



GRADUATE SCHOOL OF ENGINEERING SCIENCE AKITA UNIVERSITY 2025

Greetings

Regional revitalization through strengthening scientific education. Educating and preparing students to deliver technological innovation in the global community.

Global warming is a problem of global scale, and we are required to solve it through the progress of science and technology and to build a sustainable society. In Japan as well, the 2050 Carbon Neutral Declaration, which aims to reduce greenhouse gas emissions to zero for society as a whole by 2050, has been announced, and the goal is to aim for a decarbonized society. In order to achieve these goals, existing specialized approaches alone are not enough, and it is necessary to establish a new technology system with deep expertise and a broad perspective on other fields. Furthermore, in recent years, there have been remarkable advances in computer-based technologies such as big data processing, data-driven science, automation, and artificial intelligence. We need people who can find new breakthroughs by integrating existing specialized fields with these new digital technologies.

The Graduate School of Science and Engineering, Akita University develops education and research programs to develop human resources with engineering design skills that create new value by integrating multiple fields based on a solid foundation in each field. We have master's courses available in each of our five departments: life science, materials science, mathematical science and electrical-electronic-computer engineering, systems design engineering, and sustainable engineering, which is jointly managed with Akita Prefectural University. Our graduate students are required to take not only common-course and specialized classes but also minor-specialized classes through which they efficiently acquire wide-ranging technical knowledge and skills. Finally, doctoral degrees are the responsibility of the Department of Integrated Engineering Science. Its students, whilst naturally focusing on very specialized areas, are also trained to have broad perspectives in addition to comprehensive engineering skills, so that they can play a leading role to build a sustainable society.



JIKEI Mitsutoshi Dean of Graduate school of Engineering Science

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Graduate School Organization

The Graduate School of Engineering Science consists of master's degree program and doctoral degree program.

[Master's Degree Program]

The master's degree program consists of 5 departments as the below. The Department of Cooperative Major in Sustainable Engineering is the joint master's degree program between Akita University and Akita Prefectural University.

Department	Course
Life Science	Life Science
Materials Science	Applied Chemistry
Materials Science	Materials Science and Engineering
Mathematical Science and Electrical- Electronic-	Mathematical Science
	Electrical and Electronic Engineering
Computer Engineering	Human-Centered Computing
Quaterna Dasiara Engineering	Mechanical Engineering
Systems Design Engineering	Civil and Environmental Engineering
Cooperative Major in Sustainable Engineering	Electromobility Social Environment System

[Doctral Degree Program]

The doctoral degree program has one department which includes all research field of the master's degree above.

Department	Field
	Life Science
	Materials Science
Integrated Engineering Science	Mathematical Science and Electrical- Electronic-Computer
	Engineering
	Systems Design Engineering

The doctoral degree program offers courses in English for international students.

Cooperative master's degree program with the Graduate School of Medicine

Graduate School of Advanced Healthcare Engineering

Life Science Course

Life Science Course consists of the fields of biology and chemistry, each of which conducts scientific research on the problems of life science from a different point of view. Graduate students in Life Science Course specialize in biology or chemistry and acquire special knowledge and skills by performing laboratory work. The students are also broadened their outlook and strengthen their mind of cooperation by taking classes of both fields and discussing scientific problems with students and teachers of different laboratories. Life Science Course trains skillful scientific researchers and engineers.



https://www.riko.akita-u.ac.jp/en/intro/courses/life_sciences.html

Chemistry and Chemical Biology

Biomolecular Chemistry, field covers the areas including structural biology, protein chemistry, analytical chemistry, supramolecular chemistry, organic chemistry, electrochemistry, and computational chemistry.

Name	Title	Research Theme
Fujiwara Kenshu	Prof.	Total synthesis of bioactive natural products and development of synthetic, biofunctional molecules
Odaka Masafumi	Prof.	Structural and functional studies on medically and industrially important proteins
Amatatsu Yoshiaki *This associate professor will retire by the mandatory retirement regula- tion in March 2025.	Associate Prof.	Computational design of photofunctional molecular devices
Kondo Yoshihiko	Associate Prof.	Supramolecular chemistry based on macrocyclic compounds
Matsumura Hirotoshi	Associate Prof.	Studies on structure-function relationships within proteins for understanding mechanism of action of drugs

Molecular Cell Biology

Molecular Cell Biology field covers areas such as biochemistry, molecular biology, cell biology, and disease biology.

