8		49
Department of Precision Engineering	6	6		4			1	5			22
Department of Systems Innovation	14	13	2	9			1	39			39
Department of Aeronautics and Astronautics	11	7		6			4	28			28
Department of Electrical Engineering and Information Systems	15	7	3	3		1	1	1	3		34
Department of Applied Physics	9	5	7	17							38
Department of Materials Engineering	10	10	3	7		1		1			32
Department of Applied Chemistry	6	5	1	11		1	1	1	2		28
Department of Chemical System Engineering	6	1	1	7		1		4			20
Department of Chemistry and Biotechnology	5	4	2	11			1	1			24
Department of Advanced Interdisciplinary Studies	2		1	1							4
Department of Nuclear Engineering and Management	4	2		1			1	2			10
Department of Bioengineering	6	3	2	2			3	1	9		26
Department of Technology Management for Innovation	4	4		1				2	3		14
Nuclear Professional School	4	5		4	1	1	1	1			17
Institute of Engineering Innovation	1	1									2
Institute for Innovation in International Engineering Education	3	1		4			2	1			11
Research Center for Water Environment Technology	4	5		8	1	3	4	3	5		33
Quantum-Phase Electronics Center	2		1	1							4
Frontier Research Center for Energy and Resources	1	1		2		1		1			6
Photon Science Center	4	3	1	1	2		2	3			16
Medical Device Development and Regulation Research Center	1		1								2
Resilience Engineering Research Center	1	3									4
Center for Spintronics Research Network		2									2
Research into Artifacts, Center for Engineering	5	2		1		1					9
Systems Design Lab.	3	2	1	2		1		2			11
Environmental Health and Safety Office	1	1									2
<b>Total</b>	<b>167</b>	<b>125</b>	<b>38</b>	<b>131</b>	<b>4</b>	<b>13</b>	<b>25</b>	<b>18</b>	<b>57</b>	<b>578</b>	

Administrative/ Technical Division	Total
General Manager	1
Academic Affairs Group	45
International Affairs Group	9
Information Library Group	11
General Affairs Group	31
Finance Group (with 3 technical staff member)	34
Manager for Coordination, the Graduate School of Information Science and Technology	1
<b>Subtotal</b>	<b>132</b>
<b>Technical Division</b>	<b>84</b>
<b>Total</b>	<b>216</b>

## 5. Student Data

### (1) Number of Undergraduate Students and Research Students in the School of Engineering (As of May 1, 2021)

Department	Admission Capacity	No. of students			No. of research students			No. of new students			
		M	F	Total	M	F	Total				
Department of Civil Engineering	80	90	18	108					47		
Department of Architecture	120	108	22	130				<2>	59		
Department of Urban Engineering	100	86	28	114				(1)	55		
Mechanical engineering departments		272	20	292				(2)	<1>	144	
Department of Mechanical Engineering	170										
Department of Mechano-Informatics	80										
Department of Aeronautics and Astronautics	104	103	11	114					56		
Department of Precision Engineering	90	86	12	98				(1)	46		
Electronic engineering/information departments		257	31	288				(5)	[1]	140	
Department of Information and Communication Engineering	80										
Department of Electrical and Electronic Engineering	150										
Department of Applied Physics	100	116	2	118				(2)	[1]	59	
Department of Mathematical Engineering and Information Physics	110	122	7	129				(2)		65	
Department of Materials Engineering	150	154	7	161						71	
Department of Applied Chemistry	110	89	7	96	2		2			49	
Department of Chemical System Engineering	100	84	16	100				(1)		47	
Department of Chemistry and Biotechnology	100	74	22	96						41	
Department of Systems Innovation	232	281	20	301				(5)		136	
Total	1,876	1,922	223	2,145	2		2	(19)	<3>	[2]	1,015

\* Admission capacity: From the values in the table added to "Department Regulations Chapter 1, Article 2," the number of undergraduates for the latter half of the curriculum (annual)

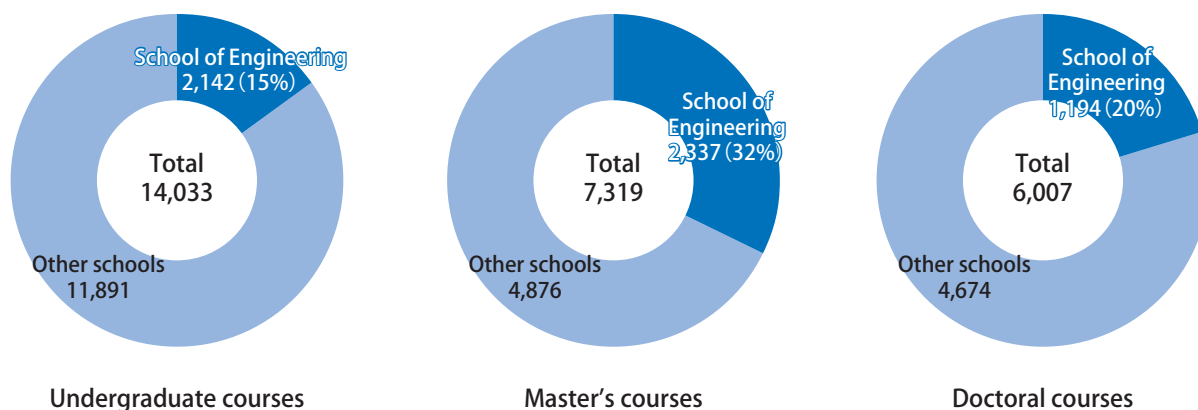
\* The total in the admission capacity column includes second-year students transferred from other departments (10 people x 2 years = 20 people).

\* Regarding the number of new students: students transferred from other colleges or universities are shown in parentheses, students transferred from other departments are shown in brackets, and students entering the department after graduating from other departments, colleges or universities are shown in angled brackets.

