SCHOOL of AGRICULTURE, KYUSHU UNIVERSITY

INTERNATIONAL UNDERGRADUATE PROGRAM

JAPAN

KYUSHU UNIVERSITY

744 Motooka Nishi-ku Fukuoka, 819-0395, Japan
https://www.kyushu-u.ac.jp/en/

International Undergraduate Program in English
School of Agriculture
E-mail: agri-iupe@agr.kyushu-u.ac.jp
https://www.agr.kyushu-u.ac.jp/english/courses/iup/

International Graduate Program in English
Graduate School of Bioresource and Bioenvironmental Science
E-mail: noggakus@jimu.kyushu-u.ac.jp
https://www.agr.kyushu-u.ac.jp/english/education/graduate/igp/

202101M2

SCHOOL of AGRICULTURE KYUSHU UNIVERSITY

International Undergraduate Program

New Agricultural Life Science
Environmental Science
International Agrifood System
Food Science

KYUSHU UNIVERSITY

FAST FACTS

#5 THE Japan University Rankings 2020

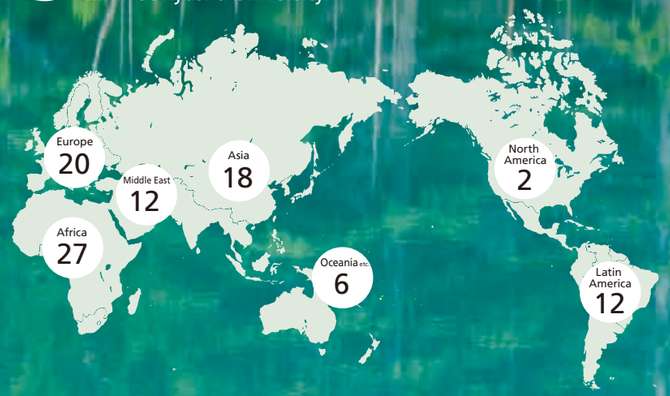
9:1 Student to Faculty Ratio

13% International Student Ratio
As of May 1, 2020

2,328

18,566
total students

97 countries and regions are represented at Kyushu University.



Faculty of Agriculture
Graduate School of Bioresource and Bioenvironmental Sciences
School of Agriculture

Dean
Miki NAKAO,
Prof. Dr.

Mission:

The mission of the Kyushu University Faculty of Agriculture is to combine the wisdom gained from studying life, water, soil, forests, and the Earth, convey to the next generation that these are humanity's assets, and develop a continuously evolving agronomy, with the aim of achieving better coexistence between people and the environment. We are working to contribute to the stable supply of food and other materials we need to live, the conservation of environments organisms need to survive, and the health and well-being of humanity, by providing education and conducting research on bioresources and the environment, engaging in international cooperation, and forming partnerships with communities.

CONTENTS

SCHOOL OF AGRICULTURE

RESEARCH OVERVIEW

4 Pillars of Research

New Agricultural Life Science

In response to rapid advancements in life sciences research, we have positioned new fields of agriculture and life sciences that aim to elucidate, utilize, and discover biofunctions as cutting-edge fundamental research, and are moving forward in these fields with full force.

Environmental science

With the aim of conserving the environment on a global scale, we are moving forward in the field of environmental sciences to build sustainable bioproduction and rural community systems that are in harmony with the environment, recycle-based, and preserve biodiversity.

International Agrifood System

We research global agrifood systems—which include bioresources, the utilization of organisms, environmental conservation, and the development of rural communities—with a focus on the potential production capacity of Monsoon Asia in order to expand food production capacity over the mid- to long-term.

Food science

Responding to societal needs for safe food, we conduct research on food functionality and safety, and research to facilitate building reliable food supply systems.

01

Insect Genome Science Laboratory

KUSAKABE Takahiro

Using the silkworm bioresource managed and maintained by Kyushu University, we are producing recombinant proteins from various organisms for the benefit of humankind.

