

KYOTO UNIVERSITY

Graduate School of Engineering and Faculty of Engineering

2025



Edit and issue

Public Relations Committee, and General Affairs Division
Graduate School of Engineering, Kyoto Univ.
Kyoto Daigaku-Katsura, Nishikyo-ku, Kyoto 615-8530
<https://www.t.kyoto-u.ac.jp/en>
Published in August 2025

Official Website



京都大学
KYOTO UNIVERSITY

CONTENTS

1	Philosophy and Vision of Kyoto University Engineering	2
2	New Developments	3
3	Endowed Courses and Industry-Academia Collaboration Courses	8
4	History	9
5	Organization	11
6	Undergraduate Schools of the Faculty of Engineering	13
7	Departments of the Graduate School of Engineering	14
8	Research and Educational Facilities and Centers	18
9	International Exchanges	21
10	Kyoto University Engineering Fund	23
11	Alumni Associations of Kyoto University Engineering	23
12	Financial Status	24
	Statistics Data	25
	Access Map	29



Check here to view
the Kyoto University Katsura Campus introduction video



1 Philosophy and Vision of Kyoto University Engineering

Kyoto University has a mission statement in place with the aim of sustaining and developing the historical commitment to academic freedom, striving to solve pluralistic challenges, and pursuing harmonious coexistence within the global community. To achieve these goals, the Kyoto University Graduate School of Engineering and Faculty of Engineering (Kyoto University Engineering) sets forth its philosophy, objectives, and vision as follows:

Philosophy and Objectives of Kyoto University Engineering

● Philosophy

The pursuit of the truth is the essence of learning. Contained therein is the notion that engineering encompasses all fields of science that make direct or indirect contributions to the lives of people and essentially plays a significant role in the ongoing advancement of the global community and in the progress of civilization. The Graduate School of Engineering and the Faculty of Engineering at Kyoto University, in accordance with the above understanding, is committed to the development of science and technology in harmony with the natural environment, with an emphasis on academic fundamentals and basic principles, as well as to the provision of an education that combines a focus on the attainment of outstanding professional skills and high standards of morality with a balanced approach to acquiring a solid liberal arts education and sense of individuality. In engaging in such research and education, we are mindful of the need to promote ties with local communities and encourage international exchanges. We shall operate the Graduate School and the Faculty based on respect for both the autonomy of the various research and educational bodies under our jurisdiction and the human rights of each person and will respond to the need to be socially accountable with as much effort as we can at all times.

● Objectives

The Graduate School of Engineering and the Faculty of Engineering consider the nature of engineering and their mission as academic organizations to be as follows. The mission of the Graduate School of Engineering and Faculty of Engineering is to achieve the abovementioned philosophy while continuing the tradition of an open academic culture that respects the independence of individual members. More specifically, we aim to create and pass on knowledge and technologies derived from free and open-minded intellectual activities.

Vision of Kyoto University Engineering

Addressing challenges, building the future

Research Integrating basic and applied research to address challenges

We place equal importance on both basic and applied research to drive the creation of unique and innovative scientific technologies that enable **monozukuri** (the making of things), as well as **machizukuri** (urban development) that is environmentally friendly and resilient to disasters. Through technological development, we tackle various challenges and aim to contribute to the realization of a sustainable society.

Education Cultivating the ability to think through research

Rooted in the tradition of an "open academic culture," we place a strong emphasis on individual autonomy, cultivating the ability to think critically through mutual encouragement and intellectual challenge. Through research, we provide an education that empowers students to identify and solve problems independently.

Human Resource Development and Industry-Academia-Government Collaboration

Collaborating beyond disciplinary boundaries

We develop researchers and engineers who create breakthroughs by integrating individual expertise with knowledge from other fields. To foster an environment where knowledge is integrated and collaboration thrives, we are actively involved in establishing endowed courses, industry-academia collaboration courses, social implementation consortia, and other initiatives.

Diversity Promoting DEIB (Diversity, Equity, Inclusion, and Belonging)

We value an environment in which individuals with different perspectives, experiences, and values can come together regardless of gender, nationality, age or other attributes. By promoting gender equality initiatives, we seek to invigorate learning and research through the creation of a richly diverse environment.

2 New Developments

Kyoto University's Faculty of Engineering and Graduate School of Engineering conduct innovative research on a daily basis and proactively implement unique activities that contribute to the advancement of education and research. Below are some examples.

Realization of the Techno-Science Hill Katsura Concept, Starting with the Katsura Library

The Graduate School of Engineering is working to realize the Techno-Science Hill Katsura concept in collaboration with the Katsura Library and the Kyoto University Office of Research Acceleration. Specifically, based on the idea of a new library with research support capability, the Katsura Library disseminates the seeds of research at the Katsura Campus through four key channels—exhibitions, website/video content, experimental implementation, and events—with the aim of laying a foundation to spark innovation and establish an industry-academia collaborative network.

Since academic year 2022/23, we have been holding industry-academia collaboration network events twice a year focusing on young and female researchers. During the 2024/25 academic year, we held two events: BX Katsura, which focused on using biotechnology for social transformation, or biotransformation (BX), and Resilience Katsura, which focused on innovative technologies to accelerate the realization of a resilient society. In the former event, companies involved in BX in the fields of red biotechnology (medical and health), white biotechnology (biomanufacturing), and green biotechnology (agriculture, forestry, and fisheries) attended. These companies, along with next-generation researchers from Kyoto University, were invited to give research presentations and hold open discussions and exhibitions. The latter event featured research presentations and exhibitions by companies and universities that focused on innovative technologies in disaster response, electricity, energy, and materials.



BX Katsura event leaflet



Exhibition at BX Katsura



Resilience Katsura event leaflet

Katsura-no-Niwa
Catalogue for Advanced Research of Graduate School of Engineering produced by Katsura Library, Kyoto University



BX Katsura:
Industry-academia collaborative network event with Kyoto University's next-generation researchers



Resilience Katsura:
Industry-academia collaborative network event with Kyoto University's next-generation researchers



Further Improvement of Undergraduate Education

The Faculty of Engineering holds the Faculty of Engineering Education Symposium as its own faculty development (FD) activity. During the 2024/25 academic year, under the theme of "Engineering Education for Thinking and Creating," we exchanged information and held discussions on early information education, starting from the following academic year, as well as two urgent issues currently facing university education: "Coexistence with Generative AI and the Literacy Required for It" and "Strategies for Communicating the Appeal of Engineering to Female Middle and High School Students, Their Parents, and Teachers."



Panel discussion at the symposium

Communicating the appeal of the Faculty of Engineering to prospective students

The 19th Meeting of Kansai Kagakujuku for Female Junior and Senior High School Students was held as a joint project of the Kansai Kagakujuku Consortium, with Kyoto University acting as the organizer. The aim was to communicate the appeal of science-related career paths to female students in these grades. In FY2024, two events were held at Kyoto University in July and March, and subsequent 4 events were held at Osaka Metropolitan University, The University of Osaka, Kobe University, Nara Women's University, and cooperative organizations. At the Kyoto University event in July at Katsura Campus, participants attended lectures by female researchers active from universities and companies, and had the opportunity to interact with relatable role models, including female Kyoto University undergraduate and graduate students and Kansai Kagakujuku alumnae. In March, participating students have experienced presentations and an experimental workshop at the Yoshida Campus in cooperation with the Faculty of Science, the Faculty of Integrated Human Studies, and the Faculty of Agriculture.

In December 2024, round-table discussions and tours were held at Kyoto University's Katsura Campus. Over fifty high school students visited the campus and heard from alumnae about their careers and jobs. Then, they broke into groups to tour laboratories and the Katsura Library. There was also a round-table discussion between high school career guidance teachers, who led the students, and executive board members, including the dean of the faculty, Yasuto Tachikawa. They engaged in a lively discussion about high school-university collaboration on topics such as ways to make engineering more attractive to high school students and how high schools view the female quota in the special entrance examination.

Starting in academic year 2026, the Faculty of Engineering will introduce a quota for female applicants in the special entrance examination. We aim to address the gender imbalance in the faculty and create an environment where students from diverse backgrounds and with various attributes can engage in an open dialogue and deepen their academic experience.



Tour of Katsura Campus



Special entrance examination leaflet

Kansai Kagakujuku



Special entrance examination for the Faculty of Engineering



Support for the development of Next-Generation Researchers

The Interdisciplinary Research Institute for the Next Generation supports the development of researchers who will lead the next generation through the acquisition and practical application of new, convergence knowledge by providing opportunities for young researchers from different majors and disciplines to interact with each other through research.

In academic year 2024, activities were centered on three Interdisciplinary Research Seminars. At the seminars, about 40 Next-Generation Researchers presented their research in the form of pitch presentations and posters. This is not only an exchange between different fields, but also represents the cultivation of essential transferable skills, i.e., the ability to make people in other fields understand and be interested in your own research. In fact, such activities are fostering the growth of interdisciplinary collaboration. We held group discussions on interdisciplinary themes, providing an opportunity to gain convergence knowledge by exploring issues from various perspectives. In addition, as part of a broader interdisciplinary exchange across departmental boundaries, we co-hosted the collaboration event "The Beginning of Collaboration between Health and Engineering" with the Kyoto University School of Public Health.

In the future, we will expand the scope of our exchanges to include industry, with a view to transdisciplinary cooperation.

Website of the Interdisciplinary Research Institute for the Next Generation



Interdisciplinary Research Seminar



Press briefing

International exchange activities

The Faculty of Engineering and the Graduate School of Engineering accept many faculty members and students from overseas universities with which they have student exchange programs. Mainly at the Engineering Education Research Center, we offer overseas university students the opportunity to learn extensively about Kyoto University, Kyoto, and Japan, and encourage our students to develop a multicultural and international mindset through lectures and cultural events.

During the 2024 academic year, we hosted one faculty member, two teaching assistants, and 49 students from the University of Florida for approximately two months, from June 3 to July 30. During their stay, the faculty members and teaching assistants from the University of Florida gave lectures open to our students, and we held calligraphy and tea ceremony classes, as well as a cultural exchange event titled "Japanese Culture Festival," providing opportunities for interaction between students of the University of Florida and our students, as well as opportunities to become familiar with Japanese culture.

We will continue to strengthen internationally oriented education in the Faculty of Engineering and the Graduate School of Engineering.



Group photo with members of the University of Florida



Calligraphy class

Kogaku Koho No. 83
International Exchange Program in Engineering with the University of Florida



Enhanced well-being environment

Two new restaurants opened on the Katsura Campus as amenity facilities in the 2024 academic year. In April 2024, the cafeteria named "cenatio silva" (Latin for "forest restaurant") opened on the first floor of the C Cluster General Research Building III (C3 Building). This cafeteria is managed and operated with the generous support of the Mori Manufacturing Research and Technology Foundation. In October 2024, a restaurant named "Lunch & Cafe Crews" opened on the first floor of the B Cluster Campus Service Center. This restaurant also functions as an employment support facility for people with disabilities (Type B continuous support for employment service). Since their opening, both establishments have been busy, attracting faculty, staff, students, and local residents. There is also a University Co-op facility on the Katsura Campus and a bakery-cafe called "Boulangerie Seri" in Cluster A. We will continue to improve the well-being of faculty, staff, and students and support educational and research activities.

Announcement of the opening of the Lunch & Cafe Crews restaurant



Presentation of certificate of appreciation to Representative Director Masahiko Mori of the Mori Manufacturing Research and Technology Foundation





Cafeteria "cenatio silva"



Restaurant "Lunch & Cafe Crews"



Acceleration Program for Reorganization of Universities and Kosen Selected for the Program for Supporting Functional Enhancement to Secure Advanced Information Specialists

The Ministry of Education, Culture, Sports, Science and Technology has established a new fund at the National Institution for Academic Degrees and Quality Enhancement of Higher Education to support the development of highly specialized professionals who will drive growth sectors such as digital technology and "green innovation." The fund aims to provide motivated universities and kosen (technical colleges) with the predictability needed to confidently implement reforms such as reorganizing their faculties and transitioning into growth fields. Kyoto University's Graduate School of Engineering (Department of Electrical Engineering and Department of Electronic Science and Engineering) and the Graduate School of Informatics collaboratively applied for the Program for Supporting Functional Enhancement to Secure Advanced Information Specialists (Support 2) through the fund's Acceleration Program for Reorganization of Universities and Kosen. Their proposed plan was selected under the high-level quota, which is designated for initiatives expected to deliver high impact in terms of both scale and quality in developing advanced information specialists. The Department of Electrical Engineering and the Department of Electronic Science and Engineering at the Graduate School of Engineering plan to offer lecture courses in mathematics, physics, and data science, as well as practical courses, such as interdisciplinary internships and dissertation research, to provide students with on-the-research training. The goal is to cultivate advanced information specialists who are solidly grounded in both the physical and information worlds, covering areas such as materials, devices, quantum technology, green technology. At the same time, students' growth will be supported by implementing a multiple supervisor system, and a diverse and comprehensive educational environment that includes collaboration with industry and overseas universities will be developed. By fostering advanced information specialists as mentioned above, we will respond to the recent societal demand for the promotion of DX and GX.

