

2026

OUTLINE OF MASTER'S PROGRAM and 5-YEAR INTEGRATED DOCTORAL PROGRAM

≪Major Fields & Research Areas≫
IN THE GRADUATE SCHOOL OF ENGINEERING

Contents

1. Graduate School of Engineering Outline of Major Fields and Research Areas

≪ Master's Program≫	
Engineering	
1. Mechanical Engineering······	1
2. Electrical, Electronics and Information Engineering	·····2
3. Information and Management Systems Engineering	3
4. Materials Science and Bioengineering	4
5. Civil and Environmental Engineering	5
6. Nuclear Technology ······	·····6
7. System Safety Engineering	·····7
8. Common courses	8
≪5-year Integrated Doctoral Program≫	
Science of Technology Innovation	10
2. Academic staff in Graduate School of Engineering	
≪Master's Program≫	
Engineering	
1. Academic staffs in Mechanical Engineering	·····11
2. Academic staffs in Electrical, Electronics and	
Information Engineering	13
3. Academic staffs in Information and Management	
Systems Engineering ·····	
4. Academic staffs in Materials Science and Bioengineering	
5. Academic staffs in Civil and Environmental Engineering ·	
6. Academic staffs in Nuclear Technology	19
7. Academic staffs in System Safety Engineering	·····20
≪5-year Integrated Doctoral Program≫	
Academic staffs in Science of Technology Innovation	···· 21
Research Areas of Master's Program	22
Research Areas of	
5-year Integrated Doctoral Program	22

1. Graduate School of Engineering Outline of Major Fields and Research Areas

≪Master's Program≫

1. Mechanical Engineering

Mechanical engineering covers fields concerning development, design, production, inspection, and maintenance of various kinds of equipment, or machines, which enable us to make human-life and human-work convenient. Its main subjects are materials and strength, motion and control, design and production, and energy and environment. Mechanical engineering treats with equipment in various sizes from a large oil tanker to an atomic force microscope. Computers play very important roles in all those fields. A student in this major course studies the forefront of each subject and technology together with management engineering subjects and cultivates one's ability to find and solve engineering problems through seminars and researches for the master's thesis. This major course aims to train a leading engineer with practical competence and creativity.

Content of Courses

This major has five courses, Information and Control Engineering Course, Design and Production Engineering Course, Fluids and Thermal Engineering Course, Materials Science and Engineering Course, and Innovative Interdisciplinary Mechanical Engineering Course.

Research Areas

Information and Control Engineering

This research area covers control engineering, measurement engineering and computer application engineering. Control engineering deals with control theory, and visual feedback control of robots. Measuring engineering deals with instrumentation for production, geometrical product specifications and their verification, development of industrial standard measures, precision measurement, nanometrology and image data handling/processing. Computer application engineering treats computational mechanics for stress analysis of electrical packaging, paper die cutting simulation, simulation of flexible media (papers, bank notes, tickets) handling, and so on.

Design and Production Engineering

This research area covers machine elements, mechanical engineering design, precision engineering, production processes, dynamics of machinery, and tribology. Major research themes are dynamics of rolling bearings and gears, dynamics based system safety design focusing on construction and materials handling machines, ultrasonic cutting / grinding of difficult-to-machine materials and visualization of machining phenomenon, crystal growth and ultra precision processing of optoelectronics single crystals, speech recognition and synthesis in noisy environments, and so on.

Fluids and Thermal Engineering

This research area deals principally with fluids and/or heat that concern energy and environment, on which human life is essentially dependent. Engineering fields covered by this area include Fluids Engineering (Incompressible or Compressible Fluid Dynamics, Computational Fluid Dynamics, and Non-Newtonian Fluid Flow), Energy and Heat Transfer, Combustion Engineering, and Global/local Environmental Protection.

Research topics now running are: Flow-Induced Vibration, Optical-Rheometry, Heat Exchanger, Flame Instability, Chaos in Combustion, Ignition of Hydrogen, Smoldering or Flaming of Solid Combustible, Renewable Thermal Energy of Snow and Ground, Physical Properties of Snow and Ice, and so on.

Materials Science and Engineering

The concept is to apply basic understandings on the relationship between microscopic structure/texture and characteristics/functions to design and fabrication of new materials and integrated materials systems. The research areas are: materials analysis, measurement of physical and chemical properties; material design/production; structural/safety analysis, and materials recycles. The following materials are covered: metallic materials, ceramics, composites, functional materials, intermetallic compounds, non-ferrous alloys, heat resisting materials, environmental coatings and ultra-light materials.

Innovative Interdisciplinary Mechanical Engineering

This research area widely covers mechanical engineering fields and its research activities such as energy system, non-traditional machining, micro/nano processing, bio-integrated system and advanced sensing toward sustainable future society are interdisciplinary. Such state-of-art technologies demand multidisciplinary knowledge and thus, research and education in this course expand over not only traditional branches of mechanical engineering, but also other disciplines. Collaborative researches and activities with world's leading companies and other institutes are highly encouraged and being carried out. The students can learn wide and substantial expertise and useful skills in mechanical engineering, as well as fundamental knowledge of interdisciplinary areas that meets emerging needs.

2. Electrical, Electronics and Information Engineering

This major, on the basis of the fundamental knowledge learned during the corresponding undergraduate course, conducts interdisciplinary and practice-oriented education at the graduate school level through systematized cooperation with other related disciplines and aims to train leading high-level engineers who can conduct research and development of practice-oriented electrical, electronics and information engineering fields. The objectives of this major are directed not only toward the research and development for the functionally organized following three courses but also to the education to incubate the pioneering engineers who are rich in vitality, originality and service, i.e. **VOS** in abbreviation.

Research Areas

Electric Energy and Control Engineering

Activity in this research area focuses on the following topics: new energy systems, plasma applications, pulsed-power technology, electric power systems, energy conversion and control, motion control and robotics, industrial and transportation systems, home appliances, and new materials for energy systems. Research and development for enhancing and improving functionality and performance of those systems are demanded by human society in view of reducing the global environmental load.

The energy and electric power supply systems, the hubs of the transformation and distribution of energy, are of immense importance to our sophisticated modern society. This course has advanced its performance due to the development of new material parts for electronic devices. In fact the demands of society on the electric and electronic systems are becoming increasingly sophisticated, leading to multiplying components and a deepening relation with other disciplines. In order to coincide with such demands of modern industrial society, the important themes are how to develop electric and energy systems anchoring an integrated relation with the other disciplines and also how to develop the electronic devices which may be involved in such an electric power system. The continuous target of the energy systems research field is to study and develop energy and related systems in order to support the dynamism of modern and future society.

In this course, fundamental scholastic ability and practice-minded knowledge are cultivated through education of the corresponding undergraduate course. Also, due to the close interrelationship with other two courses in this major, knowledge of system application is to be deepened.

Electronic Devices and Light Wave Control Engineering

This research area consists of solid electronic engineering, semi-conducting material engineering, energy transforming element engineering and opto-electronics.

Electronic devices which utilize the basic properties of semi-conductors, magnetic substances, super-

conductors and dielectric substances are studied with regard to their properties and functions, including production technology, with the objective of improving the properties of electronic devices and developing new electronic and opto-electronic devices with new technology.

Electronic engineering plays an important role in modern society, contributing to wide areas including domestic electronic appliances, electronic computers, control devices and electronic devices for educational and medical use. It is to be said that electronic engineering has become indispensable to every aspect of science and technology. Therefore, it is no exaggeration to say that the future development of science and technology depends on the close interrelation of electronic engineering to all other disciplines. Because of this reasoning, great expectations are held of leading engineers to partake in the development and production of electronic devices to support future development.

In addition fundamental scholastic ability and practice-minded knowledge are cultivated through education of the corresponding undergraduate course. Furthermore, due to the close interrelationship with other two courses in this major, knowledge of system application is to be deepened.