Name	Title	Research Theme
Hikida Masaki	Prof.	Study for regulatory mechanism of memory B cell activation
Kubota Hiroshi	Prof.	Study for neurodegenerative disease and protein aggregtion (as an educational theme)
Yamazaki Masakazu	Prof.	Molecular mechanisms of planar cell polarity
Yamagata Nobuhiro	Associate Prof.	Neuroscience of likes and dislikes
Fujita Kaori	Lecturer	Biological functions of p53 and its isoforms in cellular senescence and aging-associated diseases

Applied Chemistry Course

The Applied Chemistry Course curriculum provides the knowledge and skills necessary to use atomic- and molecular-scale material design and synthesis to provide creative manufacturing solutions for society. After finishing our course, graduates will be able to contribute to the development of environmentally friendly manufacturing and advanced chemical technologies, such as the development of new functional materials, the effective use of chemical energy in recycling, and the advanced use of bio-derived functionality in products.



https://www.riko.akita-u.ac.jp/en/intro/courses/applied_chemistry.html

Chemistry of Organic Materials

Synthesis and Properties of Organic Functional Materials

Name	Title	Research Theme
Jikei Mitsutoshi	Prof.	Synthesis and properties of functional macromolecules
Matsumoto Kazuya	Associate Prof.	Synthesis and applications of functionalized organic materials
Yamada Manabu	Associate Prof.	Development of new molecules for separation of hard-to-separate organic compounds and precious metals

Applied Physical Chemistry

Design and Application of Environmental Advanced Materials from the Viewpoint of Physical Chemistry

Name	Title	Research Theme
Murakami Kenji	Prof.	Development of carbon resources conversion catalyst and synthesis of new inorganic-organic composites
Inoue Yukihiko	Lecturer	Chemistry about organic reactions and functional polymers
Ayano Nakamura	Lecturer	Development of functional materials with stimuli-responsive polymer

Inorganic Materials Chemistry

Synthesis and Characterization of Inorganic Advanced Materials such as Porous Material, Catalytic Materials and Ceramics

Name	Title	Research Theme
Kato Sumio	Prof.	Studies on synthesis of complex metal oxides and application to materials for environmental purification
Ogasawara Masataka	Associate Prof.	Studies on preparation of functionalized porous material and inorganic-organic composite
Kanji Saito	Lecturer	Materials design using a low-dimensional nanospace of inorganic solids

Energy Chemical Engineering

Process Design of Heterogeneous Reaction for Efficient Utilization of Energy and Resources

Name	Title	Research Theme
Okawa Hirokazu	Prof.	Application of sonochemical reaction for the synthesis of battery materials and environmental purification materials
Kato Takahiro	Lecturer	Effective utilization of energy resources and design of functional materials

Bioprocess Engineering

Bioprocess design and development by integrating biological and biochemical technologies, and creation and application of new functional biomaterials

Materials Science and Engineering Course

Our master's course goal is to develop the skills in our students needed to create new materials and develop new functional properties of materials. The course is based on fundamental physics and chemistry, and focusses on metals, semiconductors and ceramics. Our course curriculum gives students the opportunity to learn a broad range of advanced knowledge and skills efficiently on the microscopic nature of material properties and structures, as well as computer simulation techniques for predicting their macroscopic properties. After completing the course, students will be professionally able to contribute to the development of next generation materials that will contribute to, and be in harmony with human society.



https://www.riko.akita-u.ac.jp/en/intro/courses/materials_science.html

Material Creation Group

The physical and chemical properties of metallic materials vary greatly depending on their constituent atoms and structure, as well as manufacturing methods and heat treatment. The aim of this division is to investigate the mechanisms behind the physical and chemical properties of various materials based on microstructural analysis and simulation at the nanoscale and micron scale, and to develop new materials with new or improved functions.

Name	Title	Research Theme
Saito Kaichi	Prof.	Microstructure control of alloys and development of new materials by advanced electron microscopy
Hayashi Shigeo	Prof.	Study on the structural and functional control of environmental ceramic materials
Natsume Yukinobu	Prof.	Development of numerical simulation model to predict the solidification structures for alloys
So Yeong-Gi	Associate Prof.	The atomic structure and physical properties of metals and alloys
Hasegawa Takashi	Associate Prof.	Development of advanced magnetic materials by sputtering method and nanotechnology
Kawano Naoki	Associate Prof.	Development of phosphor materials for radiation detection
Tsujiuchi Yutaka	Lecturer	Development of molecular electronics device using organic molecules and semiconductor

Material Function Group

The development of functional materials which efficiently use resources and improve energy efficiency needs detailed investigation of the physical and chemical properties of materials. This division focuses on education and research aimed at the creation of innovative and practical materials production technologies, with a particular focus on materials that can withstand harsh operating conditions and increase the life and reliability of industrial products, such as high-strength, high-durability materials and high-performance electrochemical materials.