Interview Article

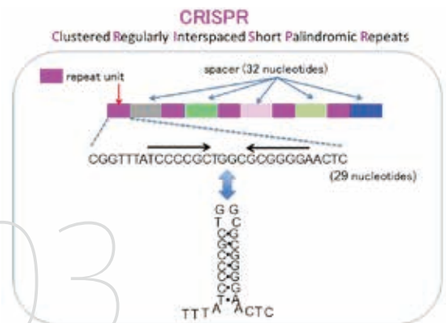
02

Laboratory of Food Chemical Biology

TACHIBANA Hirofumi

We research the bioregulatory actions of food and the mechanisms of those actions. We also provide proposals for food intake styles based on understanding functional interactions between food components.

Interview Video on Youtube



03

Laboratory of Biological Chemistry

ISHINO Yoshizumi

Archaea, living at high temperatures, are a goldmine for discovering DNA polymerases that are useful for PCR and CRISPR/Cas-related enzymes that are useful for genome editing. We are developing genetic engineering technology from research on maintenance of genome stability in Archaea.

Laboratory Website

04

Laboratory of Marine Biology

MATSUYAMA Michiya

We conduct research on the physiological mechanisms of propagation of marine fish and on production technology based on full-life-cycle aquaculture. We also use genome editing technology to develop species that are suited for aquaculture.

Laboratory Website

IUP

International Undergraduate Program

International Undergraduate Program in English (IUP) offers four undergraduate programs taught entirely in English, including Bioresource and Bioenvironment. International students can enjoy access to the knowledge and learning of our internationally renowned scholars without the difficulty of mastering Japanese. This program is also open to Japanese students, who can study in English in an international environment within a Japanese University.

Why choose IUP?

This program will equip you with the scientific knowledge and skills necessary for understanding the bioenvironment and the production and applications of bioresources. The course covers not only basic natural science subjects such as biology, chemistry and physics, but also cutting-edge biotechnology, economics and international relations. Through this rich and wide-ranging syllabus, together with opportunities for carrying out your own original research, the IUP prepares you to become a professional with advanced knowledge and skills so that you can contribute creative solutions to the challenges created by the human use of the environment and its natural resources.

English-based Degree Program

Friendly Instructors Teaching in **Small-groups**

New Campus

Exciting International Social Encounters

High-tech Learning Environment in JAPAN

Leading up to a degree.

All education curriculum in IUP conducts in English. In 3rd-year, as the pre-training for graduation research, all students have training for six months in one laboratory where they choose by themselves. IUP students share their research work with Japanese students in the four major courses. Research activities are in both languages, Japanese-English. In 4th year, students carry out the graduation research in the laboratory.

Year	1	2	3	4
	Autumn Winter Spring Summer	Autumn Winter Spring Summer	Autumn Winter Spring Summer	Autumn Winter Spring Summer
	General Education	Specialized Education	Laboratory Training	Research Project Graduation Thesis

IUP RESEARCH PROJECT AREA

Agricultural Resources, Engineering and Economics

The course provides a multilayered curriculum, covering basic agriculture studies, natural and social sciences, engineering, and socioeconomics. The courses students acquire specialized knowledge and skills related biofunctions, production environments, production and distribution systems, and distribution economics systems.

Applied Bioscience

This course provides a broad education, from the fundamentals to practical applications, in a range of areas including living phenomena, bioproduction materials, environmental conservation and recovery, food, and health by organically combining lectures, seminars, and experiments.

Forestry and Forest Products

This course offers comprehensive education in forestry and forest products. The courses students acquire specialized knowledge to contribute to the sustainable production and use of forest resources, the survival of humanity, and the restoration of the environment, and to gain the ability to respond to the needs of society.

Animal Resources

This course comprises introductory and specialized courses, scientific English classes, and laboratory and practical courses needed for students to acquire basic and specialized knowledge and fundamental skills in animal resources, the ability to identify issues related to animal resources, and globally minded leadership skills.

New Dual-Degree Program with Northern Arizona University (USA)

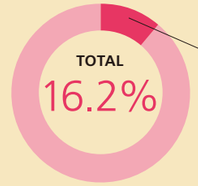
We will start the Dual-Degree Program with Northern Arizona University, USA (NAU, Major: Biology). Students who complete the program end up with two college degrees — one from Kyushu University and one from NAU in 4 years. This program adapts to the students enrolled in 2021. The selected 3rd-year students will study for one year in NAU.