Information, Telecommunication and Control Systems

This research area is concerned with studying the information and telecommunication systems which are considered to be worthwhile in the present global age supported by the diverging evolution of the information technology.

Activity in this research area is focused on the following disciplines: electronic computer engineering, human information processing, mathematical informatics, digital signal processing, human interface and sound communication systems, multi-media information processing, electric circuit theory, knowledge-based information processing, and natural language processing, and cybernetics. These research fields are closely related to the previously mentioned two courses because the information technology may play a crucial role as an infra-technology in the modern industrial society which requires global human communication systems as is well appreciated nowadays. Performance-improving developments and new proposals in these areas are among the main priorities determining the research area activity.

In similar to the above-mentioned two courses, fundamental scholastic ability and practice-minded knowledge are cultivated through education of the corresponding undergraduate course. In addition, due to the close interrelationship with other two courses in this major, knowledge of system application is to be deepened.

3. Information and Management Systems Engineering

It is clear that Information & Communication Technology(ICT) is transforming not only ways of doing business but also the basis of society as we know it and that it will increasingly be the key to the creation of successful and competitive businesses in the future.

However, the successful transition to the new information society will require not only the development of groundbreaking new information technology itself but also the expertise to take full advantage of the strategic potential of information technology. Although leading the world in many areas of electronics, data processing and communication technology, Japan lags behind in the application of ICT to creation of innovative new management and social systems. This situation is undoubtedly due in large part to a shortage of highly-skilled manpower with sufficient mastery of the new technology to develop new applications for the design, implementation and control of management information systems.

The objective of this Department is to study information and management systems and to train specialists with the expertise knowledge and skills necessary to develop the vast potential of information and management technology and to do so with an appreciation of socioeconomic environment of the real world. Such expertise is necessary to imagine totally new and different social structures and to develop innovative ways of organizing and managing businesses.

Research Areas

Applied Informatics

The Applied Informatics Group conducts education and research to analyze humans from the viewpoint of informatics and to integrate the analytical results for developing artificial systems in the manner of systems engineering. For the purpose we study complicated human physiology and psychology as well as behaviors to solve those principles, then utilize the discoveries to develop new systems, e.g. for controlling the human situation to the appropriate state and for assisting humans on daily tasks.

Management System

In order to manage companies or organizations, corporate managers must undertake various issues including organizational, managerial as well as strategic ones. Corporate management should be also conducted taking into account structure changes caused by economic globalization, technology innovation, energy and natural resources, the global environment, the financial environment, and even international politics. The Management Systems Group conducts education and research about management systems based on social sciences as well as the viewpoint of informatics.

Data Science

Our daily lives could be supported by various information technologies. Some of them are those to record and analyze human activities, e.g. political, economic, educational and cultural activities as well as behaviors in the daily lives including those in the Internet, which might facilitate well-being in our future daily lives. The Social Information Systems Group conducts education and research to analyze human behaviors, activities and their interactions with informatics and to apply the results to artificial systems that support our daily lives.

4. Materials Science and Bioengineering

The major of Materials Science and Bioengineering aims to develop engineers who can learn, integrate, and implement the following two approaches: the materials science approach to artificially control the structures of the finite varieties of atoms and compounds through combinations and interactions in order to create new materials, as well as the bioengineering approach to discover the engineering applications of biological functions that comprise complex, diverse, and multilevel systems. This major offers a creative educational curriculum that emphasizes the comprehensive acquisition of knowledge on materials science and biotechnology, undertaking of creative research through participation in research projects, and cultivation of the presentation skills needed to make strong impressions when communicating one's research results to an international audience.

This major aims to develop leading engineers and researchers who can succeed internationally and contribute to society's sustainable development; are able to apply information technology to research and development as well as the reformation of production processes; and possess the practical abilities to engage in problem solving in the development of cutting-edge materials that play crucial roles in future creative industries, social changes, the environment, health care, long-term care, and agriculture.

Content of Courses

This major has three courses, Resource Utilization Engineering Course, Materials Creation Engineering Course, and Biological and Environmental Engineering Course.

Research Areas

Resource Utilization Engineering

This research division is concerned with effective and value-added utilization of plant resources by plant breeding and microbial functions, development and creation of chemicals and materials from various natural resources. It also aims to harness various environmental and natural resources for production of renewable energy. Specific research topics include useful plants by new molecular breeding techniques, green building construction using moss plants, microbial conversions of cellulose and lignin to high value products, microbial synthesis of nanocellulose, bio-manufacturing based on the

latest fermentation science, recycling and generation of high value products from natural rubber and its waste, development and application of environment-friendly and sustainable materials, development of ceramic materials that can effectively utilize various elements, computational analysis of a wide range of substances, hydrogen generation from water by photocatalyst, development of materials for solid polymer fuel cells, and lifetime extension of lithium ion secondary batteries.

Materials Creation Engineering

This research division deals with technologies for material synthesis, physical and chemical characteristics of natural and biological materials, material manufacturing processes, computer-based prediction of structure/physical properties, and evaluation of materials for various uses. By understanding world-wide progresses in the field of material sciences, the research division makes full use of data-driven material development (Material DX), bioinformatics, and life cycle assessment (LCA). The ultimate aim is to foster engineers and researchers with an international perspective who take the initiative in part or all of the creation of innovative materials with simultaneously controlling each layer from the atomic and molecular levels of substances and organisms to the nano-micro to visible scales where they are aggregated. Creation of cutting-edge and innovative materials will be implemented in society in concert with environment and nature.

Biological and Environmental Engineering

This research division aims to improve environmental sustainability and human health using biological materials and systems. Understanding biological molecules and organisms is also at the heart of this research area. Specific research topics include development of materials for environmental measurement and improvement, new functional materials for medical application, environmental remediation using microorganisms, molecular and cellular engineering for clinical application, and wildlife management technology.

5. Civil and Environmental Engineering

Civil and Environmental engineering is the discipline of construction of the infrastructure which helps people to maintain a highly developed civilization while securing harmony with the nature environment, and this major aims to create new technology which can solve various problems in construction of infrastructure with a wide view and deep insight from the standpoint of earth engineering.

Therefore, this major instructs students in high-level technology in each area through lectures, experiments and training and, at the same time, offers a chance to study interdisciplinary areas and management, planning, life cycle based design for sustainable development, and natural disaster prevention and restoration which are essential knowledge for civil engineers. Thus, this major aims to train students as civil engineers who can solve practical problems in civil and environmental engineering from a wide viewpoint.

This major is divided into four research areas called Infrastructure Design Engineering, Infrastructure Management Engineering, Disaster Prevention Systems Engineering and Environment Management Engineering.

Content of Courses

Understanding that construction works, as they become large-scaled, have a grave impact on human society and the natural environment, courses offered fully take into account various effects and impacts of construction and are woven under an integrated view.

Research Areas

Infrastructure Design Engineering

This research area is composed of three groups: regional and urban planning group, geotechnical engineering group and transportation engineering group. The regional and urban planning group focuses on land use analysis, policy and planning. The geotechnical engineering group studies soil engineering,

especially focuses on mechanical property of various soils and advanced technology in tunneling engineering. The transportation engineering group studies all around technology for construction and maintenance of paved road.

Infrastructure Management Engineering

This research area is composed of three groups: social system management group, steel structural engineering group and concrete engineering group. The social system management group studies the management of social system including SCM and TDM, and the evaluation of management policy especially in transportation. The steel structural engineering group studies the basic aspects of structural analysis, corrosion durability of steel structures and observation based maintenance system. The concrete engineering group studies the properties of concrete, durability and structural performance of concrete structures.

Disaster Prevention Systems Engineering

This research area is composed of four groups: disaster prevention and restoration systems group, hydraulic engineering group, environment and disaster prevention engineering group and earthquake engineering group. The disaster prevention and restoration systems group focuses on advanced planning and policy for disaster prevention and restoration. The hydraulic engineering group, the environment and disaster prevention engineering group and the earthquake engineering group study characteristics of disaster-causing natural phenomena and carry out basic and applied research on modern development of infrastructure. River engineering, coastal engineering, geotechnical earthquake engineering including strong motion seismology, slope engineering and simulation of earth structures are some of the topics covered. Risk assessment for various disasters is focused.