Name	Title	Research Theme
Ohguchi Ken-ichi	Prof.	Numerical and experimental study on constitutive modeling for materials
Yoshimura Satoru	Prof.	Development of high functional multiferroic thin films for novel magnetic devices driven by electric field
Nino Akihiro	Associate Prof.	Development of structural ceramics with superior mechanical properties
Fukumoto Michihisa (Research Center of Advance Materials for Breakthrough Technology)	Associate Prof.	Research on high temperature oxidation behavior of heat resistant material and development of oxidation resistant surface
Goto Ikuzo	Associate Prof.	Research on higher-performance castings
Takahashi Hiroki	Associate Prof.	Development of electrode materials for fuel cells and electrolytic process such as CO ₂ reduction and oxygen evolution reaction
Fukuchi Kohei	Lecturer	Study on the development of metal matrix composites and evaluation of the material properties

Mathematical Science Course

Our focus is education and research on advanced mathematical concepts and structures in classical domains, such as algebra, geometry, and analysis, as well as elucidation and exploration of mathematical structures of various physical phenomena.

Along with the systematic nature of the curriculum, the main emphasis is on the interplay with adjacent fields such as computer science, and the acquisition of logical thinking ability, problem-modeling and problem-solving skills.



https://www.riko.akita-u.ac.jp/en/intro/courses/mathematical_science.html

Algebra, Discrete Mathematics and Computer Science

We study algebraic structures such as groups, rings, and fields, the combinatorics of discrete structures such as words and graphs, and theoretical computer science topics such as algorithms, computational complexity, and mathematical logic.

Name	Title	Research Theme
Yamamura Akihiro	Prof.	Combinatorial group and semigroup theory, combinatorial designs, cryptology and information security
Fazekas Szilard Zsolt	Associate Prof.	New computational models, automata theory, combinatorics of strings and languages

Geometry, Topology and Analysis

Our group focuses on the rich world of continuously changing objects. We study the shape and additional structure of curves, curved surfaces, and their higher-dimensional versions (geometric field). We are also interested in phenomena created by points that move in various patterns starting from various places (analytical field).

Name	Title	Research Theme
Kawakami Hajime *This professor will retire by the mandatory retirement regulation in March 2026.	Prof.	Mathematical study of inverse problems
Kobayashi Mahito	Associate Prof.	Theory and application of shape analysis by mappings.
Nakae Yasuharu	Lecturer	Low-dimensional topology, especially foliation theory in 3-dimensional manifolds

Theoretical Physics

Research subjects of theoretical physics are quite diverse, covering topics from elementary particles and nuclei to various groups of materials to the universe. Students can learn how to construct mathematical models that extract and abstract the characteristics of actual physical systems and the phenomena they exhibit, as well as mathematical and numerical methods for analyzing those models.

Name	Title	Research Theme
Onoda Masaru	Prof.	Theoretical study of geometric phase effects in quantum wave propagation
Tanuma Yasunari	Associate Prof.	Theoretical study of unconventional superconductors in non-uniform systems
Kuno Yoshihito	Lecturer	Theoretical study of quantum information scrambling, quantum many-body physics, and quantum simulation

Electrical and Electronic Engineering Course

Electrical and electronic engineering has greatly contributed to the realization of a convenient and rich modern society. Electrical and electronic engineering has become important in realizing technologically advanced and sustainable society. The electrical and electronic engineering course covers a wide range of disciplines such as electrical energy, electrical equipment, advanced electronic devices, measurement and signal analysis. The course will cultivate human resources who have acquired creative thinking and flexible application abilities, by having them actively engage in research of a special field or technologically integrated fields.



https://www.riko.akita-u.ac.jp/en/intro/courses/electronic_engineering.html

Electric Energy and Electrification Engineering

Education and researches on generation, conversion and storage of electric energy, and engineering design oriented to human and environment, contributing a sustainable society

Name	Title	Research Theme
Kumagai Seiji	Prof.	Study on energy devices such as batteries and the related materials, and their introduction to power systems and society
Kabir Mahmudul	Associate Prof.	Study on non-linear electric materials and their application to environmental purification
Takahashi Shotaro	Lecturer	Electromagnetic noise reduction, size reduction and performance improvement of power converters

Electronic Device and Measurement Engineering

Education and researches on developments of electronic devices including magnetic, optical, photoelectric conversion and high-frequency electromagnetic devices, and advancements of sensing, signal processing, information analysis and diagnosis technologies, intended for high speed and large capacity telecommunication and aging society