GET MORE INFORMATION

Website: https://www.agr.kyushu-u.ac.jp/english/courses/iup/
Related Contact: Student Section, Faculty of Agriculture, Kyushu University
agryugakus@agr.Kyushu-u.ac.jp

IUP STUDENTS DATA

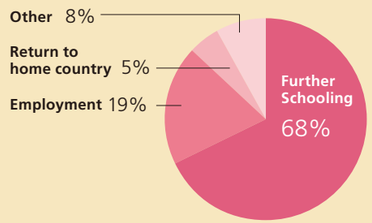
INTERNATIONAL STUDENTS
(Undergraduate & Graduate Programs)



266
1,642

China **Vietnam** **Korea** **Myanmar** **Indonesia** **Thailand** **Taiwan** **Laos** **Philippines** **Bangladesh** **Cambodia**
SriLanka **Hong-Kong** **Malaysia** **Egypt** **Afghanistan** **Palestine** **Iran** **United Arab Emirates** **Tanzania** **Ethiopia**
Ghana **Madagascar** **Nigeria** **Peru** **Argentina** **Brazil** **America** **Samoa** **France**
and more...

CAREER PATHS of IUP GRADUATES



Further Schooling after Graduation

Kyushu University
Technical University of Munich (Germany)
Imperial College London (England)
Wageningen University (Netherlands)
Utrecht University (Netherlands)
Leiden University (Netherlands)
University of Georgia (USA)
University of Illinois at Urbana-Champaign (USA)
Vietnam Academy of Science and Technology

INTERNATIONAL UNIT

The program, based on field experience, provides students first-hand experience of the current state of the agricultural sciences and issues in Japan, through special lectures by an education field trips to local farms and facilities, companies and cross-cultural exchanges.
We also offer joint online classes in cooperation with partner universities outside Japan, providing international education and research activities.

1 Be Together on the Earth: GLOBAL CAMPUS, Kyushu University

Short-term Inbound Programs

The program, based on field experience, provides students first-hand experience of the current state of the agricultural sciences and issues in Japan, through special lectures by an education field trips to local farms and facilities, companies and cross-cultural exchanges

Australia	**University of New South Wales**
Hong Kong City	**University of Hong Kong**
Canada	**University of British Columbia**
U.S.A.	**Northern Arizona University**
Thailand	**Kasetsart University**
Thailand	**Kohn Kaen University**

2 Development of a Stronger and More Dynamic International Network

Virtual & Collaborative Online International Learning (COIL) Programs

This new web-based program provides students the opportunity to gain an international perspective without travel, extending the benefits of a global education to a broader spectrum of students.

Canada	**University of British Columbia**
U.S.A.	**Northern Arizona University**
U.S.A.	**U. California, Davis, Extension**
Thailand	**Kasetsart University (plan)**
Australia	**University of Queensland (plan)**

STUDENT'S VOICE

INTERNATIONAL UNDERGRADUATE PROGRAM

Abrianna Elke Chairil
Indonesia, Class of 2020

Looking back to my time as a student of Kyushu University's International Undergraduate Program in English(IUPE), I can confidently say that it has been some of the most memorable years of my life. I decided to apply to the program after finding out that the Department of Agriculture offers courses related to animal and marine sciences since I have always been interested in the topic for the longest time. There are a wide variety of other courses as well which allows us to take classes based on our interests. While these courses are appealing on their own, one aspect that makes IUPE different to other programs is that the students are offered valuable research opportunities as a part of our graduation requirements. This allows us to not only obtain skills in conducting scientific research, but also to have experience working in the academic fields with people of similar scientific interests. Additionally, as we also had Japanese classes catered to our own ability levels, I was able to integrate into the Japanese society at a gradual pace while living as an international student. I managed to become friends with many Japanese students, and it certainly helped me get along better with the Japanese members of my research laboratory.
My four years as an undergraduate were hardly smooth sailing, but the support I received from my friends, colleagues, and mentors managed to help me through my struggles. I am glad I was able to study in IUPE.