### (2) Number of Graduate Students and Research Students in the School of Engineering (As of May 1, 2021)

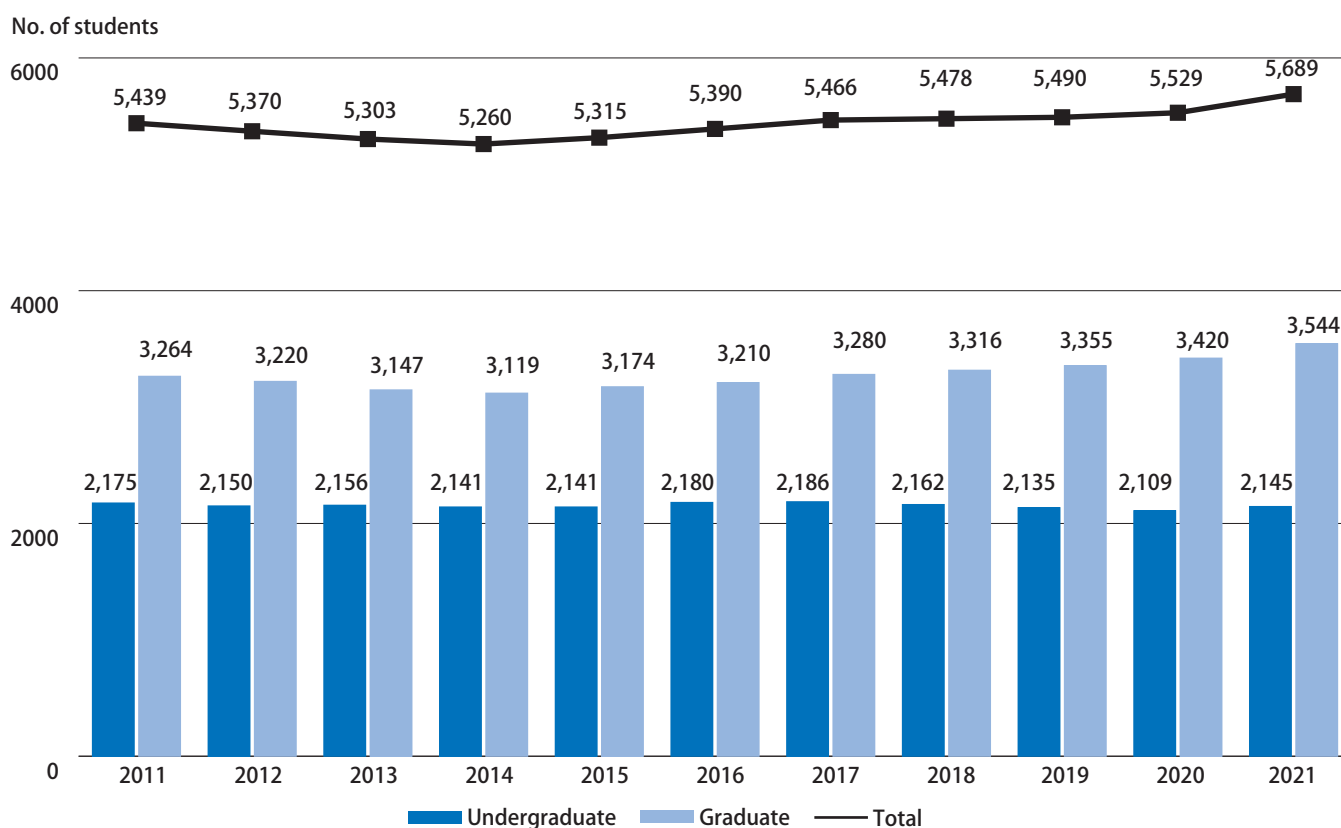
Department	Master's course				Doctoral course				Professional school				No. of foreign research students			No. of research students			No. of new students		
	Admission capacity	M	F	Total	Admission capacity	M	F	Total	Admission capacity	M	F	Total	M	F	Total	M	F	Total	Master's	Doctoral	Professional school
Department of Civil Engineering	104	170	33	203	72	60	26	86											74	11	
Department of Architecture	74	137	74	211	48	74	32	106					2	2	4	1	1	2	83	17	
Department of Urban Engineering	74	117	54	171	33	38	26	64					2	4	6				39	3	
Department of Mechanical Engineering	104	210	26	236	75	106	12	118					6		6	1		1	88	21	
Department of Precision Engineering	54	94	15	109	36	49	14	63					2		2				40	14	
Department of Systems Innovation	90	158	14	172	57	44	9	53					5	2	7	1		1	65	7	
Department of Aeronautics and Astronautics	74	122	10	132	54	65	7	72					1		1				60	11	
Department of Electrical Engineering and Information Systems	140	266	39	305	96	107	12	119					1		1				113	23	
Department of Applied Physics	84	117	5	122	57	61	2	63					2		2	3		3	53	18	
Department of Materials Engineering	90	119	11	130	60	59	9	68					2	2	4	2		2	59	10	
Department of Applied Chemistry	66	103	16	119	39	19	4	23					2		2				62	8	
Department of Chemical System Engineering	56	61	19	80	39	27	8	35					2		2				30	10	
Department of Chemistry and Biotechnology	64	82	30	112	39	40	17	57					1	2	3				52	15	
Department of Advanced Interdisciplinary Studies					138	85	18	103													13
Department of Nuclear Engineering and Management	44	56	9	65	33	31	3	34											19	5	
Department of Bioengineering	58	64	20	84	36	51	19	70						1	1				31	15	
Department of Technology Management for Innovation	35	74	12	86	24	55	5	60					2	5	7				36	7	
Nuclear Professional School									15	12	1	13									13
Total	1,211	1,950	387	2,337	936	971	223	1,194	15	12	1	13	30	18	48	8	1	9	904	208	13

(3) Percentage of Students Enrolled at the School of Engineering at the University of Tokyo (As of May 1, 2021)



(4) Number of Students by Year (As of May 1, 2021) \*Including students attending professional school

Academic year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Undergraduate	2,175	2,150	2,156	2,141	2,141	2,180	2,186	2,162	2,135	2,109	2,145
Graduate	3,264	3,220	3,147	3,119	3,174	3,210	3,280	3,316	3,355	3,420	3,544
Total	5,439	5,370	5,303	5,260	5,315	5,390	5,466	5,478	5,490	5,529	5,689



**(5) Number of Doctoral Graduates (As of March 31, 2021)**

Category	Former system	New system (Doctorate by course of study)		New system (Doctorate by dissertation)		Total	
	Cumulative total	Academic year 2020	Cumulative total	Academic year 2020	Cumulative total	Academic year 2020	Cumulative total
Doctor of Engineering (Awarded before June, 1991)	1,916		2,940		3,202		8,058
Doctor of Philosophy / Doctor of Engineering		254	7,435	21	2,898	275	10,333

**(6) Number of Doctoral Graduates by Year (As of May 1, 2021)**

Academic year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Doctorate by course of study	276	270	276	269	239	245	269	275	258	254
Doctorate by dissertation	41	49	37	36	24	35	38	35	31	21
Total	317	319	313	305	263	280	307	310	289	275

**(7) Paths after Graduation (As of March 31, 2020)**

Path		Undergraduate	Master's	Doctoral	Professional School
Individuals who graduated		995	1,010	316 (*58)	15
Next stage of education	Graduate schools	744	173	7	
	Other undergraduate courses	5	1		
	Specialized training colleges/foreign schools	1	9	1	
	Subtotal	750	183	8	
Employment	Agriculture and forestry		1		
	Fisheries				
	Mining and quarrying of stone and gravel		1		
	Construction	4	65	5	
	Manufacturing	17	276	65	1
	Electricity, gas, heat supply, and water	4	17	3	8
	Information and communications	28	106	7	
	Transport and postal activities	4	15	1	
	Wholesale and retail trade	3	5	1	
	Finance and insurance	8	64		
	Real estate, renting, and leasing	5	13		
	Scientific research and professional/technical services	7	26	74	1
	Accommodations, eating and drinking services	1			
	Living-related and personal services and amusement services	3	4		
	Education and learning support	2	4	22	
	Medical, health care and welfare		4	3	
	Compound services	7	15	1	
	Services (not elsewhere classified)	8	23		
Government, except elsewhere classified	11	30	6		
Other(Industries unable to classify)	7	31	5		
Subtotal	119	700	193	10	
Other		121	127	115	5

\* The numerical figure in parentheses shows the number of students who completed coursework without a degree and is included in the total number.