Name	Title	Research Theme
Saito Hitoshi *This professor will retire by the mandatory retirement regulation in March 2026.	Prof.	Study on magnetic measuring techniques on nano-meter scale and their application to advanced magnetic device assesment
Yamaguchi Rumiko	Prof.	Study on measurement of liquid crystal physical property, liquid crystal molecular alignment technique, and electro-optical characteristic of liquid crystal devices
Kawamura Marenori	Prof.	Study on fabrication of novel liquid crystal devices and their applications
Kikuchi Nobuaki	Prof.	Study on Analysis and Development of Magnetic Functionalities
Sato Yuichi	Associate Prof.	Study on semiconductor thin f ilm and photoelectric conversion devices
Tanaka Motoshi	Associate Prof.	Study on analyis of acoustic signals and biological information related to human activity and its application
Fukuda Makoto	Lecturer	Study on measurement techniques of non-linear ultrasonic wave and their applications
Yodokawa Shinichi	Lecturer	Study on electromagnetic wave propagation in millimeter and submillimeter
Hosoki Ai	Lecturer	Study on chemical sensors using fiber optics and their applications

Human-Centered Computing Course

Human-Centered Computing Course offers education and research to solve regional community issues and create new value, through the development of human-centered information processing systems. Students learn advanced and state-of-the-art applied technologies based on computer science.

The main fields and targets of the curriculum are as follows.

- 1. Computer science (CS) and information technology (IT)
- 2. Modeling and analysis methods for human, society, culture, and nature
- 3. Exploring a good design for IT environment, with a focus on humans
- 4. Ability to conduct research and development having high creativity

https://www.riko.akita-u.ac.jp/en/intro/courses/human_information.html



Sensing and image processing technologies for building human-centered information systems

Aiming to realize a human-centered information society, education and research is conducted in the field of human sensing focusing on analysis of lip movement and facial expression, remote sensing (Satellites and UAV), image processing, image information applications, visual recognition, affective engineering, behavior analysis, and computer security.

Name	Title	Research Theme
Kageyama Yoichi	Prof.	Remote sensing, human sensing, image processing and image information applications
Ishizawa Chikako	Prof. (Concurrent post)	Human error prevention technologies and utilization of color information
Yokoyama Hiroshi	Associate Prof. (Center for Information Technology and Management)	High-reliable design method of computer systems and application of network systems
Shirai Hikaru	Lecturer (Concurrent post)	Analysis algorithms for remote sensing and their applications

Human support technologies to maintain health and transfer skills

Education and research is conducted in the field of medical and welfare engineering, such as frailty prevention and hyperthermia for the elderly to maintain health and QOL, skill learning support technology using xR (VR, AR, MR, etc.) and MoCap (Motion Capture), welfare information engineering to compensate for disability.

Name	Title	Research Theme
Mitobe Kazutaka	Prof.	Magnetic hyperthermia, human computer interaction, VR/MR training and testing.
Fujiwara Katsuya	Prof. (Concurrent post)	VR simulators for medical training, assessment systems for cognitive function, and remote collaboration systems.
Nakajima Sawako	Lecturer	Accessible technology and sensory substitution system.

Spatial informatics for human-centered real-world information services

Research in this laboratory focuses on design, modelling, software development and evaluation of innovative human-centered real-world information services based on spatial data fusion and analysis using GPS, camera, motion and compass sensors on smartphones. Examples of the services are human-centered mobile mapping for supporting tourists, real world e-learning, and indoor AR (augmented reality) navigations for Mineral Industry Museum of Akita University.

Name	Title	Research Theme
Arikawa Masatoshi	Prof.	Design and analysis on real world information environments for supporting human activity

Network modeling and optimization

(1) Network modeling and optimization:

- \cdot Traffic engineering using linear and nonlinear metrics.
- \cdot New route determination approach considering graph property.

(2) IoT network application systems:

 \cdot Service proposals and its design using flow-base programming.

Name	Title	Research Theme
Hashimoto Masashi *This professor will retire by the mandatory retirement regulation in March 2025.	Associate Prof.	Traffic engineering and network optimization, design of IoT network systems and its applications

Mechanical Engineering Course

Mechanical engineering is based on disciplines including mechanics of materials, thermodynamics, fluid mechanics, mechanics and control engineering. The Mechanical Engineering course provides education and research to deepen the specialist knowledge acquired at undergraduate level and to acquire the ability to apply it. The course aims to nurture human resources with problem-solving and communication skills who can contribute to the formation of a sustainable society in which humans, the environment and machines are in harmony with each other from a global perspective.