Environment Management Engineering

This research area is composed of three groups: global environment engineering group, water environment control engineering group and resource-energy recycle engineering group. The global environment engineering group focuses on the water and energy cycle at all spatial and temporal scales, fully utilizing in-situ and remote sensing data and high-speed, large sized computers. The water environment control engineering group focuses on the advanced technology of wastewater treatment and biotechnology for protection of the water environment. The resource-energy recycle engineering group studies the treatment technology of solid and hazardous wastes and environment-oriented production process technology.

6. Nuclear Technology

Content of Courses

Education Objectives

The objective of this major is to train practical and leading engineers who are able to ensure safety in the planning, development, and operation of light water reactors, advanced reactors, and nuclear fusion systems, used in nuclear power plants, nuclear reactor equipment manufacturers, nuclear fuel processing companies, and nuclear-related research laboratories around the world through the application of system safety. This major offers subjects that enable the integrated acquisition of system safety engineering knowledge based on nuclear engineering (from nuclear physics to back-end technologies) and risk-based design for graduates of universities or technical college advanced courses who have specialized knowledge in the fundamental engineering fields of mechanical engineering, electrical engineering, materials science, civil engineering, and bioengineering. The subjects are composed of lectures, practical training, and experiments. Together with the consolidation of each student's research activities in their master's thesis and presentation, the major aims to train students in nuclear technology expertise that can prevent catastrophic disasters, even in cases of malfunctions or accidents.

Education Objectives

The goals of this major are to train nuclear technology engineers and researchers who have the following knowledge/abilities and are able to excel in international society:

- (1) Fundamental knowledge related to safety engineering for designing nuclear equipment.
- (2) Basic knowledge on communication, risk assessment, and relevant laws for conducting safety management.
- (3) Knowledgeable about nuclear physics, materials science and chemistry, thermal hydrodynamics, and electrical power generation and transformation technologies required for the use of nuclear equipment.
- (4) Communication ability to obtain understanding from others regarding the logical construct of research content, thereby facilitating the development and spread of new nuclear technologies.

Research Areas

Subject Organization

Nuclear technology involves the application of safety technology and safety management to fundamental nuclear technologies, and is centered on ensuring safety for each target device. The subjects in this major include both compulsory subjects and elective subjects, which are divided into 3 main categories: 1) Advanced Radiation Engineering, 2) Nuclear System Engineering, and 3) Nuclear Safety Engineering.

7. System Safety Engineering

In an integrated composite of hardware/software, humans, laws/criteria and so on, to achieve the acceptable risk throughout all phases of the life cycle such as design, production and use, it is required to reveal all hazards in advance systematically and to analyze and evaluate the effects of those on the associated risks and finally to take adequate safety measures. System safety is a discipline which integrates and applies both safety technologies and safety management skills to perform all the required actions mentioned above. The objective of this department is to provide engineering education to students, based on the concept of system safety, so as to become researchers and practical professional experts.

Research Areas

Safety-Certification

In order for industry to maintain and develop its international competitiveness with foreign countries, knowledge of internationally organized safety certification is indispensable. In this area, we conduct technological development and research related to safety certification. For example, it involves learning and understanding the basic knowledge of safety certification, developing a new safety certification scheme, study on new safety certification standards, and the validity of newly proposed international standards. Graduates can acquire advanced knowledge, practical ability, and research ability to carry out their duties as leaders such as safety certification of their own products at manufacturers, product certification at safety certification companies, and so on.

Safety Standard and Design

This research area covers safety standards and design methods. The education and research work on safety standards deal with the concept and structure of safety standards and how to understand "safety." Safety standards are mainly international, regional and national standards and these standards often have relation with regulations. The education and research work on design methods deal with the design procedure globally accepted and established. Based on these fundamentals on safety design, considerations how to apply to the design procedures for the extend field with advanced technology, such as functional safety using AI, IoT and so on, are current topics in this field.

Safety Management

Since the pioneering work of W. H. Heinrich in the early 20th century, safety management of workplaces has been the most important area of scientific studies for safety researchers and professionals. How to design organizations, train staff, motivate employees, and make a scientific analysis of causes of injury are the most commonly asked questions among safety professionals. In the latter half of the 20th century, traffic safety, complex socio-technical systems safety, medical safety, and consumer safety emerged as new areas for safety management studies. Several new questions, such as how to design social, institutional and legal environments, how to analyze psychological aspects of human behavior, and so on, have been added to the research agenda. In the coming years, along with the extensive use of information technologies, how to manage safety data will become another important topic for safety professionals.

8. Common courses

(1) Objectives of the Common Subjects

In order to develop advanced leading engineers with the practical and creative abilities to bring about global technological development, NUT aims to instill program-specific expertise and technical skills, as well as the following 3 abilities and qualities: multifaceted and flexible thinking abilities in science and technology, strategic technological development abilities, and global engineer leadership skills. The common subjects are designed to teach students these abilities and qualities, and are offered to students from all programs.

(2) Subject Organization

The common subjects are organized into the following 10 groups to support the development of the aforementioned abilities and qualities. Information in parentheses indicate the corresponding undergraduate and master's programs diploma policies (Degree Conferment Policies 1 –4).

OMultifaceted and flexible thinking abilities in science and technology (B1, M2)

- A. Ability to utilize the concepts and techniques of science and mathematics that support technology.
- B. Ability to comprehend technology from the perspectives of life, people, and society.
- C. Trained to understand and conceptualize combined technologies involving multiple specialized fields.

OStrategic technological development abilities (B2, M3)

- D. Possess the language and logical skills needed to form the basis for understanding, thinking, expression, and dialogue.
- E. Ability to consider the effects of technology on safety, environment, and culture.
- F. Trained to have technology management skills that can interpret trends in global society and industries.

OGlobal engineer leadership skills (B4, M4)

- G. Ability to communicate about technology in English.
- H. Ability to collaboratively work within a team with an international perspective.
- I. Ability to perform international competitive activities fairly as an organizational member.
- * J. Includes content from multiple groups (A to I).

The university selects the subjects related to Economics and Management, and safety as recommended subjects to learn as engineers. The subjects indicated as "Safety" in the remarks of Attached Table are the subjects related to safety and ones indicated as "Economics and Management" in the remarks of Attached Table are the subjects related to Economics and Management. These subjects are elective and students are strongly recommended to take.

(3) Subject Requirements and Criteria

With the exception of subjects for students in graduate school special courses, all common subjects are elective. Students except major in System Safety Engineering require 6 credits or more from these subjects.

Credits for "Cross-cultural Mapping: Developing Your Cultural Awareness" will be awarded based on a total of 2 months or more of overseas experience (applicable only to educational and research activities conducted at a graduate school). In order to acquire credits, students must attend 3 lectures (intensive) and submit a report before departing for the overseas experience. Therefore, students intending to acquire credits for this subject should take these lectures in advance.

≪5-year Integrated Doctoral Program≫

Science of Technology Innovation

(1) Fostering Human Resources

This department offers a 5-year integrated doctoral program that combines the conventional master's program and doctoral program. In this program, students may acquire a doctoral degree in as little as 3 years without having to undergo master's thesis screening, as well as participate in long-term overseas study programs and earn an MBA.

With a foundation in advanced research capabilities and an education that incorporates different disciplines and cultures, we aim to cultivate outstanding leaders (global innovation leaders) that are globally competitive, have the power to innovate, and the ability to drive Japanese and global industries. The following exemplify the types of personnel that we aim to foster in this department.

♦ Startup Company/Business-Oriented Personnel

Here, we cultivate engineers with the ability to adopt a managerial perspective by integrating front-line research experience in specialist fields with an MBA earned from the International University of Japan, which is a collaborative partner of Nagaoka University of Technology.