National Institution for
Academic Degrees and Quality
Enhancement of Higher
Education FY2024 selection



Universities selected for high-level quota

Selected in FY2023	Hokkaido University
	University of Tsukuba
	Shiga University
	Kobe University
	Hiroshima University
	Kyushu University
Selected in FY2024	Kumamoto University
	Kyoto University

International Exchange (Department of Environmental Engineering): Double Master's Degree Program with Tsinghua Shenzhen International Graduate School, China

To solve global environmental problems we need to develop not only human resources who can operate effectively on the global stage but also collaborate with universities and other institutions on international research. Starting in the 2022 academic year, the Graduate School of Engineering has been implementing a double degree (DD) program with Tsinghua Shenzhen International Graduate School in China, based on the strong partnership between the two schools. This joint education program allows students to earn a master's degree from both universities in three years.

The enrollment capacity of this program has been set at two students per year, shared with the Graduate School of Global Environmental Studies, which concluded a program agreement in 2018. Until the 2022 academic year, only Tsinghua University students were accepted into the program. However, from the 2023 academic year, Kyoto University has also sent one student each year for two consecutive years to participate in the program, resulting in more active exchanges. Starting in August of the first year of the master's program, the accepted students will spend one year at Tsinghua Shenzhen International Graduate School, taking courses in English and conducting master's research.

In 2005, Kyoto University and Tsinghua University jointly established the Cooperative Research and Education Center for Environmental Technology (CRECET) at Tsinghua Shenzhen International Graduate School, which is accredited as a Kyoto University On-site Laboratory. The CRECET's 20 years of activities have built up a well-established system for accepting students.

After their one-year stay at Tsinghua University, students will become interdisciplinary professionals capable of taking a leadership role in providing engineering solutions to environmental and global issues, using Shenzhen as their field of practice. This is something that could not be achieved solely through studies at Kyoto University. In addition, their communication skills will improve remarkably, both in English and Chinese.

We are committed to advancing our activities to ensure that this joint education program plays a major role in promoting research and education at both graduate schools.



Experiment at Tsinghua University (Mr. Nomura, DD program student from Kyoto University)



Discussion with Tsinghua University students (Mr. Okugawa at far right, DD program student from Kyoto University)

Double Master's Degree Program
between Kyoto University's
Graduate School of Engineering
and Tsinghua Shenzhen
International Graduate School



Schedule for Kyoto University DD program students												
First year												
4	5	6	7	8	9	10	11	12	1	2	3	
Kyoto University first semester					Tsinghua University first semester					Spring vacation (research)	Tsinghua University second semester	
Second year												
4	5	6	7	8	9	10	11	12	1	2	3	
Tsinghua University second semester			Summer vacation (research)		Summer vacation (research)		Kyoto University second semester				Research	
Third year												
4	5	6	7	8	9	10	11	12	1	2	3	
Dissertation preparation							Tsinghua University thesis examination		Dissertation preparation	Kyoto University thesis examination		

Establishment of the Next Generation Mechanics and Physics Laboratory and the Next Generation Science of Synthesis in Mechanical Engineering Laboratory

As part of Kyoto University's program to support the development of young researchers, through a donation from Kyoto Seisakusho Co., Ltd., two cross-major endowed chairs were established in the Department of Mechanical Engineering and Science on June 1, 2024. They are the Next Generation Mechanics and Physics Laboratory led by Professor (concurrent post) Hiroyuki Hirakata and the Next Generation Science of Synthesis in Mechanical Engineering Laboratory led by Professor (concurrent post) Kazuhiro Izui.

The Next Generation Mechanics and Physics Laboratory conducts research and education in fundamental mechanics that form the basis of mechanical engineering, including materials mechanics, fluid mechanics, thermodynamics, mechanical dynamics, and materials physics and engineering. The Next Generation Science of Synthesis in Mechanical Engineering Laboratory conducts research and education in synthesis science with the aim of transmitting the tangible benefits of mechanical engineering fields to society. These fields include design, manufacturing, control, information, nano- and micro-engineering, and bioengineering. These two laboratories, in collaboration with other laboratories in the mechanical engineering field, aim to foster young researchers and engineers who will contribute to the future development of mechanical engineering.

On June 1, 2024, Dr. Masaki Shimofuri was appointed as a Program-Specific Assistant Professor to the Next Generation Mechanics and Physics Laboratory, and Dr. Jike Han and Dr. Satomi Matsumoto were appointed as Program-Specific Assistant Professors to the Next Generation Science of Synthesis in Mechanical Engineering Laboratory. On July 1, 2024, Dr. Yinli Wang was appointed as a Program-Specific Assistant Professor to the Next Generation Mechanics and Physics Laboratory.

This project aims to promote fundamental research that will lay the foundation for the future development of mechanical engineering through research and education at both laboratories, student-support programs such as scholarships, and other educational and research promotion activities, and to train and produce outstanding researchers and engineers who can drive this development and collaborate across organizational boundaries, thereby transferring university knowledge to industry, creating new value, and solving societal problems.



We have reached an agreement to implement the project with a donation from Kyoto Seisakusho Co., Ltd.



Endowed chairs in the Department of Mechanical Engineering and Science, the Graduate School of Engineering, Kyoto University



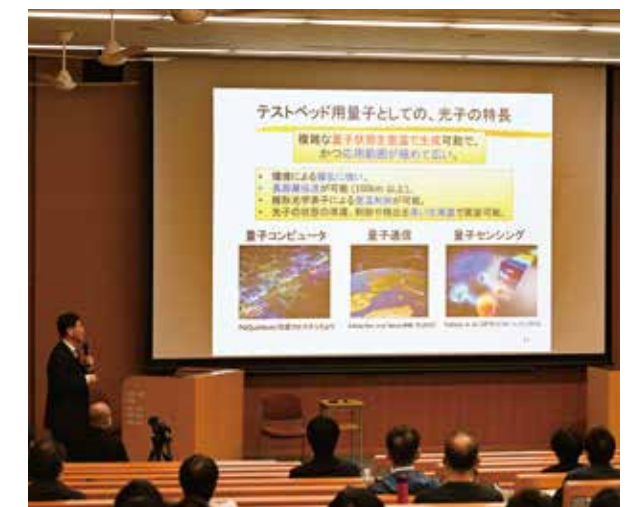
Establishment of Photonic Quantum Sensing Science and Engineering Center

Quantum particles, such as photons—the elementary particles of light—exhibit behaviors that differ from our everyday experience. One such behavior is known as "the quantum superposition state," the wonder of which is vividly described in the essay "Trial of the Photon" by Dr. Shinichiro Tomonaga, a Nobel Laureate in physics from Kyoto University. In recent years, quantum entanglement—a superposition state of multiple quanta—has garnered attention, and research into its application to quantum computers and quantum sensing is rapidly advancing.

In the Graduate School of Engineering, we have developed quantum entangled microscopy and quantum infrared spectroscopy in the field of photonic quantum sensing, making full use of quantum entangled states of light.

The research in this field made significant advances in 2018 with the support of the Ministry of Education, Culture, Sports, Science and Technology's Quantum Leap Flagship Program (Q-LEAP). The Photonic Quantum Sensing Social Implementation Consortium, established in 2023, is working on the social implementation of photonic quantum sensing.

In light of such circumstances, we established the Photonic Quantum Sensing Science and Engineering Center in April 2025 to further accelerate education and research in photonic quantum sensing. The center aspires to become a world-class hub for advancing academic research, promoting social implementation, and fostering human resource development in the field of photonic quantum sensing. It will do this by working closely with internal organizations, such as the Graduate School of Science, the Graduate School of Medicine, and the WISE Program "Innovation of Advanced Photonic and Electronic Devices," as well as with external organizations, including Quantum Technology Innovation Hubs (QIHs). Your support would be greatly appreciated.



The first public symposium of the ERATO Takeuchi Super Quantum Entanglement Project held at the Katsura Campus in March 2025, ahead of the establishment of the Photonic Quantum Sensing Science and Engineering Center.

Photonic Quantum Sensing Science and Engineering Center



Photonic Quantum Sensing Social Implementation Consortium, Kyoto University

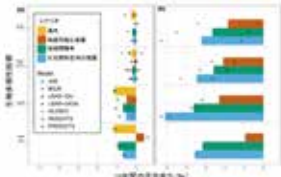


Major Research Achievements in Academic Year 2024/25

This section presents excerpts from the research results and event announcements posted on the websites of the Faculty of Engineering and the Graduate School of Engineering.

Department of Environmental Engineering

Implementation of Sustainable Development Measures Reduces Loss of Biodiversity and Improves Ecosystem Services



Changes in biodiversity and ecosystem services (functions and resources provided by ecosystems that benefit humans) from 1900 to 2050 were elucidated from a number of perspectives using multiple simulation models and indicators. Research indicates that if measures for sustainable development are implemented in the future, the decline in ecosystem regulating services of biodiversity and ecosystem can be controlled, but if land development and climate change continue at the current pace without intervention, biodiversity and ecosystem regulating services will continue to decline at a rate similar to that observed in the past. These findings highlight the importance of global efforts towards sustainable development.

Department of Architecture and Architectural Engineering

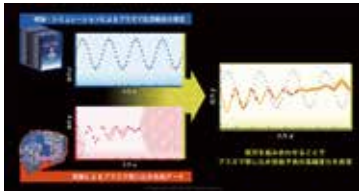
Exhibition "Home Life Diaries in Japan" was Held



Students interviewed their parents, grandparents, and others about the houses they have lived in and how they lived there, and then reproduced the floor plans of these houses. About 500 students from nine universities, including Kyoto University's Graduate School of Engineering, participated in the Dwelling Experience Interviews project. Through this initiative, over 2000 depictions of various homes and living environments were produced. The exhibition "Home Life Diaries in Japan" was held from December 2 to 15, 2024 at Gallery Nihonbashi House, and around 100 selected floor plans showcasing unique ways of living were selected for the exhibition.

Department of Nuclear Engineering at Engineering Education Research Center

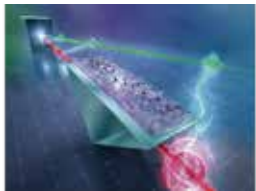
Improvement of Prediction of Fusion Plasma Confinement Performance by Data Science —Multi-Fidelity Modeling That Links Theory, Simulation, and Experiment—



This study succeeded in improving the accuracy of turbulent transport model predictions for fusion plasma using a data science technique called multi-fidelity modeling. This modeling method combines large amounts of low-precision data with small amounts of high-precision data to improve the accuracy of overall predictions. This approach allows us to combine the advantages of simulation predictability and the quantitative reliability of experimental data, something that has been difficult to do in the past, and is expected to help us predict the performance of future fusion reactors and improve their designs.

Department of Electronic Science and Engineering

Development of a New Quantum Infrared Spectrometer Using the Attenuated Total Reflection Method —A Compact and Portable Instrument—



Quantum infrared spectroscopy using quantum entangled light enables infrared spectroscopy with only visible light sources and detectors. This technology is attracting attention because it is expected to significantly reduce the size, increase the sensitivity, and lower the cost of spectrometers. In this study, we successfully realized quantum infrared spectroscopy using the attenuated total reflection method, in which samples with uneven surfaces can be measured by pressing them against a prism. This method facilitates easy measurement of a variety of samples, including thick ones that were previously difficult to measure. These findings are expected to advance the development of compact and portable quantum infrared spectroscopy systems for a wider range of applications.

Department of Polymer Chemistry

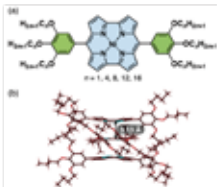
Synthesis of Poly(vinyl alcohol) with Branched Structures —Creation of Polymeric Materials with New Properties Using Boron—



Poly(vinyl alcohol) (PVA) is a water-soluble polymer with many uses not only in daily life but also in advanced research. Typical PVA, obtained by the radical polymerization of vinyl acetate followed by hydrolysis, has a linear chain structure. In this study, vinylboronic acid pinacol ester, in which boron is directly bonded to a vinyl group and which has rarely been used as a monomer, was subjected to radical polymerization, followed by oxidation of the carbon-boron bond in the side chain. As a result, PVA with a highly branched structure could be obtained.

Department of Molecular Engineering

Successful Formation of Liquid Crystalline Materials Composed of Antiaromatic Molecules —Unique Aggregated Structure Interplaying with High Electrical Conductivity—



In this study, we designed anti-aromatic norcorrole molecules with controlled periphery, serving as a new class of liquid crystalline molecular materials. The representative triple-decker structures, thanks to antiaromatic nature, have provided remarkably efficient charge transporting pathways along the stacking axes. The present molecular design and assembly systems lead to the novel optoelectronic molecular materials as future candidates in organic electronics.

You can access the details of each research outcome by scanning the corresponding QR code, which will take you to the Kyoto University Engineering website.

3 Endowed Courses and Joint Industry-Academia Courses

With the aim of advancing and enhancing education and research at the university, by accepting scholarship donations from the private sector and other sources, we have been able to establish and run endowed courses or endowed research divisions with due consideration given to ensuring that the autonomy of Kyoto University is fully maintained.