https://www.riko.akita-u.ac.jp/en/intro/courses/mechanical_engineering.html

Aerospace System

Next-Generation Efficient Transportation / Mobility System

Name	Title	Research Theme
Muraoka Mikio *This professor will retire by the mandatory retirement regulation in March 2026.	Prof.	Nanotechnology for structural and functional materials
Yamaguchi Makoto	Associate Prof.	Raman spectroscopic characterization of subsurface structure
Zhao Xu	Associate Prof.	Morphology control of nanostructures and creation / reliability evaluation of functional materials

Medical System Engineering

Development of advanced medical and healthcare devices for supporting all generation's peoples living an aging society

Name	Title	Research Theme
Naganawa Akihiro	Prof.	Development of medical devices and new actuators, Study on control method of mechanical systems
Iwami Takehiro	Prof.	Reconstruction of motor function and medical engineering
Sasaki Yoshihiro	Associate Prof.	Development of fluid control technology making full use of the advantages of hydraulic systems and pneu- matic systems
Yamamoto Yoshiyuki	Associate Prof.	Study on dynamics and medical applications of functional magnetic nanomaterials
Takahashi Mamoru	Associate Prof.	Study on evaluation of synthesized films and synthesis of films for surface modification of mechanical mate- rials and biomaterials
Seki Takeshi	Lecturer	Develoment of medical/ industrial devices using optical systems and machine parts.

Environmentally Friendly System

Renewable energy and the system construction

Name	Title	Research Theme
Okuyama Eiki *This professor will retire by the mandatory retirement regulation in March 2026.	Prof.	Nano-metrology and ultra-precision mechanism design
Miyano Yasuyuki	Associate Prof.	Research on joining and welding processing for structural materials / Elucidation of the mechanism of bio-corrosion of metals
Komatsu Yoshimi	Associate Prof.	Heat and mass transfer with phase change
Sugiyama Wataru	Lecturer	Small wind turbine, rarefied gas flow

Civil and Environmental Engineering Course

Civil and Environmental Engineering Course carries out education and research to provide professional knowledge on structural mechanics, construction materials, soil mechanics, hydraulics and transport system planning, to improve problem solving ability and applicability of skills based on the knowledge, and to cultivate communication ability for co-operative problem solving, as a goal to contribute to development of social infrastructure which is resilient in natural disasters, comfortable, and sustainable.



https://www.riko.akita-u.ac.jp/en/intro/courses/civil_and_environmental.html

Structural Engineering

Study on new type structures such as easily assembled timber bridges utilizing characteristics of timber materials, Origami structures utilizing those folding and development characteristics, and so on

Name	Title	Research Theme
Gotou Humihiko	Prof.	Study on performance evaluation of structures using 3D structural analysis simulation

Hydraulics and Hydraulic Engineering

Education and research are as follows.Study on disaster prevention system for a tsunami and floods using observation and numerical calculation. Study on water environment system for estuary using the topographical survey and numerical simulation.

Name	Title	Research Theme
Watanabe Kazuya	Associate Prof.	Study on disaster prevention system for tsunami and floods

Geotechnical Engineering

Study about methods for evaluating soil properties and estimating status of grounds

Name	Title	Research Theme
Ogino Toshihiro	Associate Prof.	Research in strength and deformation characteristics of unusual soils

Urban and Traffic Plannning

We are conducting education and research on cities, roads, and public transportation to ensure that all people, including the elderly and disabled, can live comfortably and safely. We also aim to develop and operate comprehensive urban and transportation systems that are in harmony with the natural environment.

Name	Title	Research Theme	
Hamaoka Hidekatsu	Prof.	reation of a road environment that can be used safely and securely	
Hino Satoru	Associate Prof.	Infrastructure planning for sustainable city and public transportation in local cities	

Concrete Engineering

Study on properties of concrete and other construction materials, development of environmental conscious concrete and durability of concrete structures

Name	Title	Research Theme	
Tokushige Hidenobu	Prof.	Deterioration mechanism such as frost damage of concrete and performance of environmental conscious concrete	

Cooperative Major in Sustainable Engineering

https://www.sustainable.riko.akita-u.ac.jp/sustainable/en



Electromobility Course



Social environment system Course

The Cooperative Major in Sustainable Engineering is a joint graduate school of Akita University and Akita Prefectural University which is started from April 2022. The course focuses on eduation and research in the filed of sustainable engineering to contribute to the sustainable development of the region and to contribute to reduction of environmental load and the promotion of industry in Japan and the region by acquiring advanced expertise in sustainable engineer.

Electromobility Course

The electrification of power systems utilizing internal-combustion engine for aircrafts, automobiles, railways and ships reduces CO₂ emissions of transportation. In the course, the education and research on motorization of mobility are given in cooperation with the 'Electrification System Joint Research Center', and overseas universities and research institutes.