In 2016, Kyushu University (Kyudai) offered me a once-in-a-lifetime opportunity to participate in IUP program. 4 years of living and studying in Fukuoka, Japan has taught me countless lessons. The professors gave us interesting lectures, friends gave us enormous support, and the facility of Ito Campus gave us the freedom to do any research of our interest. Kyudai is also a stepping-stone on my path to explore the world since I have been able to visit or conduct internships in Korea, USA, and New Zealand during my bachelor's. I graduated in 2020 and went to Europe for studying Erasmus Mundus Joint Master Degrees at University of Groningen and Uppsala University. Thanks to the training and expertise I have acquired during my time at Kyushu University, I have been able to adapt quickly to the new life, catch up easily with the study and research in the new country.

Do Thuy Linh
Vietnam, Class of 2020

INBOUND PROGRAM

Thank you so much for giving me the opportunity to do this. It is an experience I will never forget and I will definitely come back to Fukuoka for a holiday next time. I'll also miss the local KU students so much.

It gave me a new perspective on anti-aging food & encourages me to include them in my diet.

Really enjoyed as I hadn't learnt anything about it before at university.

I was impressed by the bottling factory as we get to really go through the processing line step by step and close all the way from making the bottle to the packaging.

SCHOOL of AGRICULTURE

Combining a wide range of academic disciplines including the study of biological production, biofunctions, and bioenvironments, our aim is to achieve the sustainable conservation and development of agricultural, forestry, and fishery ecosystems, and attain coexistence between people and nature.

COURSE	PROGRAM
Agricultural Resources, Engineering and Economics Course	Agronomy
	Agro-production Environmental Engineering
	Bioproduction System Engineering
	Agricultural Economics
Applied Biosciences Course	Agricultural Chemistry
	Food Science and Technology
Forestry and Forest Products Course	Forest Environmental and Management Sciences
	Forest Biosciences
	Biomaterial Sciences
Animal Resource Course	Fisheries Science
	Animal Science

IUP : International Undergraduate Program

Rice Genetics Has Entered the Age of Genome Biology

COURSE WEBSITE

AGRONOMY

Creating New Environmentally Friendly Agricultural Production Technology

This area is primarily concerned with scientific analysis of the life phenomena of bioresource organisms from the viewpoint of heredity, environment, and interrelations among organisms, so as to contribute to the resolution of global environmental issues. In our laboratories, students conduct research on edible crops such as rice and beans, garden crops such as vegetables and flowers, and bioproduction-related microorganisms, including phytopathogens, and various insects. Each laboratory seeks to improve productivity and product quality, the biological control of pests, the development of biological pesticides and methods of using natural enemies, and the discovery and utilization of new functions hidden in living creatures. Responding to the remarkable progress of the life sciences, we are engaged in education and research that makes good use of gene expression control and tissue culture methods.

LABORATORY

Plant Breeding, Crop Science, Horticultural Science, Plant Production Physiology, Plant Pathology, Entomology, Insect Genome Science

The Hiroshima Prefectural Technology Research Institute, Agricultural Technology Research Center
Stackable growing beds that use sunlight effectively