## 6. International Exchange

### (1) Partner Universities/Institutes with Academic Exchange Agreements (As of May 1, 2021)

Region	Country/Region	University (Institution)	
Asia	India	* Indian Institute of Technology Kharagpur (MOU only)	
		* Indian Institute of Technology Kanpur (MOU only)	
		* Indian Institute of Technology Delhi (MOU only)	
		* Indian Institute of Technology Hyderabad (MOU only)	
		* Indian Institute of Technology Madras (MOU only)	
		◆* Indian Institute of Technology Bombay	
		* Indian Institute of Technology Roorkee	
		* Indian Institute of Management Bangalore	
	Indonesia	* Bandung Institute of Technology (MOU only)	
	Kazakhstan	Faculty of Mechanics and Mathematics, Faculty of Biology, Faculty of Chemistry, Faculty of Physics, Al-Farabi Kazakh National University	
		School of Engineering and Digital Sciences, Nazarbayev University	
	Singapore	College of Engineering, Nanyang Technological University	
	Singapore • China	* School of Design and Environment, National University of Singapore / College of Architecture and Urban Planning, Tongji University / School of Architecture, Tsinghua University	
	Sri Lanka	Faculty of Engineering, University of Moratuwa	
	Thailand	* Faculty of Engineering, Chulalongkorn University	
		* Sirindhorn International Institute of Technology (SIIT), Thammasat University	
		◆* Asian Institute of Technology	
	Vietnam	Coordinating Committee for Geoscience Programmes in East and Southeast Asia	
		* Hanoi University of Science, Vietnam National University, Hanoi (MOU only)	
		Hue University of Sciences	
	Malaysia	Vietnam Academy of Science and Technology, Vietnam National Satellite Center	
	South Korea	Institute of Technology Petronas SDN BHD	
	South Korea	The College of Engineering, the College of Life Science and Bioengineering, Korea Advanced Institute of Science and Technology (KAIST)	
		◆ Sungkyunkwan University	
		South Korea • China	* College of Engineering, Seoul National University / Tsinghua University
			◆ University of Science and Technology of China
		China	◆ Tsinghua University
			◆ Zhejiang University
			Central South University
			Chongqing University
			Xi'an Jiaotong University
			* Dalian University of Technology
Tianjin University			
* Graduate School of Tongji University			
Southeast University			
Beijing University of Chemical Technology			
* Beijing Jiaotong University			
* College of Chemical Engineering, Fuzhou University			
North China Electric Power University			
* Faculty of Construction and Environment, the Hong Kong Polytechnic University			
Taiwan	College of Design, College of Engineering, National Taipei University of Technology		
	College of Design, College of Engineering, National Taiwan University of Science and Technology		
	College of Electrical Engineering and Computer Science, National Cheng Kung University		
	Industrial Technology Research Institute		
	College of Technology Management, National Tsing Hua University		
	* College of Engineering, National Taiwan University (MOU only)		
	Asia University (Taiwan)		
	College of Engineering, Chung Yuan Christian University		
	National Applied Research Laboratories of Taiwan, R.O.C		
	* College of Science • College of Engineering, National Sun Yat-sen University		
Myanmar	Yangon Technological University		
Oceania	Australia	* Royal Melbourne Institute of Technology (RMIT)	
		Division of Information Technology, Engineering and the Environment, University of South Australia	
	* Science and Engineering Faculty, Queensland University of Technology		
New Zealand	* The College of Engineering, The University of Canterbury		
Middle East	United Arab Emirates	The Petroleum Institute, Abu Dhabi	
		College of Engineering, Khalifa University of Science, Technology and Research	
		Faculty of Engineering Technology, Higher Colleges of Technology	
		* Masdar Institute of Science and Technology (MOU only)	
		United Arab Emirates University	
	College of Engineering, Abu Dhabi University		
	Saudi Arabia	King Abdullah University of Science and Technology (KAUST)	
		Princess Nourah Bint Abdulrahman University	
	Turkey	* Faculty of Engineering, Middle East Technical University	
	◆* Istanbul Technical University		
Central and South America	Colombia	Faculty of Engineering, Antioquia University/ Faculty of Architecture, La Salle University/ Faculty of Arts and Institute of Technological Investigations, National University of Columbia/ Faculty of Architecture and Arts, Piloto de Colombia University/ Faculty of Architecture, Pontificia Bolivariana University/ Faculty of Architecture and Design, University of Los Andes	
	Brazil	◆ The University of São Paulo	
◆ Federal University of Pernambuco			
North America	United States of America	* Massachusetts Institute of Technology	
		The University of Washington College of Engineering (Seattle)	
		Clemson University	

Region	Country/Region	University (Institution)	
North America	United States of America	◆ Rice University	
		* University of California (MOU only)	
		Eli and Edythe Broad CIRM Center for Regenerative Medicine and Stem Cell Research, the University of Southern California	
		Harvard School of Dental Medicine	
		Massachusetts General Hospital	
Canada		◆ University of Toronto	
		McMaster University	
United Kingdom		◆ University of Essex	
		Business School and Department of Geography, Durham University	
		School of Engineering, Cardiff University	
		Department of Engineering, University of Cambridge	
		National Oceanography Centre	
Italy		◆* Politecnico di Torino	
		◆ National Institute for Nuclear Physics	
		* Politecnico di Milano	
		* L'Istituto di BioRobotica, Scuola Superiore di Studi Universitari ed di Perfezionamento Sant'Anna	
Austria		* Vienna University of Technology	
		* Graz University of Technology	
The Netherlands		* Faculty of Mechanical, Maritime and Materials Engineering, Delft University of Technology	
		* University of Twente	
Switzerland		◆* Swiss Federal Institute of Technology Lausanne (EPFL)	
Europe	Sweden	* Chalmers University of Technology	
		◆ Lund University	
		* Luleå University of Technology	
		* The Institute of Technology, Linköping University	
		* The Swedish Governmental Agency for Innovation Systems (VINNOVA)	
		* KTH Royal Institute of Technology	
	Spain		* School of Architecture, Technical University of Madrid
			* Universitat Politècnica de València
	Denmark		* Technical University of Denmark
	Germany		* Technical University of Munich
			* University of Stuttgart
			* Karlsruhe Institute of Technology
			Department of Microsystems Engineering, Albert-Ludwigs-University Freiburg
			Faculty of Biology, Albert-Ludwigs-University Freiburg
			* Darmstadt University of Technology
			* Faculty of Engineering, Friedrich-Alexander University Erlangen-Nuremberg
			* Faculty of Mathematics, Computer Science and Natural Sciences, Faculty of Architecture, Faculty of Civil Engineering, Faculty of Mechanical Engineering, Faculty of Georesources and Materials Engineering, and Faculty of Electrical Engineering and Information Technology, RWTH Aachen University
			* Ulm University
			* Faculty of Civil Engineering, the Bauhaus-Universität Weimar
	* Brandenburg University of Technology Cottbus-Senftenberg		
Norway		◆* Norwegian University of Science and Technology (NTNU)	
Finland		* School of Chemical Engineering, School of Electrical Engineering, School of Engineering, School of Science, Aalto University (former Helsinki University of Technology)	
France		◆ École Polytechnique	
		* Centrale Supélec (former École Centrale Paris)	
		* IMT Atlantique (former École des Mines de Nantes)	
		* National Institute of Applied Sciences of Lyon (INSA Lyon)	
		* Sorbonne University (former University Pierre et Marie Curie)	
		* École des Ponts ParisTech (ENPC)	
		* École des Mines de Paris	
		* Institut Supérieur de l' Aéronautique et de l' Espace (ISAE)	
		* École Centrale de Lyon	
		* French Civil Aviation University (ENAC)	
		École Nationale Supérieure d' Architecture de Paris la Villette	
		* University of Technology of Troyes	
		* Université Savoie Mont Blanc	
		* École Normale Supérieure Paris-Saclay	
		* University of Technology of Compiègne	
* Paris Sud University			
* University of Bordeaux			
Poland		National Centre for Nuclear Research (NCBJ)	
Romania		Transilvania University of Braşov	
		Faculty of Economics and Law, Faculty of Mechanics and Technology, Faculty of Electronics, Communications and Computers, The University of Piteşti	
Russia		* Saint Petersburg State University	
EU (France • Belgium • Portugal • Germany • Bulgaria)		* Architecture and Urbanism Student Mobility International Programme (AUSMIP) École Nationale Supérieure d'Architecture de Paris La Villette / Faculty of Architecture, The University of Leuven; / Faculty of Architecture, University of Lisbon / Department of Architecture, Technical University of Munich / The University of Architecture, Civil Engineering and Geodesy, Sofia	

A total of 135 partner universities/institutions in 39 countries and regions

Universities/institutions shown with \*: Credit transfers and tuition waivers included in the agreements

Universities/institutions shown with ◆: University-wide (UW) agreements

The table above shows the UW and department-level agreements of which the School of Engineering is in charge. For other agreements in The University of Tokyo, refer to the following International Affairs Department page:

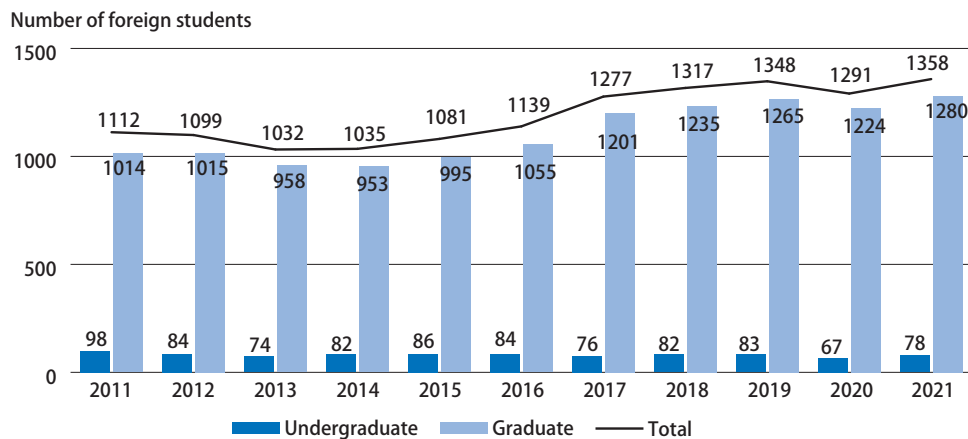
<http://dir.u-tokyo.ac.jp/SysKyotei/01/?module=User&clear=1>