♦ Project Manager-Oriented Personnel

By providing experience in multidisciplinary research projects, we train project managers who are able to implement a cross-disciplinary approach.

(2) Education Objectives

With a focus on the target personnel described above, this program aims to facilitate the acquisition of the following abilities in students to cultivate global innovation leaders who can play an active role at the international level.

- 1. A strong interest in the courses and research conducted at Science of Technology Innovation, the ability to innovate at the global level, and fulfill a leading role in the advancement and development of the world's industries
- 2. Advanced research capabilities in various fields (such as mechanical engineering, electrical engineering, materials science, civil engineering, and bioengineering), a multifaceted perspective, as well as practical and interdisciplinary integrated capabilities in science and technology
- 3. English language ability, communication capability, facilitation capability, research proposal development capability, and the fundamental capabilities for business development that can aid in research, project promotion, and information transmission
- 4. Ability to recognize the core essence of a research topic through scientific methods, and to deduce truly innovative solutions
- 5. Farsighted perspective, business-mindedness, strong ethical values, and the ability to practically utilize these abilities

大学院工学研究科修士課程 Graduate School of Engineering (Master's Program)

※印は、他に主担当の専攻・分野を有する教員を表します。

Note: In the "Title" column, * indicates the staff who hold another main major of field.

*印は、その個数によって、今後5年以内に定年退職予定の教員を表します。

志望する課程の修業年限に照らして、研究室への受入可否を出願前に教員とご相談ください。

Note: In the "Name" column, the number of * indicates staff who will be retired within the next five years.

Before you apply, please consult with your prospective supervisor about plans if he/she retires before you graduate.

* : 2026年3月末退職予定 * indicates the staff who will be retired on March 31, 2026."

** : 2027年3月末退職予定 ** indicates the staff who will be retired on March 31, 2027."

** : 2028年3月末退職予定 *** indicates the staff who will be retired on March 31, 2028."

**** : 2029年3月末退職予定 **** indicates the staff who will be retired on March 31, 2029."

**** : 2030年3月末退職予定 ***** indicates the staff who will be retired on March 31, 2030."

工学専攻

1. 機械工学分野 Mechanical Engineering

(1)機械情報・制御工学講座 Information and Control Engineering group

職 名 Title	氏 名 Name	研 究 室 等 Laboratory
教 授	明田川 正人 *	ナノメートル・ピコメートル計測制御研究室
Professor	AKETAGAWA, Masato	Nanometer & Picometer Measurement Control Laboratory
教 授	遠藤 孝浩	知能機械システム学研究室
Professor	ENDO, Takahiro	Intelligent Machine System Engineering Lab
教 授※	木村 哲也	レスキュー工学研究室
Professor	KIMURA, Tetsuya	Rescue Engineering Laboratory
教 授	倉橋 貴彦	数理設計研究室
Professor	KURAHASHI, Takahiko	Mathematical Design Laboratory
教 授※	三好 孝典 ****	協働ロボット研究室
Professor	MIYOSHI, Takanori	Collaborative Robot Laboratory
准教授	韋 冬	ナノメートル・ピコメートル計測制御研究室
Associate Professor	WEI, Dong	Nanometer & Picometer Measurement Control Laboratory
准教授	小林 泰秀	騒音・振動制御工学研究室
Associate Professor	KOBAYASHI, Yasuhide	Noise and Vibration Control Laboratory
助 教	上林 恵太	数理設計研究室
Assistant Professor	KANBAYASHI, Keita	Mathematical Design Laboratory

(2) 設計・生産工学講座 Design and Production Engineering group

	88 1
氏 名 Name	研 究 室 等 Laboratory
會田 英雄	結晶工学研究室
AIDA, Hideo	Crystal Engineering Laboratory
阿部 雅二朗 *	機械 - 環境系設計工学研究室
ABE, Masajiro	Machine-Environment System Design Engineering Laboratory
磯部 浩已	精密加工・機構研究室
ISOBE, Hiromi	Precision Machining and Mechanism Laboratory
太田 浩之 ****	機械要素研究室
OHTA, Hiroyuki	Laboratory of Machine Elements
山崎 洋人	ナノ光生命流体工学研究室
YAMAZAKI, Hirohito	Nanoscale Opto Biofluidics Lab
川村 拓史	精密加工・機構研究室
KAWAMURA, Hirofumi	Precision Machining and Mechanism Laboratory
横田 和哉	機械 - 環境系設計工学研究室
	會田 英雄 AIDA, Hideo 阿部 雅二朗 * ABE, Masajiro 磯部 浩已 ISOBE, Hiromi 太田 浩之 **** OHTA, Hiroyuki 山崎 洋人 YAMAZAKI, Hirohito 川村 拓史 KAWAMURA, Hirofumi

Assistant Professor	YOKOTA, Kazuya	Machine-Environment System Design Engineering Laboratory	
---------------------	----------------	-------------------------------------------------------------	--

(3)熱・流体工学講座 Fluids and Thermal Engineering group

職 名 Title	氏名 Name	研 宪 室 等 Laboratory
教 授	上村 靖司	雪氷工学研究室
Professor	KAMIMURA, Seiji	Snow & Ice Engineering Laboratory
教 授※	鈴木 正太郎	反応性流体工学研究室
Professor	SUZUKI, Masataro	Laboratory of Reactive Fluid Engineering
教 授	髙橋 勉 **	流体工学研究室
Professor	TAKAHASHI, Tsutomu	Fluids Engineering and Rheology Laboratory
教 授 ※	山形 浩史 ***	システム安全工学研究室
Professor	YAMAGATA, Hiroshi	System Safety Engineering Laboratory
准教授※	山﨑 渉	航空流体工学研究室
Associate Professor	YAMAZAKI, Wataru	Computational Fluid Dynamics Laboratory
助 教	杉原 幸信	雪氷工学研究室
Assistant Professor	SUGIHARA, Yukinobu	Snow & Ice Engineering Laboratory

(4) 材料システム工学講座 Materials Science and Engineering group

(4) 初州マハノム工丁冊注	Materials Science and Engineer	ring group
職 名 Title	氏名 Name	研究室等 Laboratory
教 授	武田 雅敏	エネルギー材料研究室
Professor	TAKEDA, Masatoshi	Energy Materials & Devices Laboratory
教 授	南口 誠	高温材料研究室
Professor	NANKO, Makoto	High Temperature Materials Laboratory
教 授	宮下 幸雄	材料強度・接合強度研究室
Professor	MIYASHITA, Yukio	Strength of advanced materials and joints
准教授※	大塚 雄市	構造安全性評価研究室
Associate Professor	OTSUKA, Yuichi	Structural Integrity Assessment
准教授	馬場 将亮	エネルギーマネジメント材料研究室
Associate Professor	BABA, Masaaki	Energy Management Materials Laboratory
准教授	本間 智之	ナノ・原子レベル解析研究室
Associate Professor	HOMMA, Tomoyuki	Nano & Atomic Scale Analysis Laboratory
准教授	中田 大貴	先端軽金属材料研究室
Associate Professor	NAKATA, Taiki	Advanced Light Metals Laboratory
助教	郭 妍伶	高温材料研究室
Assistant Professor	KUO YENLING	High Temperature Materials Laboratory
助教	チャン ナン	材料強度・接合強度研究室
Assistant Professor	ZHANG NAN	Strength of advanced materials and joints
助 教	山下 健	高温材料研究室
Assistant Professor	YAMASHITA, Ken	High Temperature Materials Laboratory

(5) 創未来テクノロジー講座 Innovative Interdisciplinary Mechanical Engineering group

職 名 Title	氏 名 Name	研究室等 Laboratory
教 授※	中山 忠親	環境・プロセスデザイン研究室
Professor	NAKAYAMA, Tadachika	Environment and Process Design Laboratory
教 授※	山田 昇	エネルギー工学研究室
Professor	YAMADA, Noboru	Energy Engineering Laboratory