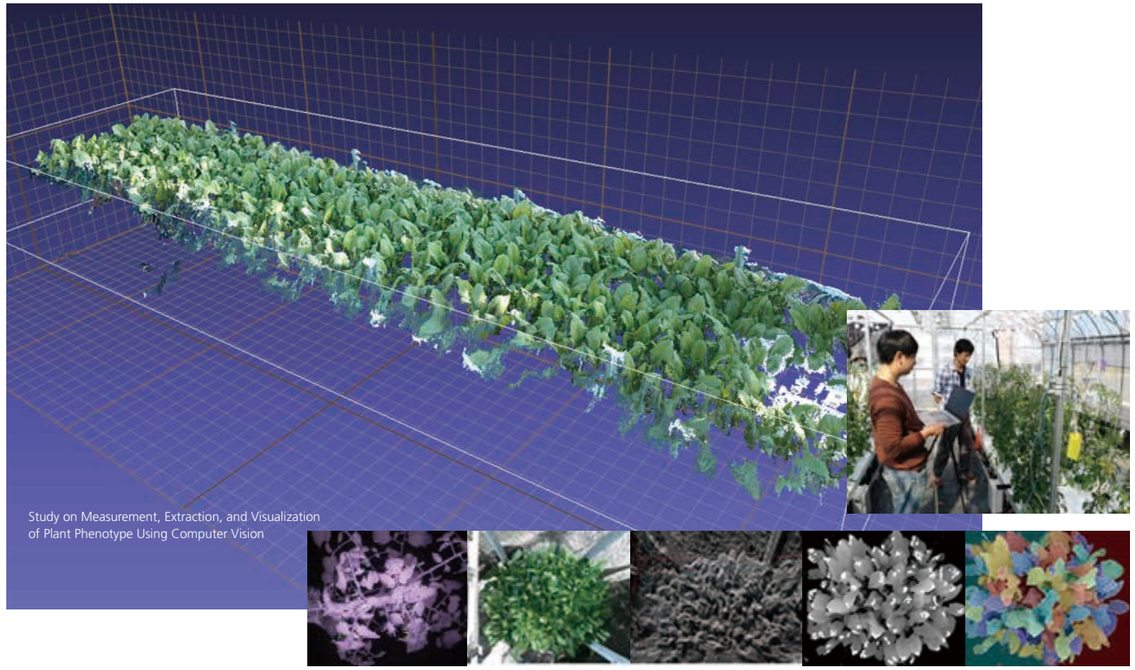
AGRO-PRODUCTION ENVIRONMENTAL ENGINEERING

Trailblazing the Future by Solving Issues Facing Agriculture and the Environment

Establishing the foundations for bioproduction is the basic target of this special area. We conduct research and education aimed at improving bioresource output and creating affluent rural areas through the utilization, control and preservation of the natural environment, and creation of new technologies. This area covers an extensive array of subjects, including those that involve soil, water, living creatures, weather, and our society. Our research goal is to explore the best ways to optimize these vast systems. To this end, we have established a uniquely broad academic system that covers both basic and applied fields. This comprehensive approach to academics and engineering allows us to play an important role in fulfilling the increasingly diversified needs of society.

LABORATORY

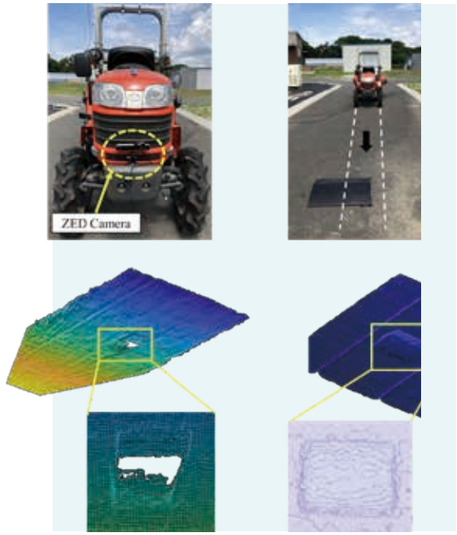
**Irrigation and Water Management,
Water Environment Engineering,
Environmental Soil Engineering,
Soil Science, Agricultural Meteorology**



BIOPRODUCTION SYSTEM ENGINEERING

Giving Shape to Technology that Underpins Sustainable Food Production and Safe Distribution of Fresh Agricultural Products

In this area, research is conducted in pursuit of improving productivity and product quality, centering on the mechanization and systematization of each product cycle process, from bioresource production to distribution. This means that we work toward the development of machines related to crop cultivation as the primary step of bioproduction, technologies that boost productivity, improvements in processing, storage, and distribution technologies, as well as improved safety and systemization for the handling of the crops produced. Beyond this, we are making solid inroads in the pursuit of human safety and comfort, as well as in robotization and automation. On the utilization and management sides, improvements in efficiency using the system engineering approach are being achieved.