Endowed courses

Disaster Risk Management Engineering (JR West)

Donor West Japan Railway Company **Laboratory website**
Affiliated department Department of Civil and Earth Resources Engineering



Advanced Smart Sensing (Sony Semiconductor Solutions)

Donor Sony Semiconductor Solutions Corporation
Affiliated department Photonics and Electronics Science and Engineering Center

Laboratory of Non-ferrous Extractive Metallurgy

Donor Mitsubishi Materials Corporation **Laboratory website**
Affiliated department Department of Materials Science and Engineering



Fundamental Glass Science

Donor Nippon Electric Glass Co., Ltd. **Laboratory website**
Affiliated department Department of Material Chemistry



Advanced Electric Machinery Engineering for Sustaining Global Environment

Donor Nidec Corporation **Laboratory website**
Affiliated department Department of Electrical Engineering



Global Environmental System Course Endowed by Sumitomo Electric Industries Group CSR Foundation

Donor Sumitomo Electric Industries Group CSR Foundation **Laboratory website**
Affiliated department Department of Environmental Engineering



Kyoto Seisakusho - Next Generation Science of Synthesis in Mechanical Engineering Laboratory Kyoto Seisakusho - Next GenerationMechanics and Physics Laboratory

Donor Kyoto Seisakusho Co., Ltd. **Laboratory website**
Affiliated department Department of Mechanical Engineering and Science, Department of Micro Engineering, and Department of Aeronautics and Astronautics



Joint industry-academia courses

- Flow-Type Energy Storage Laboratory
- Collaborative Laboratory for Evolutionary Mechanical System Technology (Mitsubishi Electric Corporation)
- Collaborative Laboratory for Solid-Type Battery System Design
- Decarbonization Engineering Laboratory
- Sumitomo Metal Mining Industry - Collaborative Laboratory for the Effective Use of Carbon Dioxide
- Mitsui Chemicals and Kyoto University - Collaborative Laboratory for Digital Chemistry



4 History

Kyoto Imperial University was founded on June 18, 1897, and Kyoto University began as the College of Science and Engineering (the predecessor of the College of Science and Engineering). In this sense, the history of Kyoto University is also the history of the Faculty of Engineering. This section looks back on the past and present of Kyoto University's School of Engineering, focusing on the changes in departments and majors.

Kyoto Imperial University established
College of Science and Engineering established

- 1897 Civil Engineering and Mechanical Engineering courses established
- 1898 Electrical Engineering, Mining and Metallurgy, and Manufacturing Science
- 1914 College of Science and Engineering divided into College of Science and Civil Engineering, Mechanical Engineering, Electrical Engineering, Mining
- 1919 College of Engineering became Faculty of Engineering
- 1920 Architecture & Architectural Engineering course established

- 1939 Fuel Chemistry course established
- 1940 Chemical Engineering course established
- 1941 Textile Chemistry course established
- 1942 Mining & Metallurgy course divided into Mining and

Kyoto Imperial University changed it's name to Kyoto University

Launch of the new Kyoto University

- 1946 Aeronautical Engineering course abolished,
- 1947
- 1949
- 1953 Graduate School of Engineering established
- 1954 Electronic Science & Engineering
- 1955 Applied Physics course renamed
- 1957 Department of Nuclear
- 1958 Nuclear Engineering, and
- 1959 Applied Mathematics &
- 1960 Precision Mechanics and
- 1961 Electrical Engineering to Polymer Chemistry
- 1962 Mechanical
- 1963 Transportation
- 1964 Architecture
- 1966 Reorganized

1970

1975

1983

1987

Completed prioritization of graduate

school

1996 Reorganization of Civil, Environmental and Resources Engineering system and Architecture and Architectural Engineering system

Katsura Campus

established

2003 Reorganization of Civil, Environmental and Resources Engineering system and Architecture and Architectural Engineering system. Renaming of Electrical and Electronic Engineering system. Electrical and Electronic Engineering system and Chemical Science and Technology system moved to A Cluster

2004 Architecture and Architectural Engineering system moved to C Cluster in Katsura Campus

2005 Reorganized of Engineering Science system

2006 Civil, Environmental and Resources Engineering system moved to C Cluster in Katsura Campus

2013 Engineering Science system moved to C Cluster

Katsura Library established

2020

2024 Undergraduate Department of Industrial Chemistry renamed Undergraduate School of Chemical Science and Technology.



Civil, Environmental and Resources Engineering system

Faculty of Engineering:
Undergraduate School of Civil, Environmental and Resources Engineering

Graduate School of Engineering:
Department of Civil and Earth Resources Engineering
Department of Urban Management
Department of Environmental Engineering

Architecture and Architectural Engineering system

Faculty of Engineering:
Undergraduate School of Architecture

Graduate School of Engineering:
Department of Architecture and Architectural Engineering

Engineering Science system

Faculty of Engineering:
Undergraduate School of Engineering Science

Graduate School of Engineering:
Department of Mechanical Engineering and Science
Department of Micro Engineering
Department of Aeronautics and Astronautics
Department of Nuclear Engineering
Department of Materials Science and Engineering

Electrical and Electronic Engineering system

Faculty of Engineering:
Undergraduate School of Electrical and Electronic Engineering

Graduate School of Engineering:
Department of Electrical Engineering
Department of Electronic Science and Engineering

Chemical Science and Technology system

Faculty of Engineering:
Undergraduate School of Chemical Science and Technology

Graduate School of Engineering:
Department of Material Chemistry
Department of Energy and Hydrocarbon Chemistry
Department of Molecular Engineering
Department of Polymer Chemistry
Department of Synthetic Chemistry and Biological Chemistry
Department of Chemical Engineering

Establishment of the related Graduate Schools

- 1996 Graduate School of Energy Science
- 1998 Graduate Schools of Informatics
- 2002 Graduate Schools of Global Environmental Studies

Nobel laureates produced by the Graduate School of Engineering

- 1981 Chemistry Kenichi Fukui (Professor Emeritus)
- 2001 Chemistry Ryoji Noyori (alumni)
- 2019 Chemistry Akira Yoshino (alumni)



5 Organization

Kyoto University Engineering has the largest number of Undergraduate Schools and Departments in the University.



Yasuto Tachikawa
Dean
(Department of Civil and Earth Resources Engineering, Professor)
立川 康人



Masahiro Hasuo
Vice Dean
(Department of Mechanical Engineering and Science, Professor)
蓮尾 昌裕



Takeshi Abe
Vice Dean
(Department of Energy and Hydrocarbon Chemistry, Professor)
安部 武志



Daisuke Ogura
Vice Dean
(Department of Architecture and Architectural Engineering, Professor)
小椋 大輔



Takehiko Yokomine
Vice Dean
(Department of Nuclear Engineering, Professor)
横峯 健彦



Yoshikazu Takahashi
Vice Dean
(Department of Civil and Earth Resources Engineering, Professor)
高橋 良和



Takuya Sakamoto
Vice Dean
(Department of Electronic Science and Engineering, Professor)
阪本 卓也



Eiichi Fukuyama

Yasuto Tachikawa, Dean of the Graduate School of Engineering/Vice Dean/Directors of the Administration Office (Graduate School of Engineering), Katsura Campus

Administration Office (Graduate School of Engineering), Katsura Campus

(As of April 1, 2025)

General Affairs Division	Financial Management Division	Accounting Division	Educational Affairs Division	Promotion of Science and Technology Division
General Affairs Section Planning and Public Relations Section Personnel Affairs Section Academic Information Section User Support Section General Affairs Section, A Cluster Office General Affairs Section, C Cluster Office	Financial Affairs Section Financial Analysis and Evaluation Section Environment Management Section Facility Management Section	Contract Section University Budget and Donation Fund Section Travel Expense and Honorarium Section	Undergraduate Student Section Graduate Student Section Foreign Student Section Graduate Student Section, A Cluster Office Graduate Student Section, C Cluster Office	Research and International Affairs Section Industry Academia Exchange Section Industry Academia Cooperation Section Governmental Research Grant Section Research Facility Support Section

Technical Office, Graduate School of Engineering, Kyoto University

(As of April 1, 2025)

Faculty of Engineering Chairperson of Undergraduate School	Graduate School of Engineering Chairperson of Department	
Undergraduate School of Civil, Environmental and Resources Engineering Masaki Takaoka	Department of Civil and Earth Resources Engineering	Eiichi Fukuyama
	Department of Urban Management	Masamitsu Onishi
	Department of Environmental Engineering	Shinichiro Fujimori
Undergraduate School of Architecture Yoshiyuki Tomishima	Department of Architecture and Architectural Engineering Yoshikazu Araki	
Undergraduate School of Engineering Science Atsushi Matsubara	Department of Mechanical Engineering and Science	Koji Nagata
	Department of Micro Engineering	Toshiyuki Tsuchiya
	Department of Aeronautics and Astronautics	Kenji Fujimoto
	Department of Nuclear Engineering	Tatsuya Hinoki
Undergraduate School of Electrical and Electronic Engineering Hiroshi Shimoda	Department of Materials Science and Engineering	Kyosuke Kishida
	Department of Electrical Engineering	Kazuyoshi Yoshii
Undergraduate School of Informatics and Mathematical Science Toshio Aoyagi	Department of Electronic Science and Engineering	Masashi Shiraishi
Undergraduate School of Chemical Science and Technology Tomoki Ogoshi	Department of Material Chemistry	Yoshiaki Nakao
	Department of Energy and Hydrocarbon Chemistry	Ryu Abe
	Department of Molecular Engineering	Kentaro Teramura
	Department of Polymer Chemistry	Yo Nakamura
	Department of Synthetic Chemistry and Biological Chemistry	Michinori Suginome
	Department of Chemical Engineering	Katsuaki Tanabe

(As of April 1, 2025)

Research and Educational Facilities and Centers	Director
Photonics and Electronics Science and Engineering Center	DE ZOYSA, Menaka
Research Center for Environmental Quality Management	Sadahiko Itoh
Quantum Science and Engineering Center	Manabu Saito
Katsura Int'tech Center	Takeshi Abe
Center for Information Technology	Sadayoshi Murakami
Occupational Health, Safety and Environmental Management Center	Tetsuo Sakka
Engineering Education Research Center	Takehiko Yokomine
Research Administration Center	Takeshi Abe
Interdisciplinary Research Institute for the Next Generation	Takehiko Yokomine
Photonic Quantum Sensing Science and Engineering Center	Shigeki Takeuchi



Faceplate of Katsura Campus

6 Undergraduate Schools of the Faculty of Engineering

Civil, Environmental and Resources Engineering

Rational Development and Conservation of the Earth

Civil, Environmental and Resources Engineering encompasses various technological systems and interdisciplinary fields essential for supporting both our daily lives and cutting-edge technologies. This includes the development of resources and energy, the advancement of infrastructure that sustainably supports society, and the maintenance of an environment that allows people to coexist with nature. Based on the think globally and act locally philosophy, this school provides an education that cultivates insight into a comprehensive understanding of a wide range of science and technology. The courses foster ability through advanced research and practical work that encourages rational development as well as the conservation of the planet and the sustainable development of humankind. Also offered is an international course where all lectures are given in English, essential for developing globally minded engineers.



Read more

Architecture

The Pursuit of Human Technologies

Architecture—the way we shape our living environment and the foundation for developing a safe, healthy, and comfortable life—is created by combining diverse technologies. Architecture is considered the technology that is most deeply rooted in all facets of human existence. The Undergraduate School of Architecture welcomes students with a strong interest in the humanities, social sciences, and arts, as well as the natural sciences, helping them to develop their talents. Graduates have gone on to become architects, structural engineers, architectural administration officers, university and corporate researchers, consultants, and planners, among other professions.



Read more

Engineering Science

Cultivating Human Resources for the Creation of New Technologies

The field of engineering science is expected to help resolve issues for traveling in outer space as well as the development of new systems, materials, and energy sources for the 21st century and beyond. To create novel technologies that can meet these needs, the Undergraduate School of Engineering Science provides an education and conducts research that emphasizes the need to gain a firm grasp of the fundamentals. In addition, the five courses—Mechanical and Systems Engineering, Materials Science, Aeronautics and Astronautics, Nuclear Engineering, and Applied Energy Science and Engineering—work together to equip students with a high level of professional competence and a broad perspective.



Read more

Electrical and Electronic Engineering

Science and Technology Supporting Industry and Living Infrastructure

Electrical and electronic engineering not only supports the science and technology essential for industries and the social infrastructure in modern society, it also plays an important role in enriching the 21st century. For this reason, the Undergraduate School of Electrical and Electronic Engineering nurtures individuals with comprehensive knowledge spanning a wide range of fields, a high level of expertise, a multifaceted perspective, exceptional originality, and high ethical standards. The curriculum includes the fundamentals, followed by specialized courses based on the student's own goals. Through these four years of study, students acquire the knowledge and skills necessary to contribute to the advancement of electrical and electronic engineering, while getting a thorough understanding of cutting-edge science and technology.

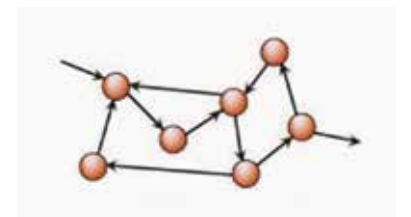


Read more

Informatics and Mathematical Science

Solving Complex System Problems

Advances in today's information-oriented society have elevated the need to analyze mathematical models that appear in diverse fields, as well as to analyze and use the vast quantities of big data collected by complex information systems. For this reason, it is important to have the mental capacity to investigate not only the function of the system, but also the nature of the "information" that flows through it, and to use that information to create efficient designs. In the Undergraduate School of Informatics and Mathematical Science, students learn to use a mathematical approach to solve real-world problems involving complex systems, as well as to design and use computer hardware, systems software, and information systems.