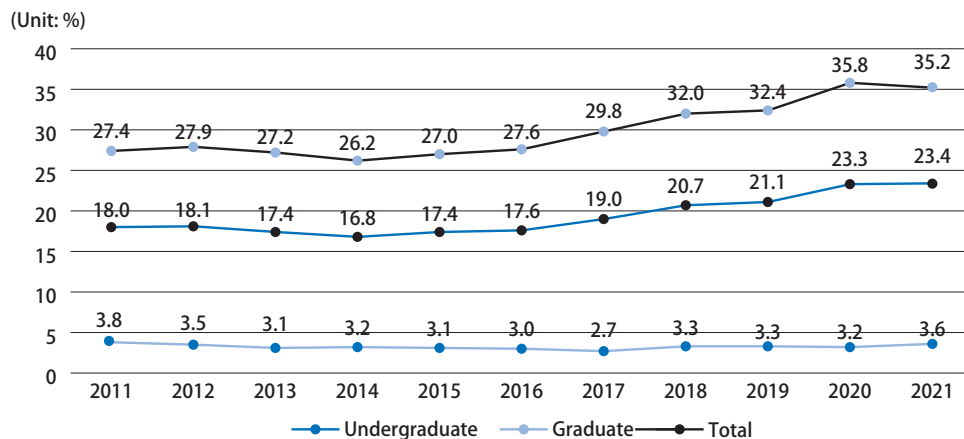
## (2) Number of Foreign Students (As of May 1, 2021)

Department	Undergraduate			Undergraduate research student			Undergraduate auditor			Undergraduate special auditor			Subtotal	Master's course			Doctoral course			Graduate school foreign research student			Graduate special research student			Graduate special auditor			Graduate school research student			Subtotal	Total
	M	F	Total	M	F	Total	M	F	Total	M	F	Total		M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total		
Department of Civil Engineering	2		2									2	52	14	66	48	22	70				1	2	3							139	141	
Department of Architecture	1	3	4									4	35	30	65	36	20	56	2	2	4		1	1				1	1	127	131		
Department of Urban Engineering	2		2									2	13	18	31	13	16	29	2	4	6		1	1		1	1			68	70		
Department of Mechanical Engineering	5		5									5	56	14	70	68	9	77	6		6	3		3						156	161		
Department of Mechano-Informatics	6	4	10									10																			10		
Department of Precision Engineering												20	9	29	18	8	26	2		2	3	1	4							61	61		
Department of Systems Innovation	8	1	9									9	30	9	39	22	6	28	5	2	7	2	2		2					76	85		
Department of Aeronautics and Astronautics	2	1	3									3	11	3	14	17	3	20	1		1									35	38		
Department of Electrical Engineering and Information Systems												107	27	134	54	7	61	1		1										196	196		
Department of Information and Communication Engineering	13	3	16									16																			16		
Department of Electrical and Electronic Engineering	3	1	4									4																			4		
Electronic engineering&information departments																																	
Department of Applied Physics	5		5									5	13	2	15	7	1	8	2		2	1	1	2						27	32		
Department of Mathematical Engineering and Information Physics	1	3	4									4																			4		
Department of Materials Engineering	4	1	5									5	17	3	20	30	8	38	2	2	4	1	1	2			1	1	65	70			
Department of Applied Chemistry	1	1	2									2	17	3	20	6	2	8	2		2	1	2	3						33	35		
Department of Chemical System Engineering	2		2									2	11	8	19	11	4	15	2		2		1	1						37	39		
Department of Chemistry and Biotechnology	3	1	4									4	23	10	33	14	10	24	1	2	3	1	1	1						61	65		
Department of Advanced Interdisciplinary Studies															23	11	34														34	34	
Department of Nuclear Engineering and Management												20	6	26	16	2	18					2	1	3						47	47		
Department of Bioengineering												18	5	23	26	15	41			1	1									65	65		
Department of Technology Management for Innovation												17	9	26	14	3	17	2	5	7	1	2	3							53	53		
Nuclear Professional School																																	
Other								1	1			1																				1	
Total	58	19	77					1	1			78	460	170	630	423	147	570	30	18	48	16	13	29	1	1	2	2	1280	1358			

## (3) Number of Foreign Students by Year (As of May 1, 2021)



## (4) Percentage of Foreign Students by Year (As of May 1, 2021)



\*Only for students taking regular courses (Research students and auditors are excluded)

(5) Number of Foreign Students by Nationality (As of May 1, 2021) (Unit: Persons)

Region (No. of countries)	Nationality	Undergraduate students, research students, special auditors, and auditors					Master' s course					Doctoral course					Graduate school foreign research student			Graduate research student	Graduate special research student		Graduate special auditor	Total	Total (%)
		Japanese government-sponsored	Self-sponsored	Foreign government sponsored	Permanent residents	Subtotal	Japanese government-sponsored	Self-sponsored	Foreign government sponsored	Permanent residents	Subtotal	Japanese government-sponsored	Self-sponsored	Foreign government sponsored	Permanent residents	Subtotal	Japanese government-sponsored	Self-sponsored	Total	Self-sponsored	Self-sponsored	Other	Self-sponsored		
Asia (19)	Pakistan					2	6			8	5				5									13	1,230 (90.57%)
	India	2				2	17	13		30	5	24			29									61	
	Nepal							3		3	2				2									5	
	Bangladesh						3	4		7	6	4			10									17	
	Sri Lanka								3	3	2	4			6									9	
	Myanmar							4		4														4	
	Thailand	5				5	8	5		13	4	9			13	1		1			1			33	
	Malaysia								2	2		2			2									4	
	Indonesia	2				2	4	11		15	1	8			9									26	
	The Philippines								11	11	1	3			4	1		1						16	
	China (Hong Kong)								1	1		2			2									3	
	South Korea	2	7	4	5	18	2	33		3	38	5	42		4	51		1	1					108	
	Mongolia	1	1			2	1	1		2	1	1			2									6	
	Vietnam	1				1		1		1	2	3		1	6									8	
	China		20		25	45	9	399		14	422	21	294		13	328	2	35	37	2	25	1		860	
	Cambodia							3		3		1			1									4	
	Laos						1	2		3														3	
	Bhutan							3		3														3	
	Taiwan		1			1		18		18		27			27						1			47	
Middle East (8)	Iran					2	2		4	1	2			3	1		1						8	25 (1.84%)	
	Turkey						1		1		5			5									6		
	Syria									1				1									1		
	Lebanon									1				1		1	1						2		
	Saudi Arabia						1		1		3			3	1		1						5		
	Kuwait											1		1									1		
	Bahrain														1		1						1		
	United Arab Emirates											1		1									1		
Africa (9)	Egypt													1		1							1	13 (0.96%)	
	Sudan					1			1		2			2	1		1						4		
	Tunisia									1				1		1	1						2		
	Tanzania						1		1														1		
	Morocco						1		1														1		
	South Africa						1		1														1		
	Malawi						1		1														1		
	Zambia														1		1						1		
	Rwanda	1				1																	1		
Oceania (2)	Australia						2		2														2	3 (0.22%)	
	New Zealand						1		1														1		
North America (2)	Canada				1	1	2	3	5	3	3			6									12	24 (1.77%)	
	United States						6		6	1	4		1	6									12		
Central and South America (7)	Mexico						2		2					2									2	17 (1.25%)	
	Brazil					2			2	3	1			4									6		
	Bolivia									1				1									1		
	Peru					1			1	2	1			3									4		
	Costa Rica												1	1									1		
	Haiti												1	1									1		
	Colombia									1	1			2									2		
Europe (18)	Finland									1	2			3									3	46 (3.39%)	
	Sweden									1				1									1		
	United Kingdom						1		1	2	1	3		4									6		
	Luxembourg										1			1									1		
	The Netherlands									1	1			2						1			3		
	Germany										1	2		3									3		
	France					2	3		5		4			4								1	10		
	Spain					1	1		2	1				1									3		
	Portugal										2			2									2		
	Italy												2	2									2		
	Greece										1			1									1		
	Austria										1			1									1		
	Switzerland							1		1		1		1									2		
	Poland											1		1									1		
	Hungary						1			1													1		
	Bulgaria										2			2									2		
	Russia							1		1	1	1		2									3		
	Uzbekistan							1		1													1		
<b>Total</b>	<b>65 countries</b>	<b>14</b>	<b>29</b>	<b>4</b>	<b>31</b>	<b>78</b>	<b>63</b>	<b>549</b>	<b>18</b>	<b>630</b>	<b>84</b>	<b>467</b>	<b>19</b>	<b>570</b>	<b>10</b>	<b>38</b>	<b>48</b>	<b>2</b>	<b>28</b>	<b>1</b>	<b>1</b>	<b>1358</b>			