Prediction of Tractor Behavior based on Reconstructed Terrain profiles by Stereo-vision Camera

LABORATORY

**Agricultural Machinery and
Production Systems Design,
Postharvest Science**

AGRICULTURAL ECONOMICS

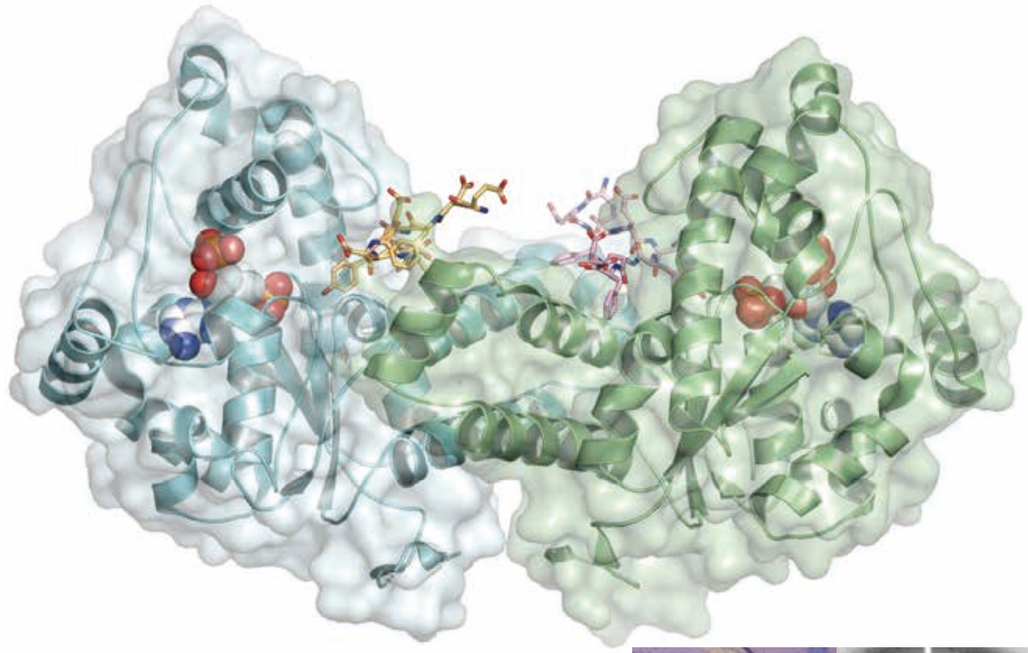
Thinking About Food, Agriculture, Rural Communities, Resources, and the Environment from a Social Scientific Perspective

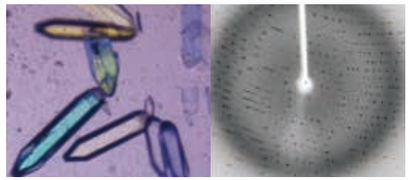
Bioresource and Bioenvironmental economics covers the socioeconomic issues involved in the international food system, mainly in Asia, to contribute to the stable supply of safe food and to the environmentally sustainable development of domestic and foreign food industries and regional economies. Attaining these objectives requires not only basic knowledge of bioresource and bioenvironmental economics, but also knowledge of natural science and technological knowledge of food, the environment, and rural economies as well as an international sensibility. Therefore, students are required to complete basic subjects in natural sciences and technological sciences and to nurture an international awareness through close exchanges with students and researchers from Asia, Europe, and America. In this way, they can obtain sufficient knowledge in both natural sciences and technological sciences in addition to social sciences.

LABORATORY

Food and Agricultural Policies, Agricultural and Farm Management, Quantitative Food Economic Analysis, Food Marketing and Distribution, Environmental Economics

COURSE WEBSITE





3D structure of enzymes working in humans determined by X-ray crystallography
Structural information on the atomic level reveals the relationship between keys (substrate) and keyholes (enzymes).