准教授	勝身 俊之	燃焼エネルギー研究室
Associate Professor	KATSUMI, Toshiyuki	Combustion and Energy Laboratory
准教授	庄司 観	ナノ・バイオインテグレーテッドシステム研究室
Associate Professor	SHOJI, Kan	Nano/Bio Integrated System Laboratory
准教授	溝尻 瑞枝	マイクロ・ナノプロセス応用研究室
Associate Professor	MIZOSHIRI, Mizue	Micro/Nano Processing Laboratory
助 教	滝本 祐也	環境・プロセスデザイン研究室
Assistant Professor	TAKIMOTO, Yuya	Environment and Process Design Laboratory

2. 電気電子情報工学分野 Electrical, Electronics and Information Engineering

(1) 電気エネルギー・制御工学講座 Electric Energy and Control Engineering group

職 名 Title	氏 名 Name	研 宪 ン 等 Laboratory
教 授※	伊東 淳一	パワーエレクトロニクス研究室
Professor	ITOH, Jun-ichi	Power Electronics Laboratory
教 授※	菊池 崇志	プラズマ力学研究室
Professor	KIKUCHI, Takashi	Plasma Dynamics Laboratory
教 授※	江 偉華 **	パルスパワー研究室
Professor	JIANG, Weihua	Pulsed Power Laboratory
教 授 ※	佐々木 徹	プラズマ力学研究室
Professor	SASAKI, Toru	Plasma Dynamics Laboratory
教 授	三浦 友史	電力工学研究室
Professor	MIURA, Yushi	Power Engineering Laboratory
教 授	宮崎 敏昌	メカトロニクス研究室
Professor	MIYAZAKI, Toshimasa	Mechatronics Laboratory
准教授	日下 佳祐	先進エネルギー変換研究室
Associate Professor	KUSAKA, Keisuke	Advanced Energy Conversion Labratory
准教授※	須貝 太一	パルスパワー研究室
Associate Professor	SUGAI, Taichi	Pulsed Power Laboratory
准教授	髙橋 一匡	プラズマ力学研究室
Associate Professor	TAKAHASHI, Kazumasa	Plasma Dynamics Laboratory
准教授	横倉 勇希	モーションコントロール研究室
Associate Professor	YOKOKURA, Yuki	Motion Control Laboratory
助教	チャン フォン タオ	メカトロニクス研究室
Assistant Professor	TRAN PHUONG THAO	Mechatronics Laboratory
助教	パドロン パラガ ファン ビセンテ	メカトロニクス研究室
Assistant Professor	PADRON PARRAGA JUAN VICENTE	Mechatronics Laboratory
助教	舟木 秀明	電力工学研究室
Assistant Professor	HUNAKI, Hideaki	Power Engineering Laboratory
助教	渡辺 大貴	パワーエレクトロニクス研究室
Assistant Professor	WATANABE, Hiroki	Power Electronics Laboratory

(2) 電子デバイス・光波制御工学講座 Electronic Devices and Light Wave Control Engineering group

職 名 Title	氏名 Name	研 究 室 等 Laboratory
教 授	鵜沼 毅也	ナノエレクトロニクス研究室
Professor	UNUMA, Takeya	Nanoelectronics Laboratory
教 授	小野 浩司 ***	応用波動光学研究室
Professor	ONO, Hiroshi	Applied Waveoptics Laboratory

教 授	加藤 有行	光物性工学研究室
Professor	KATO, Ariyuki	Hikari Engineering Physics Laboratory
教 授	木村 宗弘	液晶デバイス研究室
Professor	KIMURA, Munehiro	Liquid Crystal Device Laboratory
教 授※	末松 久幸 ****	高出力レーザー開発・応用工学研究室
Professor	SUEMATSU, Hisayuki	High Power Laser Development and Application Engineering Laboratory
教 授※	鈴木 常生	加速器応用・新材料設計研究室
Professor	SUZUKI, Tsuneo	Accelerator Applications and Novel Material Design Laboratory
教 授	田中 久仁彦	光エネルギーデバイス研究室
Professor	TANAKA, Kunihiko	Photo-Energy Devices Laboratory
准教授	岡元 智一郎	電子セラミックス研究室
Associate Professor	OKAMOTO, Tomoichiro	Electroceramics Laboratory
准教授	坂本 盛嗣	応用波動光学研究室
Associate Professor	SAKAMOTO, Moritsugu	Applied Waveoptics Laboratory
准教授	佐々木 友之	電磁波制御デバイス研究室
Associate Professor	SASAKI, Tomoyuki	Electromagnetic Wave Control Device Laboratory
准教授	玉山 泰宏	メタマテリアル研究室
Associate Professor	TAMAYAMA, Yasuhiro	Metamaterials Laboratory
准教授	山下 智樹	計算材料科学研究室
Associate Professor	YAMASHITA, Tomoki	Computational Materials Science Laboratory
助教	金井 綾香	光エネルギーデバイス研究室
Assistant Professor	KANAI, Ayaka	Photo-Energy Devices Laboratory
助教	柴田 陽生	液晶デバイス研究室
Assistant Professor	SHIBATA, Yosei	Liquid Crystal Device Laboratory
		· · · · · · · · · · · · · · · · · · ·

(3)情報通信制御工学講座 Information, Telecommunication and Control group

	· •	<u> </u>
職 名 Title	氏 名 Name	研 究 室 等 Laboratory
教 授	岩橋 政宏 *****	画像・メディア工学研究室
Professor	IWAHASHI, Masahiro	Image and Media Information Laboratory
教 授	坪根 正	非線形システム工学研究室
Professor	TSUBONE, Tadashi	Nonlinear System Engineering Laboratory
准教授	杉田 泰則	信号処理応用研究室
Associate Professor	SUGITA, Yasunori	Signal Processing Application Laboratory
准教授 💥	南部 功夫	脳情報工学研究室
Associate Professor	NAMBU, Isao	Neural Engineering Laboratory
准教授	原川 良介	画像・メディア工学研究室
Associate Professor	HARAKAWA, Ryosuke	Image and Media Information Laboratory
准教授	平沢 壮	画像計測システム工学研究室
Associate Professor	HIRASAWA, Takeshi	Imaging and sensing system laboratory
准教授	眞田 亜紀子	データシーケンス構造研究室
Associate Professor	MANADA, Akiko	Laboratory for Data Sequence Structure
講師	豊田 充	システム制御工学研究室
Lecturer	TOYODA, Mitsuru	System Control Engineering Laboratory
助教	白清 学	非線形システム工学研究室
Assistant Professor	HAKUSEI, Manabu	Nonlinear System Engineering Laboratory
助教	藤井 賢吾	画像・メディア工学研究室
Assistant Professor	FUJII, Kengo	Image and Media Information Laboratory

助教	和田森 直	非線形システム工学研究室
Assistant Professor	WADAMORI, Naoki	Nonlinear System Engineering Laboratory

3. 情報・経営システム工学分野 Information and Management Systems Engineering

(1) 応用情報学講座 Applied Informatics group

職 名 Title	氏 名 Name	研 究 室 等 Laboratory
教 授	土居 裕和	認知神経情報学研究室
Professor	DOI, Hirokazu	Cognitive Neuroinformatics Laboratory
教 授	野村 収作	アンビエント生体医工学研究室
Professor	NOMURA, Shusaku	Ambient Biomedical Engineering Laboratory
准教授	秋元 頼孝	実験心理学研究室
Associate Professor	AKIMOTO, Yoritaka	Experimental Psychology Laboratory
准教授	大岩 孝輔	医療・福祉支援工学研究室
Associate Professor	OIWA, Kosuke	Medical and Human Support Engineering Laboratory
准教授	大橋 智志	スポーツ工学・情報学研究室
Associate Professor	OHASHI, Satoshi	Sports Engineering and Informatics Laboratory
准教授	奥島 大	スポーツ生理・情報・工学研究室
Associate Professor	OKUSHIMA, Dai	Sports Physiology, Informatics and Engineering Laboratory
准教授	中平 勝子	知覚情報科学研究室
Associate Professor	NAKAHIRA, Katsuko, T.	Perceptual Informatics Laboratory
准教授	西山 雄大	理論生命科学研究室
Associate Professor	NISHIYAMA, Yuta	Theoretical Life Science Laboratory
助教	エディリシンハ アーラッ チゲー チャヤニ ディル クシ	アンビエント生体医工学研究室
Assistant Professor	EDIRISINGHE ARACHCHIGE CHAYANI DILRUKSHI	Ambient Biomedical Engineering Laboratory
助教	永森 正仁	スポーツ工学・情報学研究室
Assistant Professor	NAGAMORI, Masahito	Sports Engineering and Informatics Laboratory