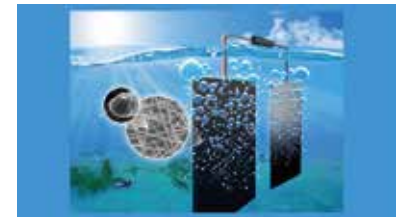


Read more

Chemical Science and Technology

Serving as the Foundation for Cutting-Edge Science and Technology

Chemistry is the study of reactions and processes that create various substances, as well as the functions and physical properties of substances. In order to create a sustainable society, the Undergraduate School of Chemical Science and Technology promotes the development of a creative form of basic science and advanced technology, as well as research in interdisciplinary fields, to address global- and space-scale issues. The school provides an education with an emphasis on basic science and engineering in a wide range of chemistry-related fields, and cultivates scientists, researchers, and engineers who can play an active role in various areas of chemistry that support society, such as the creation of materials and their various functions, the use of energy, and the understanding and application of life and biological systems.

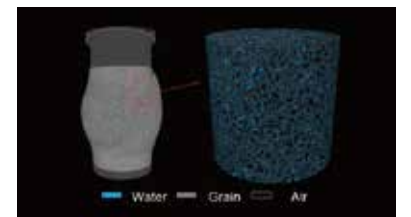


Read more

7 Departments of the Graduate School of Engineering

Civil and Earth Resources Engineering

Technological innovation that targets areas where people operate and the social infrastructure is a must for opening up new industries and cultures, harmonizing with the environment, and creating a sustainable society that is safe, secure, and vibrant. The Department of Civil and Earth Resources Engineering contributes to the development of science and technology to support the growth of the social infrastructure. This Department emphasizes cutting-edge technologies; the realization of safe, secure, and environmentally harmonious social infrastructure; and the sustainable use of underground resources. The Department accomplishes these tasks by focusing on a thorough understanding of global environmental and energy issues, and by equipping students with the fundamental engineering skills needed to pioneer new technologies from an international and multilayered perspective. We also equip students with the skills they need to solve real-world problems.



Read more

Urban Management

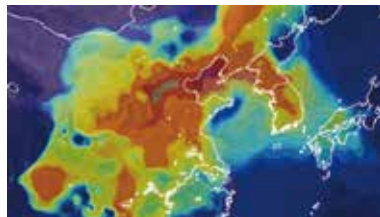
The Department of Urban Management strives to integrate technologies for advanced information and communications as well as social and energy infrastructure to help create an urban social system that can deliver an advanced and abundant quality of life. Specifically, the Department aims to establish the methodology and techniques for analyzing urban activities such as urban engineering, traffic engineering, logistics engineering, and earth resource engineering; urban and transportation planning; upgrading social infrastructures related to lifelines, ground, rivers, etc. to realize safe and sustainable urban systems; and for establishing a new theory of urban energy resources under the concepts of urban governance and urban infrastructure management. The Department also aims to establish the methodology and techniques for comprehensive management of urban systems, including sustainability assessments.



Read more

Environmental Engineering

Global environmental issues, such as climate change, show that the evolution of humanity, once advanced by science, has reached its limitations on a global scale. In addition, there are still societies that have rapidly growing populations and unmet needs for human security, while others are faced by an aging population and diversifying values. The Department of Environmental Engineering, in response to the demand for solutions to these problems, collaborates with internal and external relevant organizations, faculties, and departments to promote education and research that targets a wide range of environmental fields, from individual living spaces to regional and global ecosystems. This department focuses on resolving apparent and potential regional environmental issues, ensuring healthy environments, creating sustainable global and regional ecosystems, and developing a new environmental science.


[Read more](#)


Architecture and Architectural Engineering

Architecture and architectural engineering are multifaceted fields of study that look at humanity by taking on the responsibility for the ongoing evolution of the global environment and the creation of culture. The Department of Architecture and Architectural Engineering works on designing diverse architectural spaces with advanced functionality that are safe and secure, while encouraging the creation of culture. The overall goals are to promote education and advance research in the fundamental fields of planning, structures, and the environment, as well as education and research where students can redefine architecture within the context of natural and living environments in a comprehensive, practical way, while acquiring a wide range of specialized skills and creativity across disciplines, unrestricted by existing specialized fields.


[Read more](#)

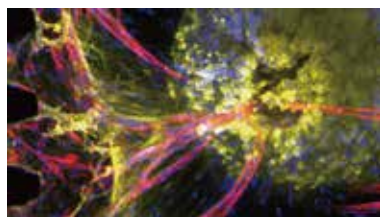

Mechanical Engineering and Science

Mechanical engineering focuses on a broad spectrum of physical systems—from the microscopic to the macroscopic—in order to develop technologies that benefit people in areas related to production systems, energy, the environment, lifestyles, life, living organisms, and medicine. The foundational disciplines are the mechanics of materials, heat, and fluids, as well as solid state physics, mechanical dynamics, vibration engineering, and control engineering. The foundation further requires the application of engineering concepts related to the design, manufacturing, evaluation, diagnosis, and control of mechanical systems and their elements. The Department of Mechanical Engineering and Science conducts research and educates students based on these concepts from a far-reaching perspective that aims for the symbiosis of people and nature. This department also aims to equip engineers and researchers with the ability to define and develop solutions to challenging problems as well as the leadership skills and adaptability to meet the requirements and expectations of society industry and academia.


[Read more](#)

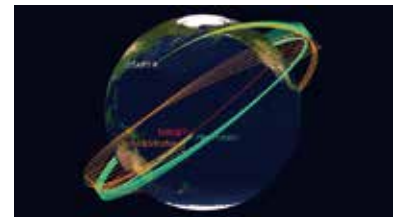

Micro Engineering

The Department of Micro Engineering offers an education and research program for equipping researchers and engineers with the ability to research and develop the micro-mechanical systems that are anticipated to be a key driving force behind major changes in communities and lifestyles in the 21st century. Based on a fundamental knowledge of mechanical engineering, microengineering includes quantum engineering, required to clarify physical phenomena specific to the micro range (from the nanometer to micrometer order) and to use the quantum effects expressed at the nanometer level; material and micromachining engineering at the microscopic level to create and process materials; and system engineering and control engineering to build and manipulate nano- and microsystems. As well, this department uses the disciplines required for clarifying the functions of living organisms and for applying molecules and cells by studying living organisms, which are the assemblies of the most precise micromachines.


[Read more](#)

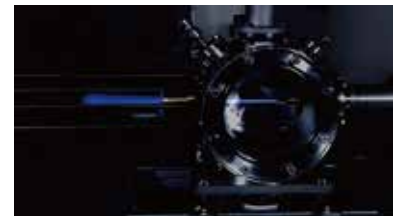

Aeronautics and Astronautics

Research in the Department of Aeronautics and Astronautics is broadly divided into these areas: interaction with the aerospace environment related to spacecraft or aircraft navigation; propulsion and energy; materials and structural strength; and systems and controls. In order to pioneer the frontier of aeronautics and astronautics, fundamental science and engineering are given the highest priority. In other words, our first mission is to expand the possibilities of advanced engineering beyond aeronautics and astronautics. Our second mission is to foster scientific and engineering professionals fully capable of creating original ideas based on in-depth knowledge.


[Read more](#)

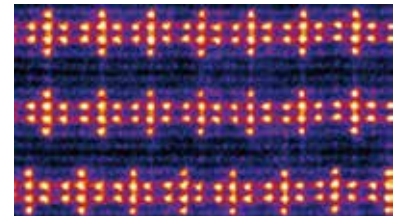

Nuclear Engineering

The Department of Nuclear Engineering pursues the ground-breaking science of quantum technologies, such as quantum beams, nanotechnology, and atom technology from a microscopic viewpoint founded on the science of elementary particles, atomic nuclei, atoms, and molecules. This department also aims to build a circular economy by implementing engineering applications for substances, energy, life, the environment, and other domains. In addition, the Department of Nuclear Engineering cultivates human resources, such as advanced researchers and highly specialized engineers, through education and research that is both systematic and multi-dimensional. This type of research and education contributes to the more prosperous and sustainable growth of society.


[Read more](#)


Materials Science and Engineering

Materials science and engineering is the field of study and technology to create novel materials (in particular crystalline hard matter) required for producing new things that do not exist yet. For example, from iron which would rust and decompose if left untreated, the creation of special steels with various exceptional properties, including rust-resistant stainless steel, led to a drastic change of design for machinery and building structures throughout the world. As seen in history to date, the emergence of new materials causes a paradigm shift in the development of innovative technologies. The Department of Materials Science and Engineering promotes diverse fundamental research aimed at the development and practical application of structural and functional materials.


[Read more](#)

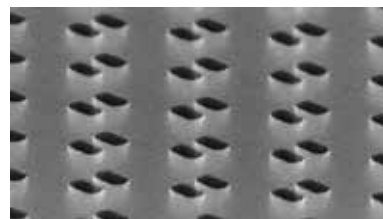

Electrical Engineering

Electrical engineering is a fundamental field of study for the use of electrical and electronic-related technologies in every corner of society. For example, electrical engineering has given us electric vehicles and wind power generation—both expected to contribute to the realization of a decarbonized society. Communications technology is also founded on electrical engineering: electromagnetic waves are producing achievements such as the fifth generation of mobile communications technology, also known as 5G. These are just a few examples of the fields covered by electrical engineering. The Department of Electrical Engineering educates and conducts research in a wide range of fields through four chairs (Advanced Electrical Systems Theory, Fundamentals of Systems, Biomedical Engineering, and Electromagnetics Engineering), as well as a cooperating chair and an endowed chair.


[Read more](#)

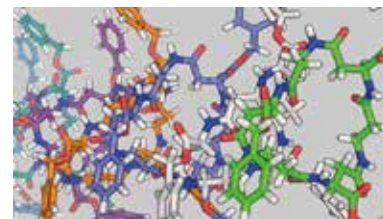

Electronic Science and Engineering

The Department of Electronic Science and Engineering contributes to society by establishing key technologies that will support optoelectronics for the next generation. The Department proposes new concepts based on the keywords of light and electron while promoting education and research that helps create innovative materials and devices based on these concepts. In our quest to find the best way to control light, we are doing world-leading research in many areas. For example, we made short-pulse, high-peak-power photonic crystal lasers that break the rules for conventional semiconductor lasers. We are also uncovering the properties of new wide-bandgap semiconductor materials to design and fabricate power electronics devices that use these materials. And we are elucidating the light emitting mechanism in semiconductors at the nano level as well as their application in highly efficient light emitting devices.


[Read more](#)

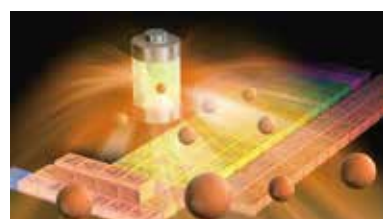

Material Chemistry

Chemistry is evolving into an academic discipline that includes techniques for creating new substances as well as investigations into the background and properties of a substance's molecules and its unique functions. The research and education provided by the Department of Material Chemistry focuses on inorganic, organic, polymeric, and nanomaterials. The goals are to chemically design materials with novel functions and properties while investigating their structure, properties, and reactivity at the molecular and nano levels as well as establishing the methods for creating these materials. To promote the development of novel functional materials based on integrated science, the department participates in intra- and extradepartmental research exchanges and is developing the framework for more cooperative research.


[Read more](#)


Energy and Hydrocarbon Chemistry

Chemistry is a discipline that clarifies previously unknown phenomena in natural science through experimentation and theory, then establishes new principles. This discipline is responsible for relaying the results in way that is useful to people and society. The Department of Energy and Hydrocarbon Chemistry promotes research into the highly efficient recycling of resources by effectively passing on an understanding of basic chemistry and constructing new scientific principles, then using this understanding as the foundation for creating highly original and academically significant innovative technologies that achieve the extremely efficient conversion of matter and energy. Through these studies, the Department consistently cultivates exceptional students who can independently find and investigate problems, then resolve these problems while maintaining high ethical standards.


[Read more](#)


Molecular Engineering

Chemistry, a discipline that deals with converting substances, is steadily growing to include the design of molecules and materials with novel functions. The academic study of a substance helps to determine its properties in relation to electronic structure, molecular arrangement, and interactions. Molecular engineering is a new academic field founded on the fundamental study of microscopic phenomena such as atoms, molecules, and polymers. The ultimate goal is to theoretically and experimentally elucidate the interactions among atoms, molecules, and polymers and then directly apply these results to engineering at the molecular level. The Department of Molecular Engineering conducts fundamental research, from a theoretical molecular perspective, to help develop new electronic materials and other materials for energy and information applications. We cultivate researchers and engineers who can apply innovative ideas to develop these fundamentals into real-world applications.