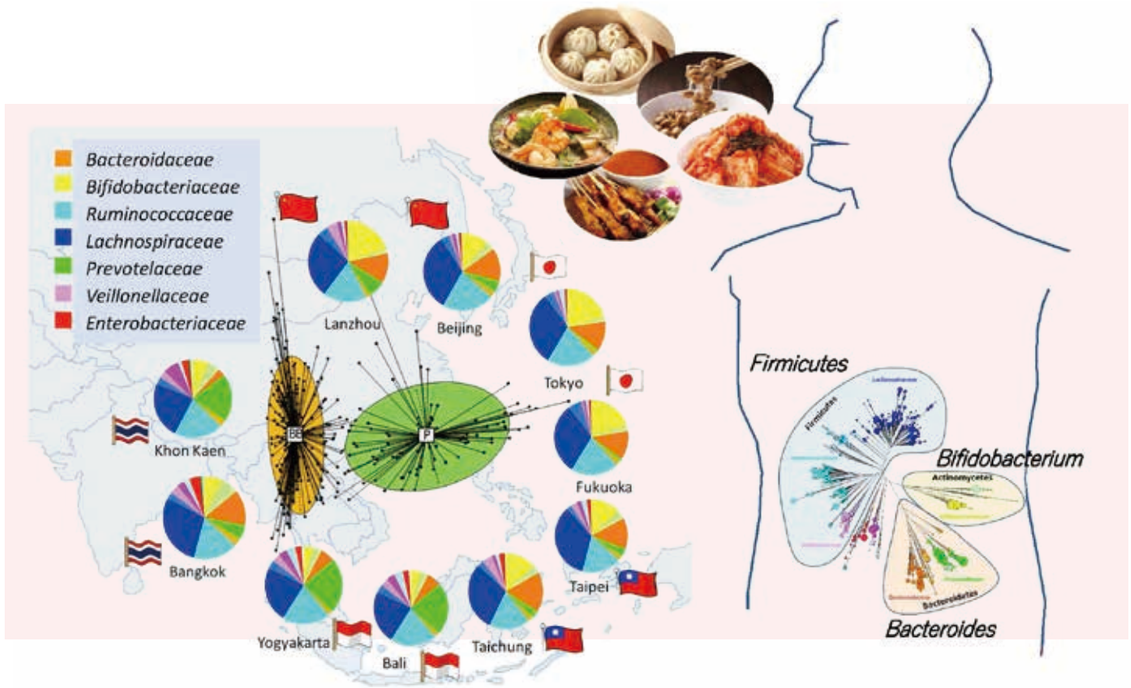
AGRICULTURAL CHEMISTRY

Cutting-edge Biotechnology

This research area is geared to nurture students understanding of the structure-function relationships of biomolecules involved in various biochemical reactions. Students can opt to engage in research in a wide range of molecular biosciences, including organic chemistry, biochemistry, cell biology, gene technology, bio-energy, genetic engineering and many others. We conduct research and studies that seek to clarify the various life phenomena engaged-in by living creatures, chemically breaking down the structures and functions of the diverse substances they produce and analyzing the interaction between the creatures and their environment from a physical standpoint. We use this knowledge to enhance our own primary and secondary production processes and ultimately aim to contribute to the welfare and prosperity of humankind.

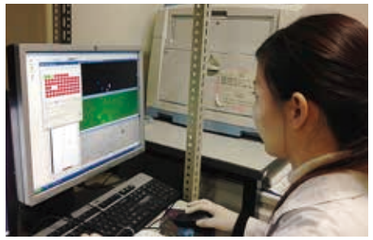
LABORATORY

Economics, Plant Nutrition, Soil and Environmental Microbiology, Applied Microbiology, Biophysical Chemistry, Molecular Gene Technology, Biochemistry, Pesticide Chemistry, Synthetic Biology, Bio-Process Design



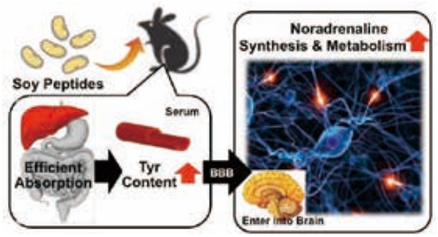
Study on "Gut Flora"—the Interface Between Food and Health

FOOD SCIENCE and TECHNOLOGY



At the Forefront of Food Science and Technology

This research area carries the banner for bioscience based on life science and its technologies. Therefore, the kind of study we shall engage in is not just a parallel of biology, chemistry, and engineering, but rather a truly interdisciplinary domain that unifies these four subjects. Our research and education involve: (1) the advanced utilization of the functions of food materials and their by-products, the conversion of unused resources into food, and the development of new bioresources; (2) confirming the safety, quality and nutritional status of secondary and tertiary products of food; (3) clarifying the physical, chemical, and biochemical changes that occur in the production processes and their controls; and (4) the principles of food processing, related machinery, and the biological treatment of organic waste products.