Name	Title	Research Theme
Tajima Katsubumi	Prof.	Coupled analysis of circuit - magnetic - motion - heat in electrical machinery and apparatus
Adachi Takahiro	Prof.	Thermal management for aircraft a rotating cone
Akinaga Takeshi	Associate Prof.	Conceptual aerofoil design based on hybrid laminar flow control / A restorative approach to agriculture
Miura Takeshi	Associate Prof.	Study on automatic control and system optimization
Yoshida Yukihiro	Associate Prof.	Study on analysis and design of permanent magnet motors
Kinoshita Yukinori	Lecturer	Nano-level characterization of ultra low-power electronic/magnetic devices
Hirayama Hiroshi	Lecturer	System design of spacecraft and electric aircraft
Takamure Kotaro	Lecturer	Analysis of Heat Exhausting Characteristics of High Performance Motor used in Aircraft Electrification

Social environment system Course

The education and research in this course focus on the following,

• technologies of efficient utilization of renewable energy

• environmental-friendly designs through life cycle of product including resource exploitation, production, transportation, use, disposal and recycling.

Name	Title	Research Theme
Mishima Nozomu	Prof.	Study on evaluation methods of product eco-effieicncies/resource efficiencies
Fukuyama Mayuko	Associate Prof.	Environmental studies on chemistry and Eearth system
Takahashi Hiroshi	Associate Prof.	Development of new chemical processes, and its visualization of operating data via IoT techniques
Sato Yoshiyuki	Associate Prof.	Research on materials design by computer
Sugawara Toru	Associate Prof.	Studies on high-temperature properties of molten oxides and their application
Furubayashi Takaaki	Associate Prof.	Design and analysis of sustainable energy systems

Graduate School of Advanced Healthcare Engineering

https://www.akita-u.ac.jp/honbu/healthcare/heal_en.html

'Graduate School of Advanced Healthcare Engineering' is a new graduate school established cooperatively with Graduate School of Medicine and Graduate School of Engineering Science of Akita University to integrate each field.

We will develop human resources who will support an aging society by conducting education and research that take advantages of the strength of both parties.

Inspection and Diagnostic Field

Division of Engineering

Name	Title	Research Theme
Mitobe Kazutaka	Prof.	Education and research on examination / diagnosis technology based on behavior in xR environment and examination / treatment technology applying electromagnetism.
Kageyama Yoichi	Prof.	Examinations and diagnostic support, and estiomation of emotional / physical condi- tion change using various sensing, image processing, and machine learning.
Fujiwara Katsuya	Prof.	Mild cognitive impairment test by finger dexterity assessment, and VR simulator for training surgery.
Tanaka Motoshi	Associate Prof.	Study on analysis of biological information, such as EEG and ECG, and acoustic sig- nals related to human activity, and its application for examination and diagnosis.
Nakajima Sawako	Lecturer	Welfare technologies for elderly and sensory impaired people to enjoy media content using speech synthesis and natural language processing.

Division of Medicine

Name	Title	Affiliation	
Bando Yoshio	Prof.	Graduate School of Medicine Doctoral Course in Medicine Bioregulatory Medicine Department of Anatomy	
Hozumi Yasukazu	Prof.	Graduate School of Medicine Doctoral Course in Medicine Bioregulatory Medicine Department of Cell Biology and Morphology	
Ishii Satoshi	Prof.	Graduate School of Medicine Doctoral Course in Medicine Bioregulatory Medicine Department of Immunology	
Kono Michihiro	Prof.	Graduate School of Medicine Doctoral Course in Medicine Organ Function-Oriented Medicine Department of Dermatology and Plastic Surgery	
Mori Naoko	Prof.	Graduate School of Medicine Doctoral Course in Medicine Bioregulatory Medicine Department of Radiology	
Nomura Kyoko	Prof.	Graduate School of Medicine Doctoral Course in Medicine Public Health and Environmental Medicine Department of Environmental health science and Public Health	
Hasegawa Hitoshi	Prof.	Graduate School of Medicine Doctoral Course in Medicine Public Health and Environmental Medicine Department of Medical Education	
Ueki Shigeharu	Prof.	Graduate School of Medicine Doctoral Course in Medicine Bioregulatory Medicine Department of General Medical Practice and Laboratory Diagnostic Medicine	
Otsubo Tetsuya	Prof.	Graduate School of Medicine Doctoral Course in Medicine Public Health and Environmental Medicine Department of Medical Informatics	