(2)マネジメントシステム講座 Management System group

12) VALVE A VALVE AND A VALVE AND		
職 名 Title	氏 名 Name	研 究 室 等 Laboratory
教 授	李 志東 **	3 E (エネルギー、環境、経済)研究室
Professor	LI, Zhidong	3E's (Energy, Environment and Economy) Laboratory
教 授	綿引 宣道	経営社会研究室
Professor	WATAHIKI, Nobumichi	Economic Sociology
准教授	鈴木 信貴	経営戦略・技術経営・ものづくり経営研究室
Associate Professor	SUZUKI, Nobutaka	Strategic, Technology and Manufacturing Management Laboratory
講師	雲居 玄道	機械学習理論研究室
Lecturer	KUMOI, Gendo	Theory of Machine Learning Laboratory
助 教 💥	ヌル アデリン ビンティ アブ バカル	機械学習理論研究室
Assistant Professor	NUR ADLIN BINTI ABU BAKAR	Theory of Machine Learning Laboratory
助 教	周 蕾	経営社会研究室
Assistant Professor	Lei, Zhou	Economic Sociology

(3) データサイエンス講座 Data Science group

職 名 Title	氏名 Name	研 宪 室 等 Laboratory
教 授	羽山 徹彩	知識メディア研究室
Professor	HAYAMA, Tessai	Knowledge Media Laboratory
教 授	湯川 高志 ***	知識システム研究室
Professor	YUKAWA, Takashi	Knowledge Systems Laboratory
准教授※	張坤	安全データマネジメント研究室
Associate Professor	ZHANG, Kun	Safety data management Laboratory
助 教	安藤 雅洋	知識システム研究室
Assistant Professor	ANDO, Masahiro	Knowledge Systems Laboratory
助教	金崎 権	知識システム研究室
Assistant Professor	KANESAKI, Chikara	Knowledge Systems Laboratory
助 教	黒田 大貴	知識メディア研究室
Assistant Professor	KURODA, Hiroki	Knowledge Media Laboratory
助 教	鈴木 泉 ***	知識システム研究室
Assistant Professor	SUZUKI, Izumi	Knowledge Systems Laboratory
助 教	吉田 富美男 **	知識システム研究室
Assistant Professor	YOSHIDA, Fumio	Knowledge Systems Laboratory

4. 物質生物工学分野 Materials Science and Bioengineering

(1)資源活用工学講座 Resource Utilization Engineering group

17 負傷估用工子講座 Resource Offization Engineering group		
職 名 Title	氏 名 Name	研究室等 Laboratory
教 授※	小笠原 渉	発酵科学研究室
Professor	OGASAWARA, Wataru	HAKKO Science Laboratory
教 授	河原 成元	グリーン資源化学研究室
Professor	KAWAHARA, Seiichi	Laboratory of Green Resources Chemistry
教 授※	田中 諭	セラミックス構造設計研究室
Professor	TANAKA, Satoshi	Ceramic Material Design Laboratory
教 授	政井 英司 *****	微生物代謝工学研究室
Professor	MASAI, Eiji	Laboratory of Microbial Metabolic Engineering
准教授	上村 直史	微生物代謝工学研究室
Associate Professor	KAMIMURA, Naofumi	Laboratory of Microbial Metabolic Engineering
准教授	志田 洋介	発酵科学研究室
Associate Professor	SHIDA, Yosuke	HAKKO Science Laboratory
准教授	白仁田 沙代子	エネルギー材料科学研究室
Associate Professor	SHIRONITA, Sayoko	Materials Science for Energy Laboratory
准教授	髙原 美規 ****	応用植物工学研究室
Associate Professor	TAKAHARA, Yoshinori	Laboratory of Applied Plant BioTechnology
准教授	西村 泰介	植物エピジェネティクス工学研究室
Associate Professor	NISHIMURA, Taisuke	Laboratory of Plant Epigenetics
助 教	中村 彰宏	発酵科学研究室
Assistant Professor	NAKAMURA, Akihiro	HAKKO Science Laboratory
助 教	藤田 雅也	微生物代謝工学研究室
Assistant Professor	FUJITA, Masaya	Laboratory of Microbial Metabolic Engineering
助教	山野 将輝	グリーン資源化学研究室
Assistant Professor	YAMANO, Masaki	Laboratory of Green Resources Chemistry

(2) 材料創成工学講座 Materials Creation Engineering group

職 名 Title	氏名 Name	研 宪 室 等 Laboratory
教 授	石橋 隆幸	光・磁性材料工学研究室
Professor	ISHIBASHI, Takayuki	Optic & Magnetic Materials Laboratory
教 授	今久保 達郎	超分子物性化学研究室
Professor	IMAKUBO, Tatsuro	Laboratory of Supramolecular Solid State Chemistry
教 授	本間 剛	機能ガラス工学研究室
Professor	HONMA, Tsuyoshi	Functional Glass Engineering Laboratory
教 授	前川 博史 *****	有機反応設計研究室
Professor	MAEKAWA, Hirofumi	Laboratory of Organic Reaction Design and Synthesis
准教授	木村 悟隆 *****	高分子機能工学研究室
Associate Professor	KIMURA, Noritaka	Polymer Functionalization Laboratory
准教授	桑原 敬司	生物材料工学研究室
Associate Professor	KUWAHARA, Takashi	Material Laboratory for Bioengineering
准教授	西川 雅美	機能材料化学研究室
Associate Professor	NISHIKAWA, Masami	Functional Materials Chemistry Laboratory
准教授	藤原 郁子	生体運動研究室
Associate Professor	FUJIWARA, Ikuko	Laboratory for Biological Motility
准教授	船津 麻美	表面・界面化学研究室
Associate Professor	FUNATSU, Asami	Surface & interface chemistry laboratory
助教	チャフィ ファティマ ザーハラ	光・磁性材料工学研究室
Assistant Professor	CHAFI FATIMA ZAHRA	Optic & Magnetic Materials Laboratory
助 教	戸田 智之	高分子材料化学研究室
Assistant Professor	TODA, Tomoyuki	Laboratory of Polymer Materials Chemistry

(3) 生体環境工学講座 Biological and Environmental Engineering group

職 名 Title	氏名 Name	研究室等 Laboratory
教 授	斎藤 秀俊 ***	医療支援先進セラミックス研究室
Professor	SAITOH, Hidetoshi	Medical Supporting Advanced Ceramics Laboratory
教 授	高橋 祥司	環境生物化学研究室
Professor	TAKAHASHI, Shouji	Environmental Biochemistry Laboratory
教 授	滝本 浩一 *	分子生理工学研究室
Professor	TAKIMOTO, Koichi	Laboratory for Molecular Physiology
准教授※	大沼 清	システム幹細胞工学研究室
Associate Professor	OHNUMA, Kiyoshi	Stem Cell Technology Laboratory
准教授	笠井 大輔	環境微生物工学研究室
Associate Professor	KASAI, Daisuke	Laboratory of Applied and Environmental Microbiology
准教授	佐藤 武史	糖鎖生命工学研究室
Associate Professor	SATO, Takeshi	Laboratory of Glycobiology
准教授	霜田 靖	神経機能工学研究室
Associate Professor	SHIMODA, Yasushi	Laboratory for Molecular Neuroengineering
准教授	髙橋 由紀子	環境ナノ材料研究室
Associate Professor	TAKAHASHI, Yukiko	Nano Dyes and Thin Films Laboratory
准教授	多賀谷 基博	ナノバイオ材料研究室
Associate Professor	TAGAYA, Motohiro	Nano-Bio Materials Laboratory
准教授	山本 麻希	野生動物管理学研究室
Associate Professor	YAMAMOTO, Maki	Laboratory of Engineering of Wildlife Management