[Read more](#)

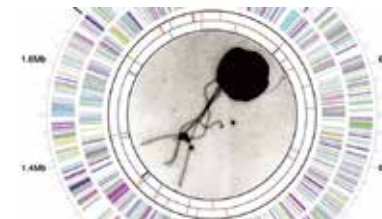

Polymer Chemistry

Polymer chemistry is a field of study that merges material science as a fundamental discipline with applied science for practical requirements. This branch of chemistry includes a wide spectrum of fields from a variety of perspectives, including fundamental to applied science, synthesis to physical properties, theory to experiment, organic to inorganic, micro to macro, and so on. The Department of Polymer Chemistry conducts basic research and education on the formation, reaction, structure, properties, and functions of polymers to support fields where advanced applications for polymers are steadily emerging, such as optoelectronics, electronics, information technology, high-performance materials, regenerative medicine, and nanotechnology. The department also contributes to the creation of new science and technology by relaying these achievements to society and by collaborating with related academic fields. The department equips researchers and engineers with the skills necessary to work constructively in advanced polymer-based fields.


[Read more](#)


Synthetic Chemistry and Biological Chemistry

The philosophy of the Department of Synthetic Chemistry and Biological Chemistry is to create an interdisciplinary field of synthetic chemistry, or the study of creating a variety of substances and functions, as well as biological chemistry, which clarifies and uses biological functions. We use a close collaboration to establish a highly creative field of chemistry that is comprehensive and precise. The goal of the Chair of Synthetic Chemistry and Chair of Organic System Design is to illuminate the fundamentals and applications of material conversion aimed at efficient synthesis, the functions of inorganic and organic complex molecular assembly systems, and the correlation between the structure of molecules and molecular aggregates as well as their reactivity and physical properties. The goal of the Chair of Biological Chemistry is to understand and control biological phenomena at the molecular level within various hierarchies, such as molecules, systems, cells, and organisms (individuals), as well as to use biological functions and biomaterials to create substances with novel functionality.


[Read more](#)


Chemical Engineering

Chemical engineering is a discipline where elemental phenomena are extracted from target processes and quantitatively evaluated to determine their essential nature and dynamic properties. Chemical engineers construct optimal systems, search for methods to improve the functionality of substances and materials, then efficiently produce materials and energy. They create substances and materials that are useful for humankind through chemical conversions, and also propose environmentally friendly and efficient methods for producing substances, materials, and energy. The Department of Chemical Engineering teaches and conducts research on these topics.


[Read more](#)


8 Research and Educational Facilities and Centers

Photonics and Electronics Science and Engineering Center

Towards the Establishment of a Center of Excellence (COE) for Development and Social Implementation of State-of-the-art Photonic/Electronic/Quantum Technologies and the Formation of an Advanced Education and Research Center for Pioneering Academic Science

The purpose of this center is to establish a center of excellence (COE) for development and social implementation of state-of-the-art photonic/electronic/quantum technologies and to establish advanced education and research center for pioneering academic science.


[Read more](#)


The 21st century has been called the age of photonic, electronic, and quantum technologies. In order to realize the sustainable development in a world with ever-increasing demands for information processing and energy, it is essential to realize a super-smart society (Society 5.0) that highly integrates real space and virtual space, and to achieve carbon neutrality. For this purpose, realization of autonomous driving (smart mobility), smart manufacturing, quantum computation, and energy efficiency are of paramount importance, which require innovations for photonic, electronic, and quantum technologies. By bringing together academic members with education and research backgrounds on basic physics and industrial members with a strong desire for social development, this center aims to establish a COE for development and social implementation of state-of-the-art photonic/electronic/quantum devices that leverage the core technologies for which Kyoto University is globally renowned, such as "photonic crystals," "photonic nanostructures," and "wide-bandgap materials". Furthermore, from 2022, the scope of activities has been expanded even further with a newly endowed course named "Advanced Smart Sensing (Sony Semiconductor Solutions) Course". In addition, this center also plays a role of education in the WISE program "Innovation of Advanced Photonic and Electronic Devices", where the center aims to build an advanced education and research center for pioneering academic science in the fields of photonics, electronics, and quantum physics, in collaboration with the Graduate School of Informatics and the Graduate School of Science.

Research Center for Environmental Quality Management

Improving Environmental Quality by Controlling, Evaluating, and Mitigating Harmful Substances

The Research Center for Environmental Quality Management (RCEQM) focuses on environmental quality. The goals are to include engineering research with a more evolved education on the harmful effects of environmental pollutants on people and ecosystems under an integrated collaboration in three areas: control, evaluation, and mitigation. The RCEQM has a unique system for inviting professors from outside of Japan. The expectations for the achievements of the RCEQM are high, considering the increased global awareness of issues that directly affect people and ecosystems combined with the current recognition that even the slightest change to the environment has serious cumulative effects.

[Read more](#)

Quantum Science and Engineering Center

Nanoscale Science Research Using Particle Beam Accelerators.

The Quantum Science and Engineering Center (QSEC) uses high-performance quantum beams—such as ion beams, electron beams, and X-rays from particle accelerators—to explore atomic-scale phenomena and to advance the development of novel materials and devices. Through these endeavors, the center aspires to contribute to a wide range of fields, including materials science, medicine, energy, environment, and space science. As a joint-use facility open to researchers from both inside and outside the university, the center actively supports cutting-edge research and education through ion beam analysis and materials irradiation. Basic research on nuclear fuel cycle technology is also being carried out at the co-located nuclear fuel facility.

We leverage state-of-the-art accelerator technology to support pioneering research that paves the way to the future.

[Read more](#)

Katsura Int'tech Center

Innovating Fundamental Engineering Technologies and Inventing New Technologies that Lead the World by Combining Wisdom and Intelligence Across Disciplinary Boundaries.

The Center, with multiple research divisions drawing from various departments and graduate schools, pursues pioneering strategic research and research exchanges with external organizations from a global perspective with great expectations for results. The Center's building, which has three floors above ground and one below, also houses various project groups that explore new engineering possibilities on a daily basis.

[Read more](#)

Center for Information Technology

The Construction and Operation of IT Systems for Educational Activities, Research, and Administrative Affairs

The Center for Information Technology was established with the aim of efficiently managing the information systems of the Graduate School of Engineering. The Center is responsible for the construction and management of IT systems for all educational, research, and administrative affairs, as well as for information security management and IT support. The Center also contributes to university-wide information systems by developing novel IT systems.

[Read more](#)

Occupational Health, Safety and Environmental Management Center

Ensuring a Comfortable Environment for the People Studying and Working at the Graduate School of Engineering

The aim of the Center is to incorporate the Graduate School of Engineering into an eco-friendly campus for education and research, while fully considering both safety and public health. The Center complies with the Industrial Safety and Health Act and other safety and health-related laws and regulations, while carrying out centralized operations for environmental protection. The Center also supports the education and research of the Graduate School of Engineering by providing faculty and technical staff who have expertise in work and working environment management, as well as health management, through work environment monitoring and systems for handling chemical substances.

[Read more](#)

Engineering Education Research Center

We will further innovate engineering education and strengthen international education.

The mission of the Engineering Education Research Center is to establish a solid foundation for the future of engineering education by promoting the innovation of engineering education and by strengthening a globally minded education at Kyoto University Engineering. The end goal is to respond effectively to the diverse circumstances surrounding engineering education.

[Read more](#)

The Center is responsible for Faculty Development (FD) of junior faculty members and common courses for Kyoto University Engineering. To internationalize education at the university and develop global human resources, the Center uses EdTech (educational technology) to offer an advanced education for international students; promotes study abroad and fixed-term overseas study programs for students and young researchers; and proactively and strategically develops international partnerships through the onsite lab system and the double degree program.

The Center also promotes entrepreneurship education that fosters social awareness and cultivates an entrepreneurial mindset, implementing it as common courses at undergraduate and graduate levels, respectively.

Research Administration Center

Supporting Various Research-Related Tasks.

This center was established to support researchers conducting various research tasks as part of the project titled "Development Project to Foster and Secure Research Administrators" launched by the Ministry of Education, Culture, Sports, Science and Technology (MEXT).

We help researchers obtain competitive funding, manage projects, and promote industry-government-academia collaborations.

[Read more](#)

Interdisciplinary Research Institute for the Next Generation

Developing Human Resources Capable of Transcending Organizational Boundaries

The Interdisciplinary Research Institute for the Next Generation (iRING) was established with the aim of nurturing the next generation of researchers, grounded in the acquisition and application of new, convergence knowledge. In addition to setting up a platform for collaboration that crosses departmental boundaries, the institute also co-hosts seminars with other faculties and organizes networking events with companies to promote active, research-centered interdisciplinary exchange. These diverse activities are expected to lead to the creation of new interdisciplinary research.

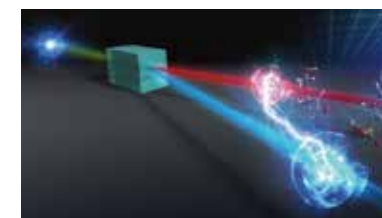
[Read more](#)

Photonic Quantum Sensing Science and Engineering Center

We promote education and research in photonic quantum sensing with quantum-entangled light, in collaboration with internal and external partners, aiming to advance academic understanding and foster societal implementation.

Quantum science and technology is advancing rapidly. In particular, by harnessing forms of light—such as quantum-entangled light—that defy description by classical electromagnetism, photonic quantum sensing enables us to exceed the sensitivity limits of conventional optical sensing and unlock new capabilities. At Kyoto University, as a world pioneer, we have developed quantum entangled microscopy and quantum infrared spectroscopy. In 2023, the Photonic Quantum Sensing Social Implementation Consortium was established at the Graduate School of Engineering in cooperation with the Office of Institutional Advancement and Communications, and has been working on the social implementation of photonic quantum sensing.

The Photonic Quantum Sensing Science and Engineering Center aims to become a world-class hub for academic advancement, social implementation, and human resource development in the field of photonic quantum sensing. To achieve these goals, the center will work closely with internal organizations, such as the Office of Research Acceleration, the Office of Institutional Advancement and Communications, the Graduate Schools of Science and Medicine, as well as with external organizations, including Quantum Technology Innovation Hubs (QIHs). The center will also promote education related to photonic quantum sensing in collaboration with the WISE Program "Innovation of Advanced Photonic and Electronic Devices" and other entities.

[Read more](#)

9 International Exchanges

Kyoto University Engineering promotes international exchanges for education and research that contribute to the global community through academic studies and research. The goals of these exchanges are working to advance science and technology in harmony with nature with a focus on basic research; developing human resources equipped with high levels of expertise and ethical standards; providing an excellent education; and nurturing originality.

As of May 1, 2025

- Partner institution
- Overseas research base
- Kyoto University-Tsinghua University Cooperative Research and Education Center for Environmental Technology (CRECET), an onsite laboratory of Kyoto University

Scan this QR code for more information on international exchange agreements and international partner institutions (academic exchange agreements and student exchange agreements).

Europe (including new independent states) (9)	Partner institution (16)	Academic exchange agreements	Student exchange agreements
United Kingdom	University of Birmingham, School of Engineering, etc.	●	
Netherlands	Delft University of Technology	●	
Switzerland	ETH Zurich (Swiss Federal Institute of Technology Zurich)		●
Sweden	Linköping University	●	●
Czech Republic	Czech Technical University in Prague	●	
Germany	Heinrich Heine University Düsseldorf, Institute of Organic Chemistry and Macromolecular Chemistry	●	●
	Technical University of Dortmund, Faculty of Biochemical and Chemical Engineering	●	●
	University of Freiburg, Faculty of Engineering		●
Norway	Norwegian University of Science and Technology	●	
France	ENSAPLV (École nationale supérieure d'architecture de Paris-La Villette)	●	●
	Pierre and Marie Curie University (Paris VI) →Merged into Sorbonne University	●	
	University of Rennes, Sciences and Properties of Matter (SPM) and Rennes School of Engineering (ESIR)	●	●
	University of Rennes, Lannion IUT		●
	IPGP (Institut de physique du globe de Paris)	●	
Poland	EPHE (École pratique des hautes études)	●	●
	AGH University of Science and Technology	●	

Middle East (1)	Partner institution (1)	Academic exchange agreements	Student exchange agreements
United Arab Emirates	United Arab Emirates University, Colleges of Science and Engineering	●	

Africa (2)	Partner institution (2)	Academic exchange agreements	Student exchange agreements
Egypt	American University in Cairo, School of Sciences and Engineering	●	
Kenya	Jomo Kenyatta University of Agriculture and Technology	●	●

Asia (8)	Partner institution (18)	Academic exchange agreements	Student exchange agreements
India	National Institute for Interdisciplinary Science and Technology (NIIST)	●	
Indonesia	Brawijaya University, Faculty of Engineering	●	●
Thailand	Asian Institute of Technology, School of Engineering and Technology, etc.		●
	King Mongkut's University of Technology Thonburi (KMUTT) (Joint Graduate School of Energy and Environment: JGSEE)	●	
	King Mongkut's Institute of Technology Ladkrabang (KMITL)	●	
Korea	Mahidol University, Faculty of Engineering		●
	Kyung Hee University, College of Engineering	●	
Taiwan	Korea Institute of Construction Technology	●	
	National Cheng Kung University, College of Engineering	●	●
China	Dalian University of Technology	●	
	Graduate School of Tongji University	●	
	City University of Hong Kong, College of Science, College of Engineering		●
	Graduate School of Southeast University	●	●
	Tianjin University, School of Science	●	
Viet Nam	Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen), School of Science and Engineering	●	●
	Jilin University	●	
Viet Nam	Hanoi University of Civil Engineering	●	
Malaysia	University of Technology Malaysia, Faculty of Built Environment and Surveying, etc.	●	

Joint Workshop with ENSAPLV (École nationale supérieure d'architecture de Paris-La Villette)

Students majoring in architecture and architectural engineering join ENSAPLV students in Paris for field research, discussions, and presentations, each time under a specific theme.