Exercise and Treatment Field

Division of Engineering

Name	Title	Research Theme
Naganawa Akihiro	Prof.	Education and research on new healthcare devices and treatment support devices using mechatronics technology.
Iwami Takehiro	Prof.	Research and Education on medical engineering and robotics for the reconstruction of motor function
Sasaki Yoshihiro	Associate Prof.	Development of functional devices using fluid actuators and research on power assist systems.
Yamamoto Yoshiyuki	Associate Prof.	Study on dynamic properties of magnetic fluids under an alternating magnetic field and its application for non-invasive treatment
Takahashi Mamoru	Associate Prof.	Study on evaluation of synthesized films and synthesis of films for surface modification of biomaterials
Seki Takeshi	Lecturer	Research of the temperature estimation method of laser irradiated area and the laser power control method for Photothermal Therapy.



Division of Medicine

Name	Title	Affiliation	
Shibata Hiroyuki	Prof.	Graduate School of Medicine Doctoral Course in Medicine Oncoregulatory Medicine Department of Clinical Oncology	
Nakayama Katutoshi	Prof.	Graduate School of Medicine Doctoral Course in Medicine Organ Function-Oriented Medicine Department of Respiratory Medicine	
Watanabe Hiroyuki	Prof.	Graduate School of Medicine Doctoral Course in Medicine Organ Function-Oriented Medicine Department of Cardiovascular Medicine	
Shimizu Hiroaki	Prof.	Graduate School of Medicine Doctoral Course in Medicine Organ Function-Oriented Medicine Department of Neurosurgery	
Miyakoshi Naohisa	Prof.	Graduate School of Medicine Doctoral Course in Medicine Organ Function-Oriented Medicine Department of Orthopedic Surgery	
Waki Hironori	Prof.	Graduate School of Medicine Doctoral Course in Medicine Bioregulatory Medicine Department of Metabolism and Endocrinology	
Andoh Hideaki	Prof.	Graduate School of Medicine Doctoral Course in Health Sciences Department of Clinical Nursing	
Wakasa Masahiko	Prof.	Graduate School of Medicine Doctoral Course in Health Sciences Department of Physical Therapy	
Kume Yu	Prof.	Graduate School of Medicine Doctoral Course in Health Sciences Department of Occupational Therapy	
Ota Hidetaka	Prof.	Advanced Research Center for Geriatric and Gerontology	
Fukuda Masayuki	Associate Prof.	Hospital Dentistry and Oral Surgery	
Nanjo Hiroshi	Associate Prof.	Hospital Division of Clinical Pathology	
Imai Kazuhiro	Associate Prof.	Graduate School of Medicine Doctoral Course in Medicine Oncoregulatory Medicine Department of Thoracis Surgery	
Kikuchi Yukiko	Lecturer	Graduate School of Medicine Doctoral Course in Health Sciences Department of Bacic Nursing	
Takagai Junko	Assistant Prof.	Graduate School of Medicine Doctoral Course in Health Sciences Department of Clinical Nursing	

Admission Fee & Tuition (estimate)

Graduate Student

Admission Fee: ¥282,000 / Annual Tuition: ¥535,800

*Note that these fees are the same for enrollment in both the master's and the doctoral degree programs. Enrollees who join the doctoral course immediately after completing a master's degree program at Akita University do not have to pay the doctoral course admission fee.

Graduate Student Support

Admission fee exemption and deferment

Graduate students who have excellent academic records and are facing financial difficulties, as well as those whose guarantors have died, and also graduate students and/or their guarantors who have been affected by a natural disaster within 1 year before admission, are eligible to apply for exemption and/ or deferment of the admission fee. Deferment or exemption (either full or half the admission fee) is decided after a review process. Applications are required to be made by students themselves prior to entering the university.

Tuition fee exemption and deferment

Graduate students who have excellent academic records and are facing financial difficulties, as well as those whose guarantors have died, and also graduate students and/or their guarantors who have been affected by a natural disaster, are eligible to apply for exemption and/or deferment of the tuition fee. Deferment or exemption (either full, half or one-third) is decided after a review process. Applications are required to be made by students themselves prior to university entry.

Scholarship * Scholarships are awarded competitively to students after a review process

a)International Student Scholarship Program

Program for self-funded international students (excluding exchange students) provided through Japan Student Services Organization (JASSO) b)Privately Financed Scholarships

Various scholarship programs for self-funded international students (excluding exchange students)

c)Graduate School of Engineering Science (Scholarship for international students)

The Graduate School of Engineering Science in Akita University provides return-free scholarships for self-funded international graduate students who need financial support. This scholarship is funded by the Hokko-kai.