助教	今西 大生	環境生物化学研究室	
Assistant Professor	IMANISHI, Daiki	Environmental Biochemistry Laboratory	
助教	小松 啓志	光・電子セラミックス研究室	
Assistant Professor	KOMATSU, Keiji	Opto-Electronic Ceramics Laboratory	

5. 環境社会基盤工学分野 Civil and Environmental Engineering

(1)社会基盤デザイン講座 Infrastructure Design group

	2 2 1	
職 名 Title	氏 名 Name	研 究 室 等 Laboratory
教 授 ※	髙橋 修 ***	交通工学研究室
Professor	TAKAHASHI, Osamu	Highway Engineering Laboratory
教 授	豊田 浩史	地盤工学研究室
Professor	TOYOTA, Hirofumi	Geotechnical Engineering Laboratory
准教授	松川寿也	都市計画研究室
Associate Professor	MATSUKAWA, Toshiya	Urban Planning Laboratory
助教	丸岡 陽	都市計画研究室
Assistant Professor	MARUOKA, Akira	Urban Planning Laboratory

(2) 社会基盤マネジメント講座 Infrastructure Management group

職 名 Title	氏 名 Name	研 究 室 等 Laboratory
教 授	岩崎 英治 ***	鋼構造研究室
Professor	IWASAKI, Eiji	Steel Structural Engineering Laboratory
教 授	佐野 可寸志 ***	都市交通研究室
Professor	SANO, Kazushi	Urban Transport Engineering & Planning Laboratory
教 授	下村 匠 ****	コンクリート研究室
Professor	SHIMOMURA, Takumi	Concrete Laboratory
准教授	中村 文則	コンクリート研究室
Associate Professor	NAKAMURA, Fuminori	Concrete Laboratory
准教授	林 厳	鋼構造研究室
Associate Professor	HAYASHI, Gen	Steel Structural Engineering Laboratory
講師	加藤 哲平	都市交通研究室
Lecturer	KATO, Teppei	Urban Transport Engineering & Planning Laboratory
助教	稲葉 紅子	コンクリート研究室
Assistant Professor	INABA, Kouko	Concrete Laboratory

(3) 防災システム講座 Disaster Prevention Systems group

(0) [0] [0] [0]	and the control of second Broad	
職 名 Title	氏 名 Name	研 究 室 等 Laboratory
教 授	池田 隆明 ****	地震工学研究室
Professor	IKEDA, Takaaki	Earthquake Engineering Laboratory
教 授	細山田 得三 ***	水圏防災研究室
Professor	HOSOYAMADA, Tokuzo	Hydraulic Disaster Prevention Laboratory
准教授	犬飼 直之 *****	水圏防災研究室
Associate Professor	INUKAI, Naoyuki	Hydraulic Disaster Prevention Laboratory
准教授	髙橋 一義	防災・復興システム工学研究室
Associate Professor	TAKAHASHI, Kazuyoshi	Disaster resilience and reconstruction systems engineering laboratory
助教	志賀 正崇	地震工学研究室
Assistant Professor	SHIGA, Masataka	Earthquake Engineering Laboratory

(4) 環境マネジメント講座 Environment Management group

職 名 Title	氏 名 Name	研 宪 室 等 Laboratory
教 授	小松 俊哉 **	資源エネルギー循環研究室
Professor	KOMATSU, Toshiya	Laboratory of Resource and Energy Cycles
教 授※	姫野 修司	資源エネルギー循環研究室
Professor	HIMENO, Shuji	Laboratory of Resource and Energy Cycles
教 授※	山口 隆司	水圈土壤環境研究室
Professor	YAMAGUCHI, Takashi	Aqua and Soil Environmental Laboratory
教 授	陸 旻皎 *	水文気象研究室
Professor	LU, Minjiao	Laboratory of Hydrology and Meteorology
准教授※	太田 朋子	放射能環境動態工学研究室
Associate Professor	OHTA, Tomoko	Radioactive Environmental Dynamics and Engineerng Laboratory
准教授	熊倉 俊郎 ****	水文気象研究室
Associate Professor	KUMAKURA, Toshiro	Laboratory of Hydrology and Meteorology
准教授	幡本 将史	水圈土壤環境研究室
Associate Professor	HATAMOTO, Masashi	Aqua and Soil Environmental Laboratory
准教授 💥	牧 慎也	生命機能利用工学研究室
Associate Professor	MAKI, Shinya	Laboratory of Biological Function Applied Engineering
准教授	渡利 高大	水圈土壤環境研究室
Associate Professor	WATARI, Takahiro	Aqua and Soil Environmental Laboratory
助教	楊 宏選	水文気象研究室
Assistant Professor	YANG, Hongxuan	Laboratory of Hydrology and Meteorology
講師	辻 雅晴 **	水圏土壌環境研究室
Associate Professor	TSUJI, Masaharu	Aqua and Soil Environmental Laboratory

6. 量子·原子力統合工学分野 Nuclear Technology

(1)原子力安全講座 Nuclear Safety Engineering group

(27/7/1.47/3/ Zalli) Za Transacting Breat			
職 名 Title	氏 名 Name	研究室等 Laboratory	
教 授※	髙橋 修 ***	交通工学研究室	
Professor	TAKAHASHI, Osamu	Highway Engineering Laboratory	
准教授	大場 恭子	原子力社会工学研究室	
Associate Professor	OBA, Kyoko	Nuclear Social Engineering Laboratory	
准教授	竹澤 宏樹	原子力システム工学研究室	
Associate Professor	TAKEZAWA, Hiroki	Nuclear System Design Engineering Laboratory	
助教	松本 義伸	放射化学研究室	
Assistant Professor	MATSUMOTO, Yoshinobu	Laboratory for Nuclear and Radiochemistry	

(2)原子力技術講座 Nuclear System Engineering group

職 名 Title	氏 名 Name	研 究 室 等 Laboratory		
教 授	鈴木 達也	放射化学研究室		
Professor	SUZUKI, Tatsuya	Laboratory for Nuclear and Radiochemistry		
教 授	鈴木 常生	加速器応用·新材料設計研究室		
Professor	SUZUKI, Tsuneo	Accelerator Applications and Novel Material Design Laboratory		
准教授	太田 朋子	放射能環境動態工学研究室		
Associate Professor	OHTA, Tomoko	Radioactive Environmental Dynamics and Engineerng Laboratory		
助教	大沢 直樹	放射化学研究室		
Assistant Professor	OSAWA, Naoki	Laboratory for Nuclear and Radiochemistry		

(3) 量子·放射線講座 Advanced Radiation Engineering group

職 名 Title	氏 名 Name	研 究 室 等 Laboratory			
教 授	菊池 崇志	プラズマ力学研究室			
Professor	KIKUCHI, Takashi	Plasma Dynamics Laboratory			
教 授	江 偉華 **	パルスパワー研究室			
Professor	JIANG, Weihua	Pulsed Power Laboratory			
教 授	末松 久幸 ****	高出力レーザー開発・応用工学研究室			
Professor	SUEMATSU, Hisayuki	High Power Laser Development and Application Engineering Laboratory			
准教授	須貝 太一	パルスパワー研究室			
Associate Professor	SUGAI, Taichi	Pulsed Power Laboratory			
助教	ドウ ティ マイ ズン	高出力レーザー開発・応用工学研究室			
Assistant Professor	DO THI MAI DUNG	High Power Laser Development and Application Engineering Laboratory			