## 7. Research Activities

### (1) External Financial Sources

Type	Academic year 2018		Academic year 2019		Academic year 2020	
	No. of cases	Amount (1,000 yen)	No. of cases	Amount (1,000 yen)	No. of cases	Amount (1,000 yen)
Grants-in-Aid for Scientific Research	582	3,508,490	631	3,693,780	660	3,880,451
Commissioned research, etc.	342	7,594,080	336	7,511,591	482	7,512,944
Cooperative Research	499	2,719,051	569	2,548,487	393	2,637,810
Donations	449	1,563,766	416	1,542,928	355	1,338,846
Other subsidies	72	1,115,267	87	911,565	64	1,083,058
Total	1,944	16,500,654	2,039	16,208,351	1,942	16,268,861

### (2) Sponsored Chairs (As of April 1, 2021) (Unit: 1,000 yen)

Description	Sponsor	Total amount donated	Duration	Department
Quality and Healthcare Social System Engineering (TOYOTA, DENSO, SEKISUI CHEMICAL, JAPANESE STANDARDS ASSOCIATION, JUSE, VERISERVE, PARAMOUNT BED, KOBAYASHI CREATE and Nikkenkyo)	BML, Inc.; Toshiba Sumiden Medical Information Systems Corporation; Okaya Electric Industries Co., Ltd.; Takenaka Corporation; and VeriServe Corporation	230,000	Jul. 1, 2006 to Jun. 30, 2011	Chemical System Engineering
	VeriServe Corporation; Paramount Bed Co., Ltd.; and Kobayashi Create Co., Ltd.	86,000	Jul. 1, 2011 to Jun. 30, 2016	
	Toyota Motor Corporation; DENSO Corporation; Sekisui Chemical Co., Ltd.; Japanese Standards Association; Union of Japanese Scientists and Engineers; VeriServe Corporation; Paramount Bed Co., Ltd.; Kobayashi Create Co., Ltd.; and Nikkenkyo	143,000	Jul. 1, 2016 to Jun. 30, 2021	
Laboratory for Urban Sustainability and Renaissance Studies	Sumitomo Realty & Development Co., Ltd.; Tokyo Tatemono Co., Ltd.; Mitsubishi Estate Co., Ltd.; Mitsui Fudosan Co., Ltd.; Mori Building Co., Ltd.; Obayashi Corporation; Kajima Corporation; Shimizu Corporation; Taisei Corporation; Takenaka Corporation; East Japan Railway Company; Tokyo Electric Power Co., Inc.; Tokyo Gas Co., Ltd.; and Sekisui House, Ltd.	156,000	Oct. 1, 2007 to Sep. 30, 2012	Urban Engineering
	Mitsui Fudosan Co., Ltd.; Mitsubishi Estate Co., Ltd.; Mori Building Co., Ltd.; Obayashi Corporation; Kajima Corporation; Shimizu Corporation; Takenaka Corporation; Sekisui House, Ltd.; Tokyo Gas Co., Ltd.; Hitachi, Ltd.; and Taisei Corporation	113,000	Oct. 1, 2012 to Sep. 30, 2017	
	Mitsui Fudosan Co., Ltd.; Mitsubishi Estate Co., Ltd.; Mori Building Co., Ltd.; Obayashi Corporation; Kajima Corporation; Shimizu Corporation; Taisei Corporation; Takenaka Corporation; Sekisui House, Ltd.; and East Japan Railway Company	115,000	Oct. 1, 2017 to Sep. 30, 2022	
Power Frontier Laboratory	Kansai Electric Power Co., Inc.; Hitachi, Ltd.; Mitsubishi Electric Corporation; and Sumitomo Electric Industries, Ltd.	200,000	Jun. 1, 2008 to May. 31, 2013	Electrical Engineering
	Hitachi, Ltd.; Mitsubishi Electric Corporation; and Sumitomo Electric Industries, Ltd.	150,000	Jun. 1, 2013 to May. 31, 2018	
	Mitsubishi Electric Corporation; Sumitomo Electric Industries, Ltd.; NGK Insulators, Ltd.; TAKAOKA TOKO CO., LTD.; Central Japan Railway Company	112,500	Jun. 1, 2018 to May. 31, 2023	
Ubiquitous Power Grid Laboratory	East Japan Railway Company and Toshiba Corporation	130,000	Jun. 1, 2008 to May. 31, 2013	Electrical Engineering
	East Japan Railway Company; Toshiba Corporation; Electric Power Development Co., Ltd.; Fuji Electric Co., Ltd.; and Meidensha Corporation	112,500	Jun. 1, 2013 to May. 31, 2018	
	East Japan Railway Company; Toshiba Energy Systems & Solutions Corporation; Electric Power Development Co., Ltd.; FUJI ELECTRIC CO., LTD.; Meidensha Corporation; Hitachi, Ltd.	140,500	Jun. 1, 2018 to May. 31, 2023	
Architectural Material & Component Design Laboratory (AGC)	Asahi Glass Co., Ltd. (presently AGC Inc.)	99,000	Apr. 1, 2010 to Mar. 31, 2013	Architecture
	Asahi Glass Co., Ltd. (presently AGC Inc.)	99,000	Apr. 1, 2013 to Mar. 31, 2016	
	Asahi Glass Co., Ltd. (presently AGC Inc.)	99,000	Apr. 1, 2016 to Mar. 31, 2019	
	AGC Inc.	99,000	Apr. 1, 2019 to Mar. 31, 2022	
Basic Materials Management Engineering	NIPPON STEEL CORPORATION; JFE Steel Corporation; Kobe Steel, Ltd.	195,000	Oct. 1, 2017 to Sep. 30, 2022	Materials Engineering
Chair for Global Consumer Intelligence	Recruit Holding Co., Ltd.; Culture Convenience Club Co., Ltd.; Panasonic Corporation; Industrial Growth Platform, Inc. (IGPI); Wellness Co., Ltd.; KPI Solutions Co., Ltd.; DWANGO Co., Ltd.; Lawson, Inc.; FIELDS Corporation; INTAGE HOLDINGS Inc.; and transcosmos inc.	258,000	Apr. 1, 2014 to Mar. 31, 2019	Technology Management for Innovation
	SoftBank Group Corp.	100,000	Apr. 1, 2019 to Mar. 31, 2022	
Management and Organization of the Building Process Laboratory	Obayashi Corporation, Kajima Corporation, Shimizu Corporation, Taisei Corporation, and Takenaka Corporation	250,000	Apr. 1, 2017 to Mar. 31, 2022	Architecture
Incubation for new IoT business	Students only	1.5 million US dollars	Apr. 1, 2017 to Mar. 31, 2022	Mechanical Engineering
i-Construction System	Japan Federation of Construction Contractors; Civil Engineering Consultants Association; Japan Geotechnical Consultants Association; Japan Federation of Survey Planning Associations; Japan Construction Machinery and Construction Association	311,850	Oct. 1, 2018 to 2021.9.30	Civil Engineering

Description	Sponsor	Total amount donated	Duration	Department
Blockchain Innovation	Sumitomo Mitsui Financial Group, Inc.; Hotto Link Inc.; Money Forward Financial, Inc.; Good Luck 3 Inc.; JSS Co., Ltd.; Zipper Co., Ltd.	90,000	Sep. 1, 2018 to 2021.10.31	Technology Management for Innovation
Photonic quantum information processing	Nichia Corporation	400,000	Apr. 1, 2019 to Mar. 31, 2027	Institute of Engineering Innovation
Education of automobile design	N & Partners for Urban Research Schaeffler Japan Co.,Ltd ASAHI TEKKO CO.,LTD Komatsu Ltd. TEIN.INC. Yasutsune Chiba	87,000	Jul. 1, 2019 to Jun. 30, 2022	Mechanical Engineering
ADVANTEST D2T Research Department	Advantest Corporation	90,000	Oct. 1, 2019 to Sep. 30, 2022	Systems Design Lab.
Biosystems Engineering for Health and Longevity	The Frontier Medical Sciences Foundation	150,000	Nov. 1, 2019 to Oct. 31, 2024	Bioengineering
Innovation for Sewerage Systems	Tokyo Metropolitan Sewerage Service Corporation	190,000	Apr. 1, 2020 to Mar. 31, 2025	Urban Engineering
Aerospace Innovative Structural Design	IHI AEROSPACE Co., Ltd	140,000	Apr. 1, 2020 to Mar. 31, 2023	Aeronautics and Astronautics
Design Studies Course for Urban Resilience	FUKKEN CO.,LTD.; Asia Air Survey Co., Ltd.	60,000	Apr. 1, 2021 to Mar. 31, 2024	Civil Engineering