ONumber of scholarships : about 5

©Recruitment period : March of the academic year prior to program entry

OScholarship amount : ¥20,000/month (planned)

Note that scholarship payments may be suspended immediately if it is found that the recipients have quit or have been dismissed from the school, or have been awarded a return-free scholarship of ¥48,000 or more per month from other bodies.

For details, see "Scholarship information" (<u>https://www.akita-u.ac.jp/honbu/global/en/abroad/inbound/scholarship.html</u>) on the Akita University website.

Accommodation

1. Dormitory House for International Students



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Boarding fee	Single occupancy rooms: ¥5,900/month *water, electricity and other living expenses not included
Maximum period of residence	1 year



It is available until graduation. Boarding fee is ¥20,000/month.



2. Private Apartments

Apartments are usually found through Akita University Co-op or local real estate agents. Rent varies depending on the area or age of the apartment but is generally approximately ¥30,000/ month for a 6-jo studio apartment with a kitchen and bathroom. (1-jo= 180cm×90cm)

*2 or 3 months' rent as a deposit and / or "key money" may be required up front for signing a rental contract.

For details, see "Information on housing for international students" (https://www.akita-u.ac.jp/honbu/global/en/abroad/inbound/apartment.html) on the Akita University website.

Japanese Government (MONBUKAGAKUSHO) Scholarship Program

Special programs conducted by Graduate School of Engineering Science/ Faculty of Engineering Science, Akita University have been assigned from April 2022 by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) to preferentially accept the recipients who have been awarded "MONBUKAGAKUSHO Scholarship".

International Education Program for Design for Environment

This program of 'international education program for design for Environment' aims for students to acquire multidisciplinary knowledge about design for environment including the ideas of decarbonization and green energy. It has been conducted in collaboration with the following 5 departments at Graduate School of Engineering Science, Akita University: Department of Life Science, Department of Material Science, Department of Mathematical Science and Electrical-Electronic-Computer Engineering, Department of System Design Engineering, and Department of Cooperative Major in Sustainable Engineering. First grade of students who belongs to these departments can participate this program in the addition to their regular Master program.

Target Students:First grade of Master's Course

3 of MEXT Scholarship recipients

3 of privately-financed foreign students

3 of Japanese students

Period of MEXT Scholarship

The scholarship period is effective for the standard total education period at the Department (two years).

Scholarship Allowance

144,000 yen per month will be supplied.

For details, see "Japanese Government (MONBUKAGAKUSHO) Scholarship Program" (https://www.riko.akita-u.ac.jp/en/examination/mext_scholarship.html) on the Akita University website.

Message from Senior

Ali Busuma

Department of Cooperative Major in Sustainable Engineering, Graduate School of Engineering Science



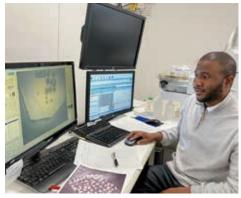
Don't give up!

After I graduated from my tertiary institution, I felt I needed further knowledge to specialize practically in my field of study, to know about the technical aspects in practical and not just theoretically. I have passion to explore geology, to nurture, and build my capacity as well as to enrich my knowledge in the field. Being interested in exploring, culture and diversity drove me to choose to study in Japan. My greatest motivation is seeing younger generations doing things that I might have not known is possible "like magic" and who yet still are outstanding and contributing to the growth of their country. My aim is to partake in post graduate study to carry out research in Geochemistry and petrology to streamline the knowledge acquired into my daily work as a geologist. My goal is to carry out a geochemical analysis of some formations in Nigeria and to seek results that will provide my country with a baseline for study, or continuity via renewable energy prospect.

My willingness to adapt and be flexible in meeting and learning new things gave me the courage to realize that there are so many things we can do with technology. I am an optimist that my research will serve as a case study for other people.

Coming to Akita university has been one of the best decisions, not only in achieving my dreams of acquiring a master's degree but the level of exposure and the people I meet. Everything about Akita is wonderful, the four distinctive weathers, food, culture, you name it.





Above) Photo with my son, Ahmad. Below) Conducting LA-ICP-MS analysis in the laboratory.

I am now dreaming bigger in the near future to be among a leading group of experts to establish a consortium between my country and the Japanese government, as Nigeria is now interested in exploring renewable energy sources.

I can't write anything about my study life in Japan (Akita university) without acknowledging my supervisor (Professor Fukuyama), with her support and guidance she made my life and study hectic free throughout the journey. Thank you, Sensei.

For the prospective student: Learning is a gradual process, Consistency and hard work is what keeps the motivation alive. Give it your best and you shall have no regrets.

Admission Information for international Students

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Graduate School of Engineering Science

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