7. システム安全工学分野 System Safety Engineering

(1)安全認証講座 Safety-Certification group

職 名 Title	氏 名 Name	研 究 室 等 Laboratory	
教 授	木村 哲也	レスキュー工学研究室	
Professor	KIMURA, Tetsuya	Rescue Engineering Laboratory	
教 授	三好 孝典 ****	協働ロボット研究室	
Professor	MIYOSHI, Takanori	Collaborative Robot Laboratory	
准教授	北條 理恵子 ***	産業安全行動分析学研究室	
Associate Professor	HOJO, Rieko	Behavior-based Safety Laboratory	
助 教	高橋 憲吾	レスキュー工学研究室	
Assistant Professor	TAKAHASHI, Kengo	Rescue Engineering Laboratory	

(2)安全規格·設計講座 Safety Standard and Design group

· / / / - / / - / / / / / / / / / / / /	7 881		
職 名 Title	氏 名 Name	研 究 室 等 Laboratory	
教 授	阿部 雅二朗 *	機械 - 環境系設計工学研究室	
Professor	ABE, Masajiro	Machine-Environment System Design Engineering Laboratory	
教 授	鈴木 正太郎	反応性流体工学研究室	
Professor	SUZUKI, Masataro	Laboratory of Reactive Fluid Engineering	
准教授	大塚 雄市	構造安全性評価研究室	
Associate Professor	OTSUKA, Yuichi	Structural Integrity Assessment	

(3)安全管理講座 Safety Management group

職 名 Title	氏名 Name	研究室等 Laboratory		
教 授	山形 浩史 ***	システム安全工学研究室		
Professor	YAMAGATA, Hiroshi	System Safety Engineering Laboratory		
准教授	張坤	安全データマネジメント研究室		
Associate Professor	ZHANG, Kun	Safety data management Laboratory		
准教授	眞砂 英樹	フィールドシステムマネジメント研究室		
Associate Professor	MASAGO, Hideki	Field System Management Laboratory		

大学院工学研究科5年一貫制博士課程 Graduate School of Engineering

(5-year Integrated Doctoral Program)

技術科学イノベーション専攻 Science of Technology Innovation

(1)エネルギー技学講座 Gigaku Energy group

職 名 Title	氏 名 Name	研究室等 Laboratory		
教授	伊東淳一	パワーエレクトロニクス研究室		
Professor	ITOH, Jun-ichi	Power Electronics Laboratory		
教 授	佐々木 徹	プラズマ力学研究室		
Associate Professor	SASAKI, Toru	Plasma Dynamics Laboratory		
教 授	山田 昇	エネルギー工学研究室		
Professor	YAMADA, Noboru	Energy Engineering Laboratory		
准教授	南部 功夫	脳情報工学研究室		
Associate Professor	NAMBU, Isao	Neural Engineering Laboratory		

(2) 環境技学講座 Gigaku Environment group

職 名 Title	氏 名 Name	研 宪 室 等 Laboratory	
教 授	小笠原 渉	発酵科学研究室	
Professor	OGASAWARA, Wataru	HAKKO Science Laboratory	
教 授	姫野 修司	資源エネルギー循環研究室	
Professor	HIMENO, Shuji	Laboratory of Resource and Energy Cycles	
教 授	山口 隆司	水圏土壌環境研究室	
Professor	YAMAGUCHI, Takashi	Aqua and Soil Environmental Laboratory	
准教授	牧 慎也	生命機能利用工学研究室	
Associate Professor	MAKI, Shinya	Laboratory of Biological Function Applied Engineering	
准教授	山﨑 渉	航空流体工学研究室	
Associate Professor	YAMAZAKI, Wataru	Computational Fluid Dynamics Laboratory	
助 教	中村 彰宏	発酵科学研究室	
Assistant Professor	NAKAMURA, Akihiro	HAKKO Science Laboratory	
助教	ヌル アデリン ビンティ アブ バカル	機械学習理論研究室	
Assistant Professor	NUR ADLIN BINTI ABU BAKAR	Theory of Machine Learning Laboratory	

(3)材料技学講座 Gigaku Materials group

	<i>U</i> 1		
職 名 Title	氏 名 Name	研 究 室 等 Laboratory	
教 授	田中 諭	セラミックス構造設計研究室	
Professor	TANAKA, Satoshi	Ceramic Material Design Laboratory	
教 授	中山 忠親	ナノ秒・ナノテク研究室	
Professor	NAKAYAMA, Tadachika	Nano Second and Nanometre Technology Laboratory	
准教授	大沼 清	システム幹細胞工学研究室	
Associate Professor	OHNUMA, Kiyoshi	Stem Cell Technology Laboratory	

大学院工学研究科修士課程 専攻・分野・講座名 Research Areas of Master's Program

7 7 7 170 — 7	机九件修工体性 寸久 刀	F 時生也 Research Areas of Master's Frogram
専攻・	分野名 Fields of Study	講座名 Research Areas
		機械情報・制御工学講座
		Information and Control Engineering
		設計・生産工学講座
		Design and Production Engineering
	│ │機械工学分野	熱・流体工学講座
	Mechanical Engineering	Heat and Fluids Engineering
	Wiedmanieur Engineering	材料システム工学講座
		Materials Science and Engineering
		創未来テクノロジー講座
		Innovative Interdisciplinary Mechanical Engineering
		電気エネルギー・制御工学講座
		Electric Energy and Control Engineering
	電気電子情報工学分野	電子デバイス・光波制御工学講座
	Electrical, Electronics and	Electronic Devices and Light Wave Control Engineering
	Information Engineering	情報通信制御工学講座
		Information, Telecommunication and Control
		応用情報学講座
		Applied Informatics
	情報・経営システム工学分野	マネジメントシステム講座
	Information and Management	
	Systems Engineering	Management System データサイエンス講座
		アータリイエン入画座 Data Science
		資源活用工学講座
工学専攻		
	物質生物工学分野	Resource Utilization Engineering 材料創成工学講座
Engineering	Materials Science and	
	Bioengineering	Materials Creation Engineering 生体環境工学講座
		Biological and Environmental Engineering 社会基盤デザイン講座
		Infrastructure Design 社会基盤マネジメント講座
	環境社会基盤工学分野	社会基盤マイングンド講座 Infrastructure Management
	Civil and Environmental	防災システム講座
	Engineering	Disaster Prevention Systems
		環境マネジメント講座
		展現・イングント 神座 Environment Management
		原子力安全講座
		Nuclear Safety Engineering
	量子・原子力統合工学分野	原子力技術講座
	型 1 ・ 版 1 万帆 日エ子 カ ffy Nuclear Technology	Nuclear System Engineering
	Nuclear Technology	量子·放射線講座
		Advanced Radiation Engineering
		安全規格·設計講座
		安主规格·政計酶座 Safety Standard and Design
		安全管理講座
	システム安全工学分野	
	System Safety Engineering	Safety Management 安全認証講座
		Safety-Certification

大学院工学研究科5年一貫制博士課程 専攻・講座名

Research Areas of 5-year Integrated Doctoral Program

課 程 Course	専 攻 名 Fields of Study	講 座 名 Research Areas	
5年一貫制博士課程 5-year Integrated Doctoral Program	技術科学イノベーション 専攻 Science of Technology Innovation	エネルギー技学講座	
		GIGAKU Energy	
		環境技学講座	
		GIGAKU Environmental	
		材料技学講座	
		GIGAKU Materials	



〒940-2188 新潟県長岡市上富岡町 1603-1 長岡技術科学大学 入試課 TEL 0258-47-9271・9273 Fax 0258-47-9070

Division of Admissions
Nagaoka University of Technology
1603-1 Kamitomioka, Nagaoka,
Niigata 940-2188, JAPAN
TEL +81-258-47-9271, 9273
FAX +81-258-47-9070
E-mail:nyushigroup@jcom.nagaokaut.ac.jp
URL: https://www.nagaokaut.ac.jp