### (3) Social Cooperation Programs (As of April 1, 2021) (Unit: 1,000 yen)

Description	Company/entity name	Total cost	Duration	Department
Innovation for Engineering Synthesis	Komatsu Ltd.	347,023	Apr. 2019 to Mar.30, 2024	Mechanical Engineering
		582,170	(Apr. 2007 to Mar.30, 2019)	
Advanced Aero Propulsion Technology Creation	IHI Corporation	98,400	Apr. 2019 ~ Mar. 2022	Aeronautics and Astronautics
		197,200	(Dec. 2012 ~ Mar. 2019)	
Technology Incubation for Glass of the Future	AGC Inc.	105,000	Apr. 2018 ~ Mar. 2021	Mechanical Engineering
		106,301	(Apr. 2015 ~ Mar. 2018)	
Technology Incubation for machine tool	Mitsubishi Heavy Industries Machine Tool Co., Ltd.	102,000	Apr. 2019 ~ Mar. 2022	Mechanical Engineering
		102,000	(Apr. 2016 ~ Mar. 2019)	
Intelligent Construction System	Fujita Corporation	62,500	Oct. 2019 ~ Mar. 2022	Precision Engineering
		75,000	(Oct. 2016 ~ Sep. 2019)	
Laboratory for Material and Life Sciences for Fusion of Fluorine and Organic Chemistry	AGC Inc.	105,000	Apr. 2020 ~ Mar. 2023	Chemistry and Biotechnology
		105,000	(Apr. 2017 ~ Mar. 2020)	
Evaluating Future Technology Elements for Mobility	Toyota Motor Corporation	150,000	Jul.2020 ~ Jun. 2023	Mechanical Engineering
		150,000	Jul.2017 ~ Jun. 2020	
Mathematical Engineering of Morality Emotions	SoftBank Robotics Corp.	200,000	Sep. 2017 ~ Aug. 2022	Bioengineering
Innovation of next generation signal and power transmission technology	Furukawa Electric Co., Ltd.	120,000	Feb. 2018 ~ Jan. 2021	Mechanical Engineering
Next Generation Medical Radiation Imaging	Delta Electronics, Inc.	195,000	Apr. 2018 ~ Mar. 2023	Bioengineering
Advanced Science and Technology in Financial Market	Daiwa Securities Group Inc., Daiwa Securities Co.Ltd., Daiwa Asset Management Co.Ltd., Daiwa Institute of Research Ltd.	78,000	Apr. 2018 ~ Mar. 2021	Systems Innovation
Integrated Risk Engineering	Central Research Institute of Electric Power Industry	150,000	Apr. 2018 ~ Mar. 2023	Nuclear Professional School
Public-Private Council's Lecture on Sky Frontier Research Initiative	Yamaha Motor Co.; Ltd.; Hitachi, Ltd; Rakuten, Inc.	87,500	Oct. 2018 ~ Sep. 2021	Aeronautics and Astronautics
Performance Evaluation of Next-Generation Infrastructure Material and Architecture	Shimizu Corporation; Kajima Corporation; MAEDA CORPORATION; Sumitomo Mitsui Construction Co., Ltd.; Coms Engineering Corporation; Shutoko Engineering Company Limited.; East Japan Railway Company	189,000	Apr. 2019 ~ Mar. 2022	Civil Engineering
Creative Design and Startup Workshop	Sony Corporation	60,000	Apr. 2019 ~ Mar. 2022	Mechanical Engineering
Integrated Decommissioning of Nuclear Reactors	Hitachi-GE Nuclear Energy, Ltd.; Toshiba Energy Systems & Solutions Corporation; Mitsubishi Heavy Industries, Ltd.; Tokyo Electric Power Company Holdings, Inc.	108,000	Apr. 2019 ~ Mar. 2022	Nuclear Professional School
Futuristic Management and Control System for Urban Flood Disasters	Meidensha Corporation; METAWATER Co. Ltd.; Hitachi, Ltd; Toshiba Infrastructure Systems & Solutions Corporation; Mitsubishi Electric Corporation; Tokyo Engineering Consultants Co., Ltd; Nihon Suido Consultants Co., Ltd.; NJS CO., LTD.; NIHON SUIKO SEKKEI Co., Ltd.; IDEA Consultants, Inc.; FUSO Corporation; Swing Corporation	64,800	Apr. 2019 ~ Mar. 2022	Research Center for Water Environment Technology

Description	Company/entity name	Total cost	Duration	Department
Development of novel synthetic process for ordered porous materials	Tosoh Corporation	65,000	Jun. 2019 ~ Mar. 2022	Chemical System Engineering
digital bioanalysis	TOPPAN PRINTING CO., LTD.	250,000	Jun. 2019 ~ Mar. 2024	Applied Chemistry
Next-Generation Urban-Mobility Design Studies Unit	IHI Corporation; NTT DATA Corporation; SHIMIZU CORPORATION; Tokyo Gas Real Estate; The Japan Research Institute, Limited; NEC Corporation; Hitachi, Ltd.; Mitsui Fudosan Co., Ltd.; MITSUBISHI ESTATE CO., LTD.	90,000	Jun. 2019 ~ Jun. 2022	Civil Engineering
Voice analysis and measurement of pathophysiology	Janssen Pharmaceutical K. K.; MS&AD Insurance Group Holdings, Inc.	136,500	Sep. 2019 ~ Aug. 2022	Bioengineering
Next generation electron microscopy	JEOL Ltd.	78,000	Apr. 2020 ~ Mar. 2023	Institute of Engineering Innovation
Technology informatics	DAIKIN INDUSTRIES, LTD	278,337	Apr. 2020 ~ Mar. 2024	Technology Management for Innovation
Next Generation of Energy Infrastructure	Electric Power Development Co., LTD.; SHIMIZU CORPORATION; Toshiba Energy Systems & Solutions Corporation; MHI Vestas Offshore Wind Japan, Ltd.; Nippon Kaiji Kyokai	225,000	Apr. 2020 ~ Mar. 2023	Civil Engineering
Research on next-generation agricultural machines	KUBOTA Corporation	105,000	Apr. 2020 ~ Mar. 2023	Mechanical Engineering
Research on QOL improvement of pain patients	KYOCERA Corporation	60,000	Apr. 2020 ~ Mar. 2023	Mechanical Engineering
Sustainable human centric next generation manufacturing	TOYOTA MOTOR CORPORATION.	411,450	May.2020 ~ Apr.2023	Research into Artifacts, Center for Engineering
Human-Motion Data Science	Asahi Kasei Corporation, nac Image Technology Inc., Xenoma Incorporated, OHTAKE-ROOT KOGYO CO., LTD, Euphoria Co., Ltd.	60,475	Jun.2020 ~ May.2023	Research into Artifacts, Center for Engineering
Co-designing Future Engineering	EBARA CORPORATION., Honda Motor Co., Ltd., TOSHIBA CORPORATION	90,000	Jun.2020 ~ May.2023	Mechanical Engineering
Next generation zirconia ceramics	Tosoh Corporation, Japan Fine Ceramics Center, WORLD LAB inc	533,250	Jul.2020 ~ Jun.2025	Institute of Engineering Innovation
Construction of innovative coating technologies	Nippon Paint Holdings Co., Ltd.	1,100,000	Jan.2020 ~ Sep.2025	Institute of Engineering Innovation
Research for Next Generation HVAC Technology	DAIKIN INDUSTRIES, LTD.	357,500	Nov.2020 ~ Oct.2025	Institute of Engineering Innovation
Integrated Molecular Structure Analysis Laboratory	Eisai Co., Ltd., ONO PHARMACEUTICAL CO., LTD., Kao Corporation., Kirin Holdings Company, Limited., GL Sciences Inc., SHIONOGI & Co., Ltd., Shimadzu Corporation, DAIKIN INDUSTRIES, LTD., Daicel Corporation, Sumitomo Dainippon Pharma Co., Ltd., Takasago International Corporation, TSUMURA & CO., Tosoh Corporation, Nissan Chemical Corporation, Japan Tobacco Inc., JEOL Ltd., MITSUI CHEMICAL ANALYSIS & CONSULTING SERVICE, INC., Rigaku Corporation, Merck KGaA	280,000	Nov.2020 ~ Oct.2023	Applied Chemistry
Engineering on atomic layer level control of material surface	DAIKIN INDUSTRIES, LTD.	170,000	Jan.2021 ~ Dec.2023	Institute of Engineering Innovation
Next-generation integrated engineering for high-performance polymer	DAIKIN INDUSTRIES, LTD.	556,000	Apr.2021 ~ Mar.2024	Institute of Engineering Innovation
Precision Health	Mitsubishi UFJ Trust and Banking Corporation, Prudential Holdings of Japan, Inc, H.U. Group Holdings, Inc., Hitachi High-Tech Corporation., SoftBank Corp.,	375,000	Apr.2021 ~ Mar.2024	Bioengineering
DX for chemical plants	DAIKIN INDUSTRIES, LTD.	105,000	Apr.2021 ~ Mar.2024	Mechanical Engineering