Highlights of the Walking Survey in Paris

International Internship Program

TUD students at a post-internship debriefing

Dortmund city center

In partnership with the Technical University of Dortmund (TUD) in Germany, since 1990 we have offered an international internship program for students majoring in chemical engineering. Japanese and German students participate in internships at companies in each other's country for two months, with program coordinators at TUD making arrangements for Kyoto University students and those at Kyoto University for TUD students. After orientations, the interns work at companies, then submit final reports, and have their credits recognized by their host universities.

North America (2)	Partner institution (7)	Academic exchange agreements	Student exchange agreements
United States	University of Wisconsin-Madison, College of Engineering	●	
	University of Washington, College of Engineering	●	
	University of Texas at Austin, Cockrell School of Engineering	●	
	Rensselaer Polytechnic Institute, School of Engineering	●	
Canada	City University of New York, Energy Institute	●	
	University of Western Ontario, Faculties of Engineering and Science	●	
	University of Toronto, Faculty of Applied Science and Engineering		●

Central and South America (1)	Partner institution (1)	Academic exchange agreements	Student exchange agreements
Brazil	University of São Paulo, School of Engineering	●	

Oceania (2)	Partner institution (2)	Academic exchange agreements	Student exchange agreements
Australia	Royal Melbourne Institute of Technology	●	
New Zealand	Victoria University of Wellington, Faculties of Science, Engineering, and Architecture and Design Innovation, Robinson Research Institute, and Ferrier Research Institute	●	●

Kyoto University WISE Program: Innovation of Advanced Photonic and Electronic Devices

We offer a five-year doctoral program designed to produce international leaders in fields related to advanced photonic and electronic devices. Students are leaders with a strong sense of responsibility and a high level of ethical standards, working under the common philosophy of "challenging physical limits and developing an information-oriented and energy-saving society."

International Seminar Dojo

Kyoto University-Tsinghua University Cooperative Research and Education Center for Environmental Technology, an on-site laboratory of Kyoto University

Japan-China Symposium on Cooperative Research and Education in Environmental Technology

Signing ceremony for the founding of CRECET

In December 2018, Kyoto University-Tsinghua University Cooperative Research and Education Center for Environmental Technology (CRECET) was designated as an onsite laboratory of Kyoto University with the aim of solving environmental problems through joint education and research in the area of environmental engineering. In collaboration with Tsinghua Shenzhen International Graduate School, CRECET promotes the research and development of environmental technologies needed to achieve a sustainable society, while at the same time acting as a liaison office to enable joint research with external partners, such as private-sector businesses. A double master's degree program between the two universities was launched in academic year 2022/23. CRECET also is an internship site for Kyoto University students and a contact point for Tsinghua University students searching for internship opportunities in Japan.

Egypt-Japan University of Science and Technology (E-JUST)

In collaboration with the Japan International Cooperation Agency (JICA), we support Egypt-Japan University of Science and Technology (E-JUST), a joint project by the Japanese and Egyptian governments.

Visit to E-JUST

Summer seminar on advanced microchemistry



Scan this QR code for exchange agreements between Kyoto University and international partner institutions.

10 Kyoto University Engineering Fund

This section provides an overview of the Kyoto University Engineering Fund set up by Kyoto University Engineering. Using this fund, we intend to improve the research infrastructure and amenities at the beautifully scenic Katsura Campus—dubbed “Techno-Science Hill Katsura”—as well as nurture a high level of expertise and a wealth of creativity for the engineers who will help shape the future.

About the Kyoto University Engineering Fund

We believe that the mission of Kyoto University Engineering is to contribute to the creation and development of environmentally conscious scientific knowledge as well as technologies to build a brighter future. We adhere to our educational philosophy: understanding underlying scientific principles and theories is essential for largescale applications and developments into the future.

Guided by this mission, Kyoto University Engineering strives to develop young, high-caliber engineering talent with advanced expertise firmly based on fundamental knowledge, rich creativity, and a sense of dignity.

As of 2023, it has been 20 years since the Graduate School of Engineering moved to the Katsura Campus. Situated in rich natural surroundings, the Katsura Campus is spacious and beautiful. However, it is also true that it lacks sufficient welfare facilities such as dormitories, and the distance between the Yoshida and Katsura Campuses, where the Graduate School of Informatics and the Graduate School of Engineering are located, has created various challenges in for pursuing education and research.

The Kyoto University Engineering Fund was set up to overcome this situation by all available means.

Using this fund, we will improve the existing information exchange network and science education facilities at the Katsura Library, as well as other amenities, in this way creating and maintaining an environment that supports the development of future leaders of engineering.

We would like to ask for your kind donations and support for Kyoto University Engineering.

How to Donate

You can donate online or via a bank transfer.
For further details, please see the Kyoto University Engineering website.



Uses of the Kyoto University Engineering Fund

Educational support	- Virtual reality (VR) for use in safety training and pre-experiment briefings - Development of teaching tools capable of multilingual translation - Study rooms that are available 24 hours a day - Enhanced learning environments for undergraduates, such as active learning rooms	Training and development of researchers in future generation	- Subsidies for the Seiran Program, a training program for faculty members in future generation - Financial support for researchers in future generation, subsidizing the cost of long-term stays overseas - Financial support for the launch of new research projects
Construction and renovation of amenities	- Improved amenities, including building a dormitory for international and Japanese students, as well as a fitness center - Subsidies for operating the School Nurse Office for students' mental and physical healthcare	International exchanges	- Accommodations for international researchers - Establishment and operational support of onsite laboratories as well as the promotion of international exchanges
Construction and renovation of research infrastructure	- Functional improvements of the Katsura Library - More advanced information networks - Promotion of open data	Industry-university collaboration	- Collaboration with local communities - Support for startup ventures

11 Alumni Associations of Kyoto University Engineering

The alumni associations consist of former students (including current students in some associations), and current and former faculty members drawn from each department and undergraduate school. They promote mutual exchange and friendship among members through general meetings, lectures, and other events. The alumni organizations related to Kyoto University Engineering are listed below. A liaison committee consisting of people involved in the alumni organizations has also been established to promote projects that contribute to the development of Kyoto University, Kyoto University Engineering and its departments and undergraduate schools, as well as to foster a broad human network. This committee is a collaborative organization of alumni associations and seeks to strengthen ties with the Kyoto University Alumni Association.

Alumni organizations related to Kyoto University Engineering

Kyodokai (Kyoto University Civil Engineering Alumni Association)	Alumni Association of Synthetic Chemistry and Biological Chemistry Departments of Kyoto University
Keikikai (Kyoto University Mechanical Engineering Alumni Association)	Rakuhokai (Alumni Association of Fuel Chemistry, Petrochemistry, and Energy and Hydrocarbon Chemistry Departments of Kyoto University)
Rakuyukai (Kyoto University Electrical and Electronic Engineering Alumni Association)	Alumni Association of Inorganic Material Engineering Departments of Kyoto University
Suiyokai (Alumni Association of former Earth Resources and Metal Engineering Departments of Kyoto University)	Alumni Association of Aeronautics and Astronautics, and Applied Physics Departments of Kyoto University
Architectural Alumni Association of Kyoto University	Keshi-no-mi-kai (Kyoto University Nuclear Engineering Alumni Association)
Kokakai (Kyoto University Chemical Engineering Alumni Association)	Kyoto University Surikai (Alumni Association of the Department of Applied Mathematics and Physics, and the Applied Mathematics and Physics Course in the School of Informatics and Mathematical Science)
Rakusokai (Alumni Association of Department of Chemical Engineering and former Chemical Engineering Departments of Kyoto University)	Jorakukai (Alumni Association of Computer Science, Department of Mathematics of Kyoto University)

The Kyoto University Alumni Association HP

For more information on each alumni association, please see the linked websites

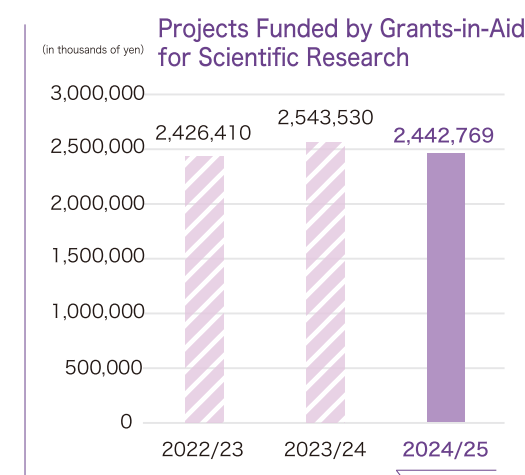
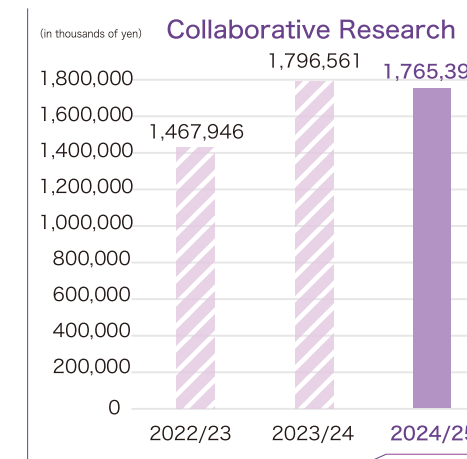
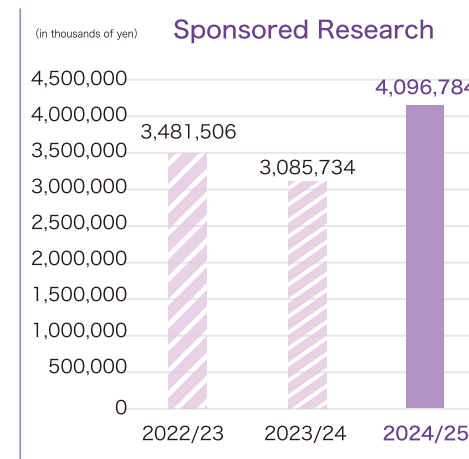
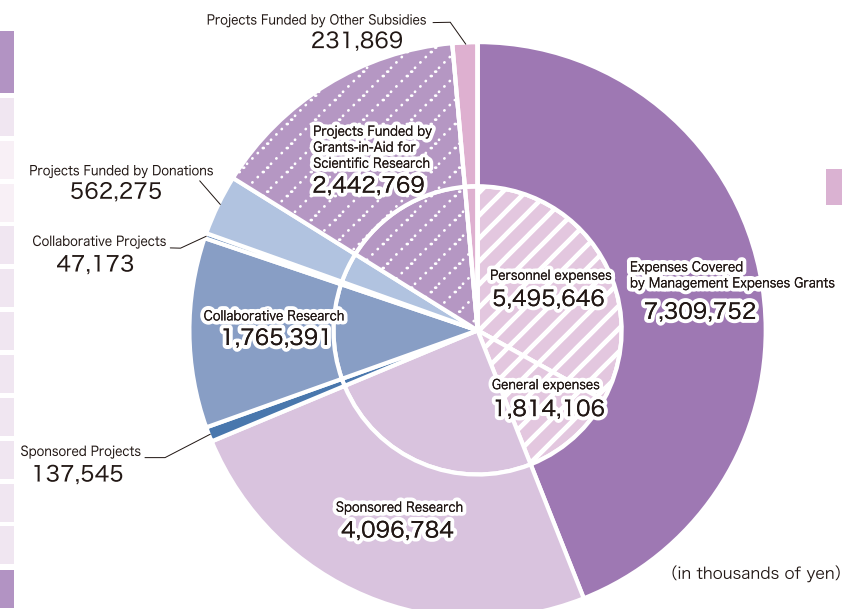


12 Financial Status

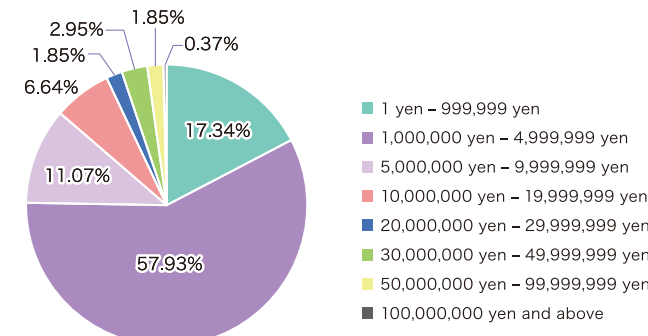
As a unit within Kyoto University, the Graduate School of Engineering has one of the biggest budgets. Operating expenses in academic year 2024/25 are outlined below.

Operating expenses in academic year 2024/25

Category	Amount (in thousands of yen)
Expenses Covered by Management Expenses Grants	7,309,752
Personnel expenses	5,495,646
General expenses	1,814,106
Sponsored Research	4,096,784
Sponsored Projects	137,545
Collaborative Research	1,765,391
Collaborative Projects	47,173
Projects Funded by Donations	562,275
Projects Funded by Grants-in-Aid for Scientific Research	2,442,769
Projects Funded by Other Subsidies	231,869
Other Large-scale Projects	0
Total	16,593,558



Collaborative Research in 2024/25 by Size of Expenses



Projects Funded by Grants-in-Aid for Scientific Research in 2024/25 by Type of Grant

Type of Grant	Number of projects	Amount (in thousands of yen)
Grant-in-Aid for Specially Promoted Research	4	381,420
Grant-in-Aid for Specially Promoted Research Areas / Grant-in-Aid for Transformative Research Areas (A) and (B)	29	315,900
Grant-in-Aid for Scientific Research (S)	7	296,140
Grant-in-Aid for Scientific Research (A), (B), and (C)	188	989,754
Grant-in-Aid for Early-Career Scientists	57	84,590
Grant-in-Aid for JSPS Fellows	99	89,705
Others	58	285,260
Total	442	2,442,769

Number of academic and administrative staff

Academic Staff						(Black: Katsura Campus, Blue: Yoshida Campus, etc.) As of May 1, 2025					
Departments & Centers	Professor	Associate professor	Senior lecturer	Assistant professor	Total						
Department of Civil and Earth Resources Engineering	10 (4)	12 (1)		12 (1)	34 (6)						
Department of Urban Management	8 (3)	9		6	23 (3)						
Department of Environmental Engineering	5 (1)	4 (1)	2	7 (1)	18 (3)						
Department of Architecture and Architectural Engineering	15	11	2	9	37						
Department of Mechanical Engineering and Science	12	5	3	11	31						
Department of Micro Engineering	6	6	2	3	17						
Department of Aeronautics and Astronautics	6	3 (1)	1	3	13 (1)						
Department of Nuclear Engineering	6	2	2	3	13						
Department of Materials Science and Engineering	9	8	1	13	31						
Department of Electrical Engineering	7	4 (1)	1	3	15 (1)						
Department of Electronic Science and Engineering	7	6	1	8	22						
Department of Material Chemistry	8	7	2	11	28						
Department of Energy and Hydrocarbon Chemistry	8	9	3	9	29						
Department of Molecular Engineering	4 (1)	3	1	8	16 (1)						
Department of Polymer Chemistry	6 (1)	3	1	7 (2)	17 (3)						
Department of Synthetic Chemistry and Biological Chemistry	7	4	3	7	21						
Department of Chemical Engineering	8	5	2	10	25						
Photonics and Electronics Science and Engineering Center	1	1		2	4						
Research Center for Environmental Quality Management	1	1		3	5						
Quantum Science and Engineering Center	1	1			2						
Katsura Int'tech Center											
Center for Information Technology				[2]	[2]						
Occupational Health, Safety and Environmental Management Center			[1]	[1]	[2]						
Engineering Education Research Center	1		6		7						
Total	136 (10)	104 (4)[1]	33	[3] 135 (4)	408 (18)[4]						
Katsura Campus Total	125 (10)	94 (4)[1]	32	[3] 119 (4)	370 (18)[4]						
Yoshida Campus, etc. Total	11	10	1	16	38						
Note 1: () The numbers in parentheses indicate the number of academic staff belonging to Graduate School of Global Environmental Studies, Graduate School of Management and Institute for Liberal Arts and Sciences, in addition to the regular figures. Note 2: () The numbers in parentheses indicate the personnel who are officially classified to other sections, in addition to the regular figures. Note 3: Including Specially Contracted Fixed-Term Faculty											
Administrative Staff						(Black: Katsura Campus, Blue: Yoshida Campus, etc.) As of May 1, 2025					
Departments and Undergraduate Schools	Administrative Staff	Technical Staff	Program-Specific Researcher	Total							
Department of Civil and Earth Resources Engineering	5		1	6							
Department of Urban Management	3			3							
Department of Environmental Engineering				3							
Department of Architecture and Architectural Engineering	1		3	4							
Department of Mechanical Engineering and Science	3		2	5							
Department of Micro Engineering	2			2							
Department of Aeronautics and Astronautics			1	1							
Department of Nuclear Engineering											
Undergraduate School of Civil, Environmental and Resources Engineering											
Undergraduate School of Architecture											
Department of Materials Science and Engineering	4		3	7							
Undergraduate School of Engineering Science											
Department of Electrical Engineering			2	2							
Department of Electronic Science and Engineering	1		3	4							
Department of Material Chemistry	3		4	7							
Department of Energy and Hydrocarbon Chemistry	4		10	14							
Department of Molecular Engineering	3		2	5							
Department of Polymer Chemistry											
Department of Synthetic Chemistry and Biological Chemistry	4		4	8							
Department of Chemical Engineering	5		1	6							
Undergraduate School of Electrical and Electronic Engineering											
Undergraduate School of Chemical Science and Technology											
Undergraduate School of Informatics and Mathematical Science											
Research Center for Environmental Quality Management			3	3							
Quantum Science and Engineering Center	1			1							
Katsura Int'tech Center											
Center for Information Technology											
Occupational Health, Safety and Environmental Management Center	1			1							
Technical Office, Graduate School of Engineering, Kyoto University		37		37							
Administration Office (Graduate School of Engineering, Katsura Campus; located in Katsura)	110	4		114							
Administration Office (Graduate School of Engineering, Katsura Campus; located in Yoshida)	20			20							
Total	170	41	42	253							
Total for Katsura Campus	145	41	36	222							
Total for Yoshida Campus, etc.	25		6	31							
Note: Including Specialist Administrative Staff, Re-employed Staff and Support Staff											

Number of students

Graduate Students												(Black: Katsura Campus, Blue: Yoshida Campus, etc.) As of May 1, 2025											
Departments	Master's Program		Doctoral Program								Total												
	Year 1	Year 2	Year 1		Year 2		Year 3																
			April	October	April	October	April	October	April	October													
Department of Civil and Earth Resources Engineering	67	79	21	7	17	5	16	6	200	[18]													
Department of Urban Management	53	54	18	8	18	6	20	10	163	[24]													
Department of Environmental Engineering	32	39[1]	4	7	9	8	9	8	93	[24]													
Department of Architecture and Architectural Engineering	71	80	11	2	11	2	17	14	190	[18]													
Department of Mechanical Engineering and Science	60	56	10	1	10	5	18	5	154	[11]													
Department of Micro Engineering	33	33	4	1	8	1	9		87	[2]													
Department of Aeronautics and Astronautics	21	25			2		4		52														
Department of Nuclear Engineering	24	27	4	3	2		12	2	69	[5]													
Department of Materials Science and Engineering	42	45	7	2	3		14	3	111	[5]													
Department of Electrical Engineering	39	34	9	1	2	1	6	1	90	[3]													
Department of Electronic Science and Engineering	34	38	6	1	3	1	8	1	89	[3]													
Department of Material Chemistry	29	26	2	1	7		6		70	[1]													
Department of Energy and Hydrocarbon Chemistry	39	40	12	4	16	2	24		131	[6]													
Department of Molecular Engineering	36	33	11	1	7		13	1	100	[2]													
Department of Polymer Chemistry	48	44	7	1	9	2	16	1	124	[4]													
Department of Synthetic Chemistry and Biological Chemistry	33	28	6	1	5	2	10	4	82	[7]													
Department of Chemical Engineering	29	39	3		5	2	3	2	79	[4]													
Total	690	720[1]	135	41	134	37	205	58	1,884	[137]													
Total for Katsura Campus	648	675[1]	128	39	131	37	191	55	1,773	[132]													
Total for Yoshida Campus, etc.	42	45	7	2	3		14	3	111	[5]													
Note: The numbers in parentheses indicate the number of Master's Course students enrolled in October, in addition to the regular figures.																							

Undergraduate Students

						As of May 1, 2025					
Undergraduate Schools	Year 1	Year 2	Year 3	Year 4	Total						
Undergraduate School of Civil, Environmental and Resources Engineering	187	187	182	229	785						
Undergraduate School of Architecture	84	82	81	99	346						
Undergraduate School of Engineering Science	240	243	238	283	1,004						
Undergraduate School of Electrical and Electronic Engineering	134	131	133	170	568						
Undergraduate School of Informatics and Mathematical Science	93	92	92	127	404						
Undergraduate School of Chemical Science and Technology	238	243	243	318	1,042						
Total	976	978	969	1,226	4,149						

Admission for Academic Year 2025/26

Graduate School

Departments	Master's Program		
	Quota	Applicant	Freshperson
Department of Civil and Earth Resources Engineering	58	146 [18]	67 [4]
Department of Urban Management	57		53 [2]
Department of Environmental Engineering	36	41 [4]	32 [3]
Department of Architecture and Architectural Engineering	75	90 [3]	71 [2]
Department of Mechanical Engineering and Science	59		60 [7]
Department of Micro Engineering	30	145 [10]	33
Department of Aeronautics and Astronautics	24		21
Department of Nuclear Engineering	23	36 [2]	24 [1]
Department of Materials Science and Engineering	38	53	42
Department of Electrical Engineering	38		39 [2]
Department of Electronic Science and Engineering	35	90 [4]	34
Department of Material Chemistry	29		29 [4]
Department of Energy and Hydrocarbon Chemistry	39		39 [2]
Department of Molecular Engineering	35	198 [21]	36 [2]
Department of Polymer Chemistry	46		48 [5]
Department of Synthetic Chemistry and Biological Chemistry	32		33 [2]
Department of Chemical Engineering	34	38 [3]	29 [1]
Total	688	837 [65]	690 [37]

Note: The numbers in parentheses indicate the number of foreign students, in addition to the regular figures.

Departments	Doctoral Program		
	Quota	Applicant	Freshperson
Department of Civil and Earth Resources Engineering	17	28 (6) [12]	28 (6) [12]
Department of Urban Management	17	28 (5) [17]	26 (5) [15]
Department of Environmental Engineering	10	11 (1) [7]	11 (1) [7]
Department of Architecture and Architectural Engineering	22	15 (1) [6]	13 (1) [5]
Department of Mechanical Engineering and Science	16	12 (1) [6]	11 (1) [6]
Department of Micro Engineering	7	5 [2]	5 [2]
Department of Aeronautics and Astronautics	7		
Department of Nuclear Engineering	9	7 [3]	7 [3]
Department of Materials Science and Engineering	10	10 [4]	9 [4]
Department of Electrical Engineering	10	11 [3]	10 [2]
Department of Electronic Science and Engineering	10	8 (2) [1]	7 (2)
Department of Material Chemistry	9	5 (2) [2]	3 (1) [1]
Department of Energy and Hydrocarbon Chemistry	11	16 (3) [6]	16 (3) [6]
Department of Molecular Engineering	10	12 [3]	12 [3]
Department of Polymer Chemistry	15	8 (1) [1]	8 (1) [1]
Department of Synthetic Chemistry and Biological Chemistry	10	7 [3]	7 [3]
Department of Chemical Engineering	7	4	3
Total	197	187 (22) [76]	176 (21) [70]

Note 1: The numbers in parentheses () and [] indicate the number of specially selected career-track working students and foreign students, respectively, and both are included in the regular figures.
Note 2: The numbers of applicants and freshpersons are respectively the sum of those applied in October, 2024, and those applied in April, 2025.

Undergraduate School

Undergraduate Schools	Quota	Applicant	Freshperson		
			Male	Female	Total
Undergraduate School of Civil, Environmental and Resources Engineering	185	546[29]	162[3]	27[7]	189[10]
Undergraduate School of Architecture	80	334[6]	62[1]	22[2]	84[3]
Undergraduate School of Engineering Science	235	859[19]	224[3]	16	240[3]
Undergraduate School of Electrical and Electronic Engineering	130	393[17]	126[4]	8[1]	134[5]
Undergraduate School of Informatics and Mathematical Science	90	379[2]	88[2]	5	93[2]
Undergraduate School of Chemical Science and Technology	235	392[16]	198[3]	41[2]	239[5]
Total	955	2,903[89]	860[16]	119[12]	979[28]

Note 1: The numbers in parentheses [] indicate the number of foreign students, and are included in the regular figures.
Note 2: The numbers of applicants are counted for their first choice.