#### (4) Cooperative Programs with National Research and Development Agencies (As of April 1, 2021) (Unit: 1,000 yen)

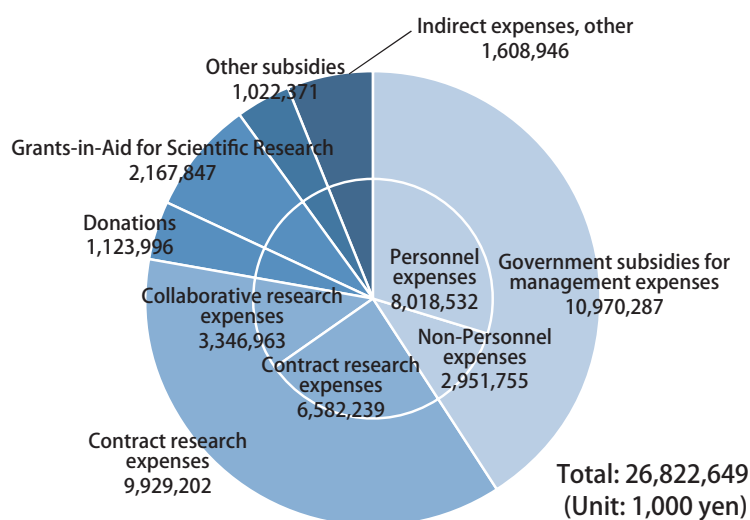
Description	Company/entity name	Total cost	Duration	Department
Emergent-Matter Science	RIKEN	420,000	Apr. 2018 ~ Mar. 2025	Quantum-Phase Electronics Center
		470,400	(Apr. 2010 ~ Mar. 2018)	
Center for Frontier Astronautics	Japan Aerospace Exploration Agency	146,920	Nov. 2019 ~ Mar. 2023	Aeronautics and Astronautics
Nuclear Safety Management Course	Japan Atomic Energy Agency	84,000	Apr. 2020 ~ Mar. 2023	Nuclear Engineering and Management

## 8. Finances

### (1) Expenditures (Unit: 1,000 yen)

Category	Academic year 2018	Academic year 2019	Academic year 2020
Government subsidies for management expenses	10,330,085	10,487,377	10,970,287
Personnel expenses	8,134,478	8,226,952	8,018,532
Non-Personnel expenses	2,195,607	2,260,425	2,951,755
Contract research expenses	8,306,726	8,805,325	9,929,202
Contract research expenses	6,109,926	5,777,888	6,582,239
Collaborative research expenses	2,196,800	3,027,437	3,346,963
Donations	1,166,501	1,307,985	1,123,996
Grants-in-Aid for Scientific Research	2,344,630	2,554,559	2,167,847
Other subsidies	1,184,930	584,059	1,022,371
Indirect expenses, other	792,615	1,147,237	1,608,946
<b>Total</b>	<b>24,125,487</b>	<b>24,886,542</b>	<b>26,822,649</b>

### Expenditures (Academic Year 2020)



### (2) Land and Building Areas (As of April 2021)

Category	Hongo	Kashiwa	Tokai (Nuclear Professional School)	Kakioka (Kakioka Research Center)	
Address	7-3-1 Hongo, Bunkyo-ku, Tokyo	5-1-5 Kashiwanoha, Kashiwa-shi, Chiba	2-22 Shirakata-shirane, Tokai-mura, Naka-gun, Ibaraki Prefecture	414 Kakioka, Ishioka-shi, Ibaraki Prefecture	
Land area	(Approx) 92,000 m <sup>2</sup>	(Approx) 5,300m <sup>2</sup>	29,924 m <sup>2</sup> (rented: 26,621 m <sup>2</sup> )	471,931m <sup>2</sup>	
Buildings	No. of buildings	35	2	17	
	Building area	36,373m <sup>2</sup>	27,318m <sup>2</sup>	7,154m <sup>2</sup>	253m <sup>2</sup>
	Total floor area	200,698m <sup>2</sup>	4,570m <sup>2</sup>	12,971m <sup>2</sup>	374m <sup>2</sup>

## 9. Public Relations and Information

### (1) List of Publications



#### University of Tokyo Faculty of Engineering Guide (*Innovator Next*)

Provides introductions to the undergraduate departments at the Faculty of Engineering

Distributed to: Students at the College of Arts and Sciences (available for purchase; Japanese only)

URL: <https://www.t.u-tokyo.ac.jp/eng/innovator/full/>



#### 2021 Faculty of Engineering Guidebook

Guidebook is intended for use by students of the College of Arts and Sciences interested in studying at the Faculty of Engineering

Distributed to students of the College of Arts and Sciences (available in Japanese only)

URL: <https://www.t.u-tokyo.ac.jp/shared/link/data/GuidanceBook.pdf>



#### Ttime!

Biannual PR newsletter created by students from the Faculty of Engineering.

Distributed to senior high school students, preparatory school students, and the general public.

URL: [https://www.t.u-tokyo.ac.jp/shared/public\\_relations/data/setcmm\\_201706161743342654423133\\_580808.pdf](https://www.t.u-tokyo.ac.jp/shared/public_relations/data/setcmm_201706161743342654423133_580808.pdf)



#### School of Engineering, The University of Tokyo

This English brochure outlines admissions information for the Graduate School of Engineering for international students.

Distributed to: international students, other individuals

URL: [http://www.t.u-tokyo.ac.jp/shared/admission/data/setcmm\\_201706071742289746638451\\_433245.pdf](http://www.t.u-tokyo.ac.jp/shared/admission/data/setcmm_201706071742289746638451_433245.pdf)

Inquiries regarding publications: Public Relations Office (kouhou@pr.t.u-tokyo.ac.jp)

### (2) Official websites

Faculty of Engineering

English website:

Graduate School of Engineering

English website:

Official Facebook page:

Twitter

YouTube

<http://www.t.u-tokyo.ac.jp/foe/index.html>

<http://www.t.u-tokyo.ac.jp/foee/index.html>

<http://www.t.u-tokyo.ac.jp/soe/index.html>

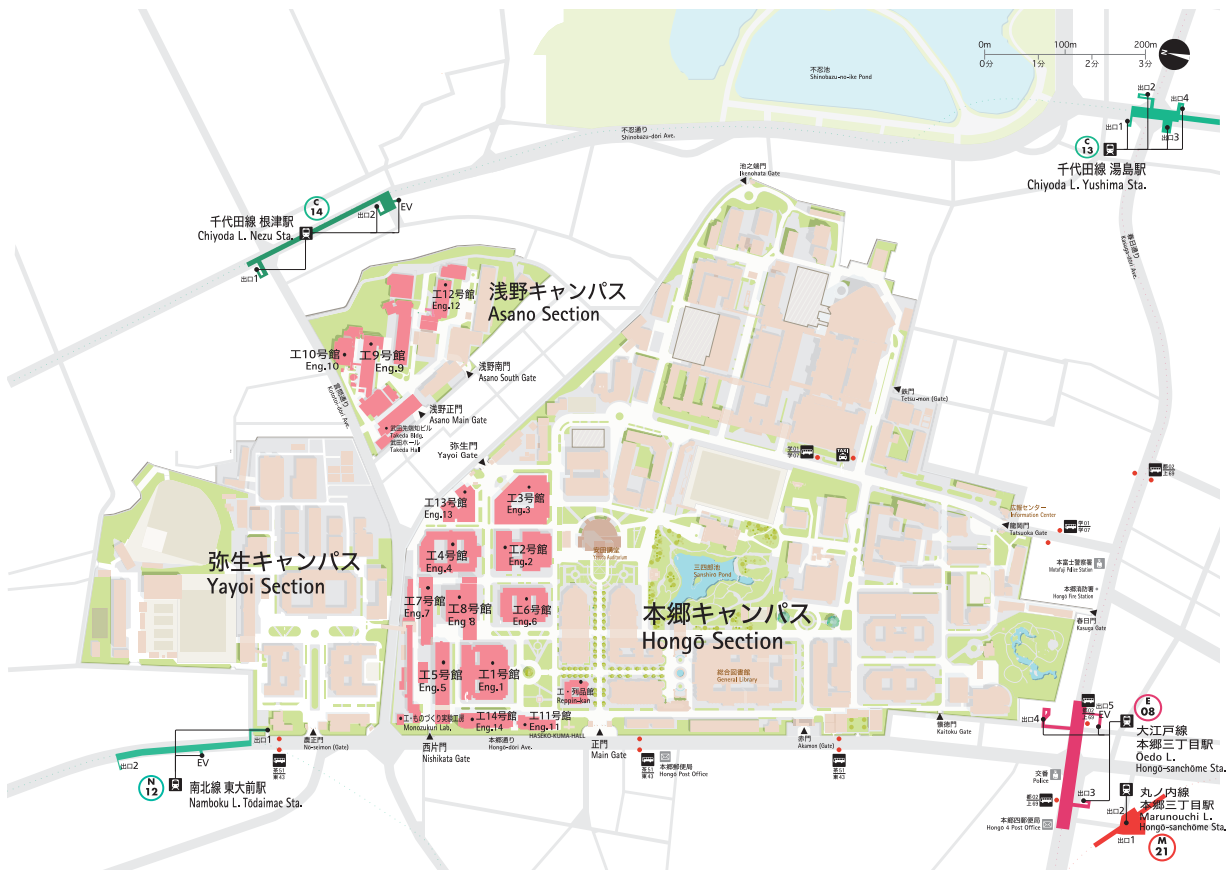
<http://www.t.u-tokyo.ac.jp/soee/index.html>

<https://www.facebook.com/UTokyo.Eng>

[https://twitter.com/eng\\_univ\\_tokyo](https://twitter.com/eng_univ_tokyo)

<https://www.youtube.com/channel/UCpdEaqyqZQK25Iy-oNIuUCA/>

# Hongo Campus Map/Access



## ◆Subway Access

From Hongo-sanchome Station (Subway Marunouchi Line): 10-minute walk

From Hongo-sanchome Station (Subway Oedo Line): 10-minute walk

From Nezu Station (Subway Chiyoda Line): 5- to 10-minute walk

From Todai-mae Station (Subway Nambuoku Line): 10-minute walk

## ◆Bus Access

From Ochanomizu Station (JR Chuo and Sobu Lines):

Take Toei Bus Cha 51 (bound for Komagome Station or Oji Station) or Toei Bus Higashi 43 (bound for Arakawa-dote). Get off at Todai Akamon-mae, Todai Seimon-mae, or Todai Nogakubu-mae bus stop.

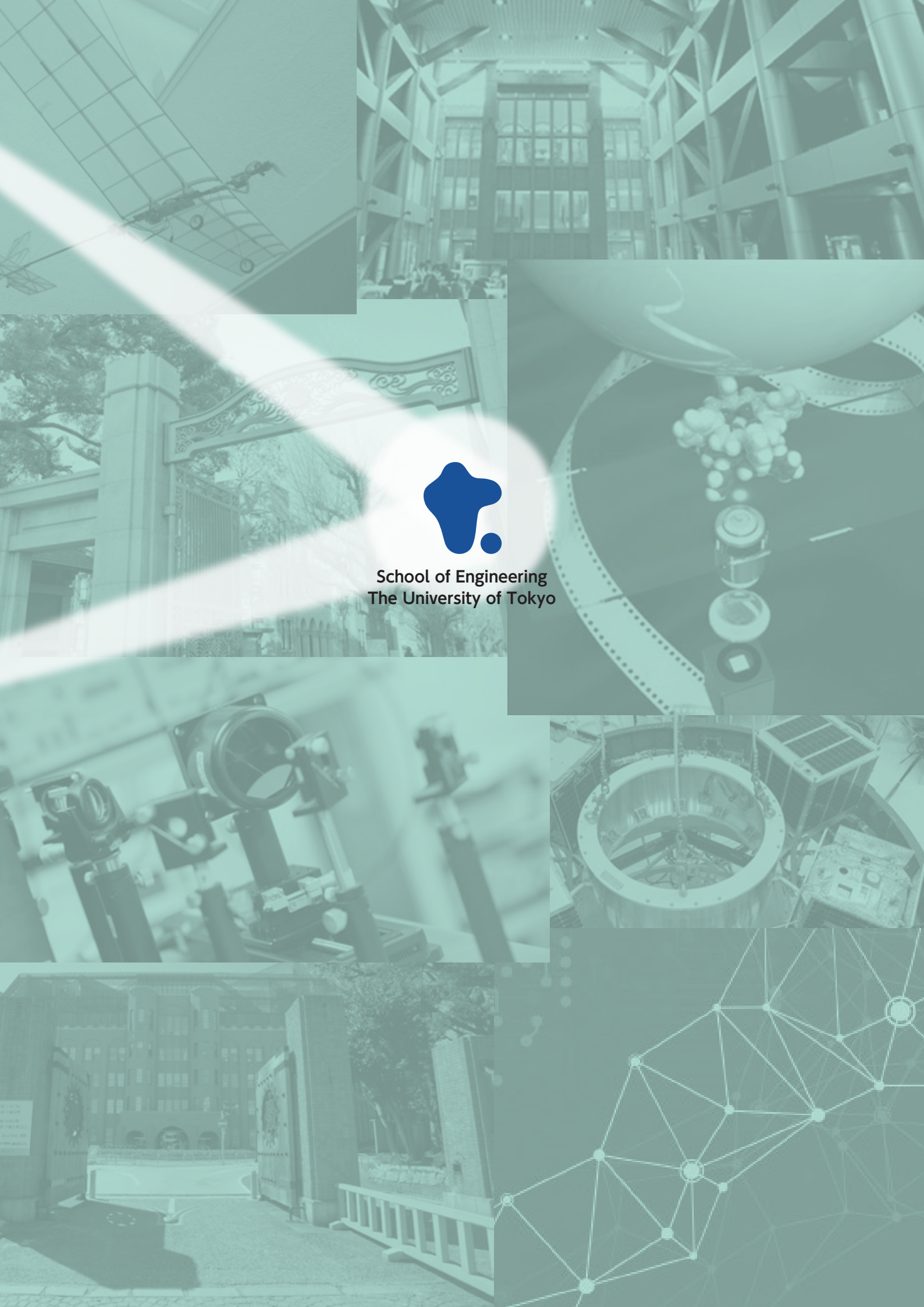
Take Gaku Bus Gaku 07 (bound for Todai-konai) and get off at Todai Tatsuoka-mon, Byoin-mae, or Konai bus stop.

From Ueno Station and Okachimachi Station:

Take Toei Bus To 02 (bound for Otsuka) and get off at Yushima Yonchome bus stop (from Okachimachi Station only).

Take Gaku Bus Gaku 01 (bound for Todai-konai) and get off at Todai Tatsuoka-mon, Byoin-mae, or Konai bus stop.





School of Engineering  
The University of Tokyo