Graduation/Completion and the number of individuals awarded a degree

Graduate School

Departments	Master's Program		Doctoral Program	Type	
-------------	------------------	--	------------------	------	--

Foreign Students, Guest Scholars

Number of Foreign StudentsAs of May 1, 2025

Country/Region	Undergraduate School	Graduate School		Total
		Master's Program	Doctoral Program	
Asia (18)				
India	1		7	8
Indonesia	12	2	18	32
Cambodia	1			1
Singapore	2		1	3
Sri Lanka	1		4	5
Thailand	3	5	10	18
Korea	12	5	19	36
Taiwan	9	7	13	29
China	60	67	154	281
Nepal			1	1
Pakistan			2	2
Philippines	3	2	6	11
Vietnam	2	1	7	10
Hong Kong		1	2	3
Malaysia	2		4	6
Myanmar	6		4	10
Mongol	1			1
Middle East (4)				
Iran			3	3
Oman			1	1
Syria			1	1
Africa (8)				
Algeria			2	2
Egypt			3	3
Eswatini			1	1
Cameroon			1	1
Kenya			1	1
Tanzania			1	1
Tunisia			2	2
Madagascar			1	1
Oceania (2)				
Australia		1		1
Solomon Islands			1	1
North America (2)				
United States of America	1		1	2
Canada	2	1	1	4
Latin America (5)				
El Salvador			1	1
Colombia			1	1
Chile			1	1
Brazil	1		3	4
Peru		1		1
Europe (including NIS countries) (6)				
Uzbekistan			1	1
Spain			1	1
Serbia			1	1
Germany			1	1
France			1	1
Portugal			1	1
Total (47 countries/regions)	119	93	284	496

Number of International Research StudentsAs of May 1, 2025

Country/Region	Research Student	Special Auditing Student	Special Research Student	Short-term International Student	Total
Asia (8)					
India	1		2		3
Indonesia	1				1
Korea	1				1
Taiwan	1				1
China	4	1	2		7
Philippines	1				1
Myanmar	1				1
Mongolia	1				1
Africa (3)					
Egypt	1				1
Tanzania	1				1
Mozambique	1				1
Latin America (2)					
El Salvador	1				1
Peru	1				1
Europe (including NIS countries) (7)					
Italy				1	1
Switzerland		1			1
Spain		1			1
Germany		1	1		2
Norway		4			4
France	1	5	3	4	13
Russia		1	1		2
Total (20 countries/regions)	17	14	9	5	45

Number of Guest ScholarsAcademic Year 2024/25

Country/Region	Guest Scholar	Guest Research Associate	Visiting Research Scholar	Total
Asia (7)				
India	1	5		6
Indonesia	1	1		2
Thailand		2		2
Korea	1	2		3
Taiwan		4		4
China	8	21		29
Vietnam		1		1
Middle East (1)				
Iran		1		1
Africa (2)				
Egypt	1			1
Ethiopia	1	4		5
Oceania (1)				
Australia	1			1
North America (2)				
United States of America	3		1	4
Canada	1			1
Latin America (2)				
Brazil		1		1
Mexico		1		1
Europe (including NIS countries) (10)				
Italy	2	1		3
United Kingdom	2	1		3
Austria		1		1
Sweden		2		2
Slovakia		1		1
Germany	2	7		9
Finland		1		1
France	3	2		5
Belgium		3		3
Poland			1	1
Total (25 countries/regions)	27	62	2	91

Book (Number of books)

Library CollectionAs of May 1, 2025

Library Name	Book (Number of books)			Magazine (Number of titles)		
	Japanese	International	Total	Japanese	International	Total
Katsura Library	126,025	194,365	320,390	2,473	5,452	7,925
The North Library, Graduate School of Engineering and Faculty of Engineering	10,502	1,423	11,925	24	4	28
The South Library, Graduate School of Engineering and Faculty of Engineering	27,250	26,858	54,108	827	775	1,602
Total	163,777	222,646	386,423	3,324	6,231	9,555

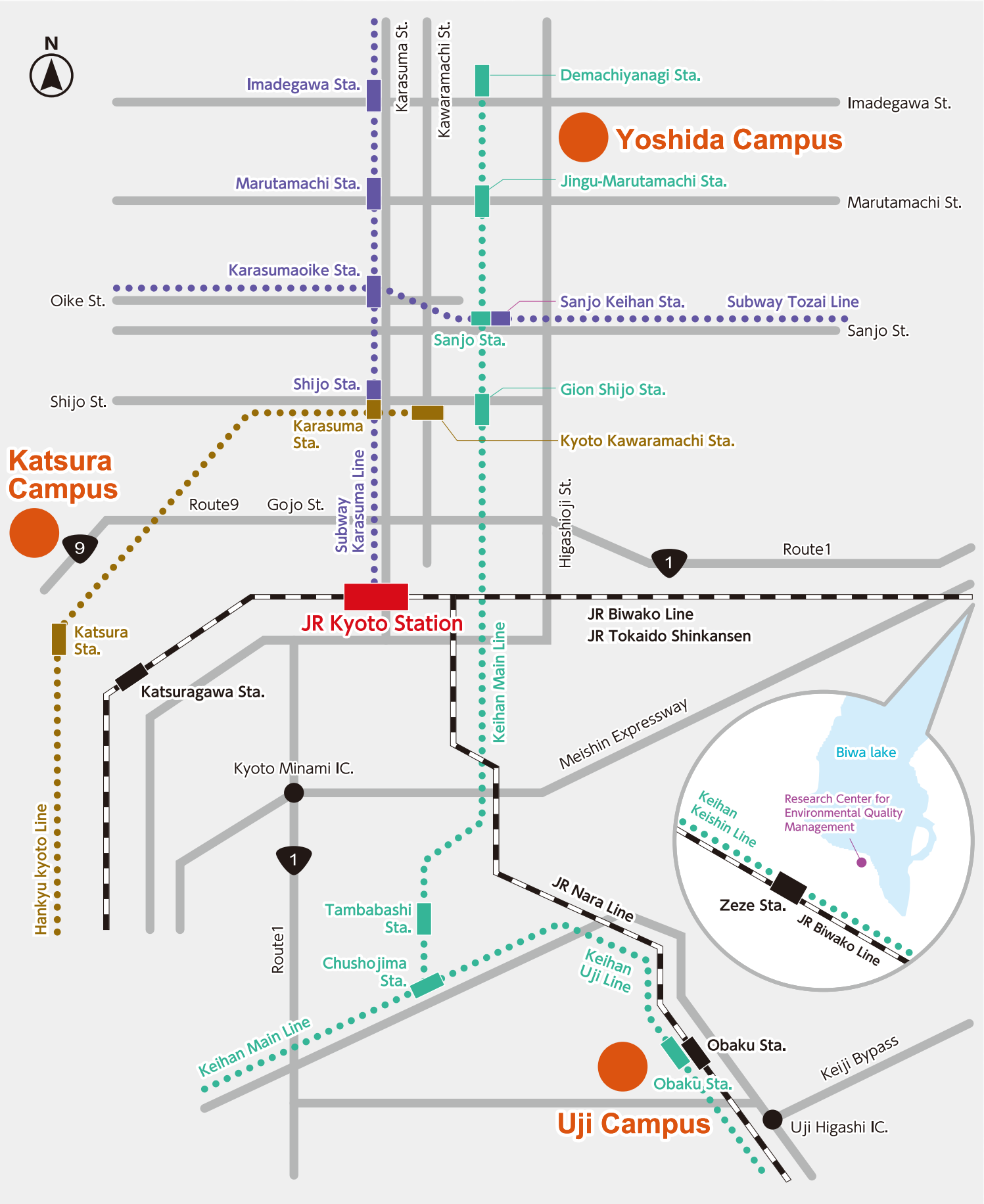
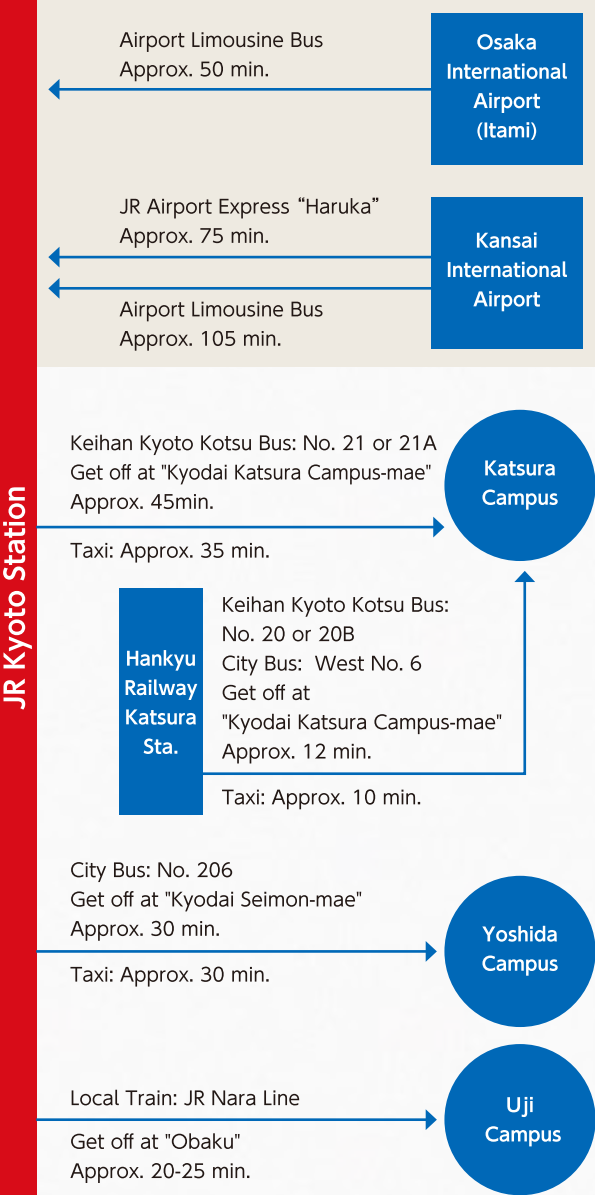
Research Students

Number of Research Students and othersAs of May 1, 2025

Departments/ Undergraduate Schools	Research Student	Research Fellow	Special Auditing Student	Special Research Student	Short-term International Student	Total
Department of Civil and Earth Resources Engineering	2 [2]		2 [2]	1 [1]		5 [5]
Department of Urban Management	3 [3]	1				4 [3]
Department of Environmental Engineering	4 [4]					4 [4]
Department of Architecture and Architectural Engineering	9 [4]	1	9 [9]	6 [3]	1 [1]	26 [17]
Department of Mechanical Engineering and Science	1 [1]	1 [1]	2 [2]			4 [4]
Department of Micro Engineering	2 [2]					2 [2]
Department of Aeronautics and Astronautics						
Department of Nuclear Engineering		1 [1]				1 [1]
Department of Materials Science and Engineering						
Department of Electrical Engineering		1 [1]		1 [1]		2 [2]
Department of Electronic Science and Engineering	1 [1]			1 [1]		2 [2]
Department of Material Chemistry		1				1
Department of Energy and Hydrocarbon Chemistry	1	1		1 [1]		3 [1]
Department of Molecular Engineering						
Department of Polymer Chemistry				1		1
Department of Synthetic Chemistry and Biological Chemistry		2				2
Department of Chemical Engineering		1		2 [2]		3 [2]
Undergraduate School of Civil, Environmental and Resources Engineering						
Undergraduate School of Architecture						
Undergraduate School of Engineering Science						
Undergraduate School of Electrical and Electronic Engineering						
Undergraduate School of Informatics and Mathematical Science			1 [1]			1 [1]
Undergraduate School of Chemical Science and Technology			1 [1]		4 [4]	5 [5]
Total	23 [17]	10 [3]	15 [15]	13 [9]	5 [5]	66 [49]

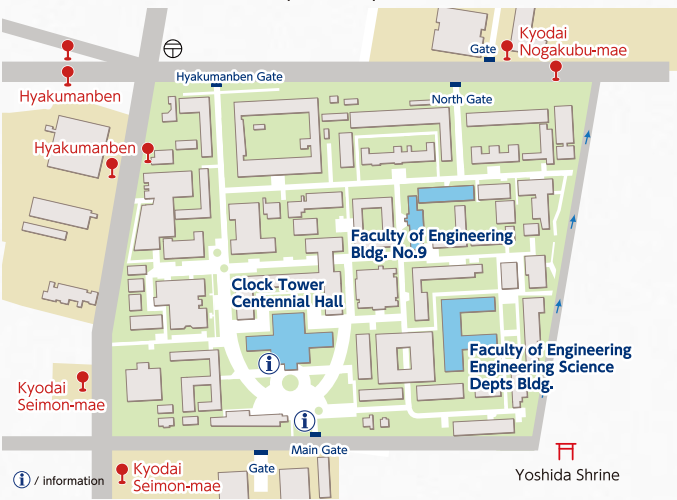
Note 1: The numbers in parentheses [] indicate the number of foreign students, and are included in the regular figures.
Note 2: The number of Research Fellows includes the numbers of Research Fellows, entrusted researchers, and research fellows of the Japan Society for the Promotion of Science (PS).

Access from International Airports



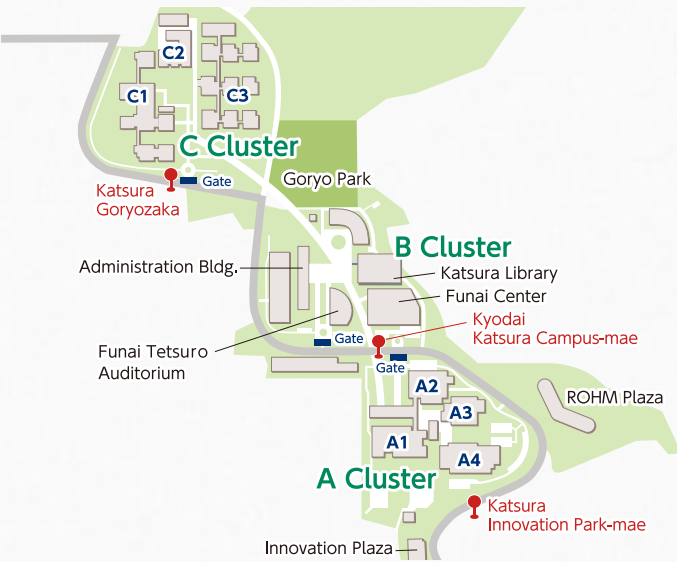
Kyoto University Yoshida Campus

Yoshida-Honmachi, Sakyo-ku, Kyoto 606-8501



Kyoto University Katsura Campus

Kyoto Daigaku-Katsura, Nishikyo-ku, Kyoto 615-8530



Kyoto University Uji Campus

Gokasho, Uji, Kyoto 611-0011