Prolonging the Brain's Healthy Lifespan with New Nutritional Functions of Protein, Peptides, and Amino Acids

LABORATORY

Nutrition Chemistry, Food Chemical Biology, Food Analysis, Food Hygienic Chemistry, Food Process Engineering, Microbial Technology, Cellular Regulation Technology, Microbial Bioresources, Functional Genomics and Metabolism

COURSE WEBSITE

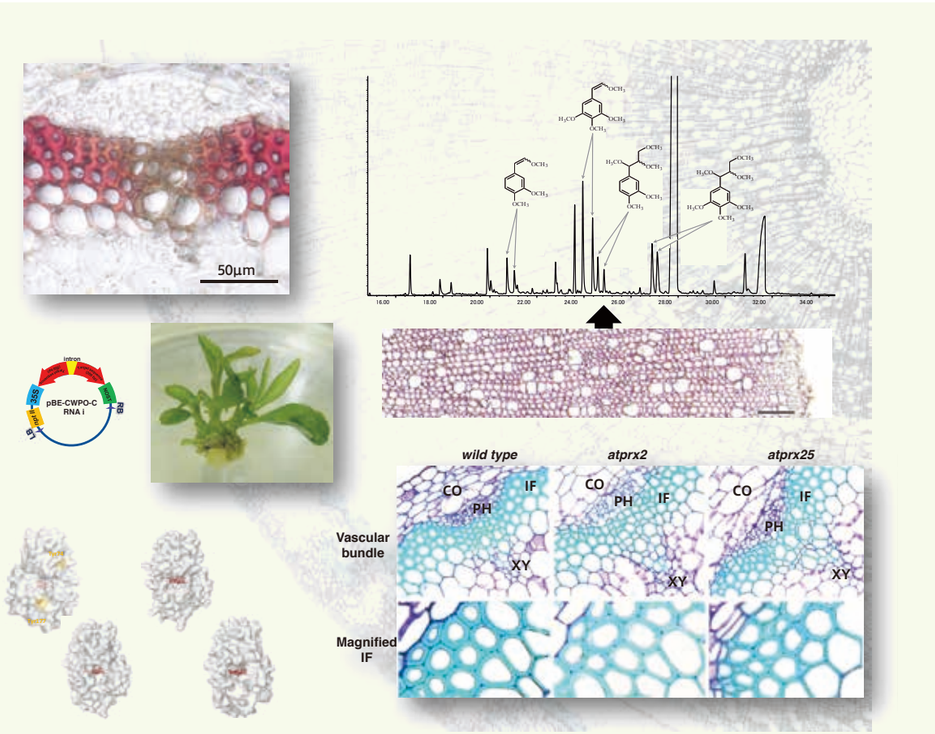
FOREST ENVIRONMENTAL and MANAGEMENT SCIENCES

Forests must be cultivated and managed over long periods of time, spanning multiple generations of people.

Seeking to achieve the preservation of the global environment and the sustainable production of forest resources, this study area covers a wide range of research topics, including preservation of the natural environment and land; elucidation of forest functions to prevent natural disasters; the development of new technologies related to measurements of forest resources; and optimization of the policies related to forest management that harmonize wood productivity, public interest, and the natural environment.

LABORATORY

Forest Management, Erosion Control, Forest Policy



Interdisciplinary Science of the Formation of Tree Cell Walls.

FOREST BIOSCIENCES

Exploring Unknown Functions of Forest Ecosystems

Extensive research and education are conducted on subjects ranging from the molecular and material to the ecological level, all aimed at actively developing the various functions of forest creatures and their complex environment for new applications, preserving and restoring the global environment, and making optimal use of forest resources in harmony with nature.

LABORATORY

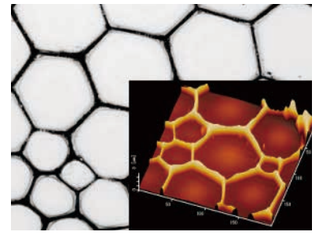
**Silviculture, Wood Science,
Forest Chemistry and Biochemistry,
Systematic Forest and Forest Products Science**

Exterior and Interior of Wooden Dome
Made with Large Sectional Laminated Timber

BIOMATERIAL SCIENCES

Striving for Sophisticated People- and Environmental-Friendly Use of Forest Resources

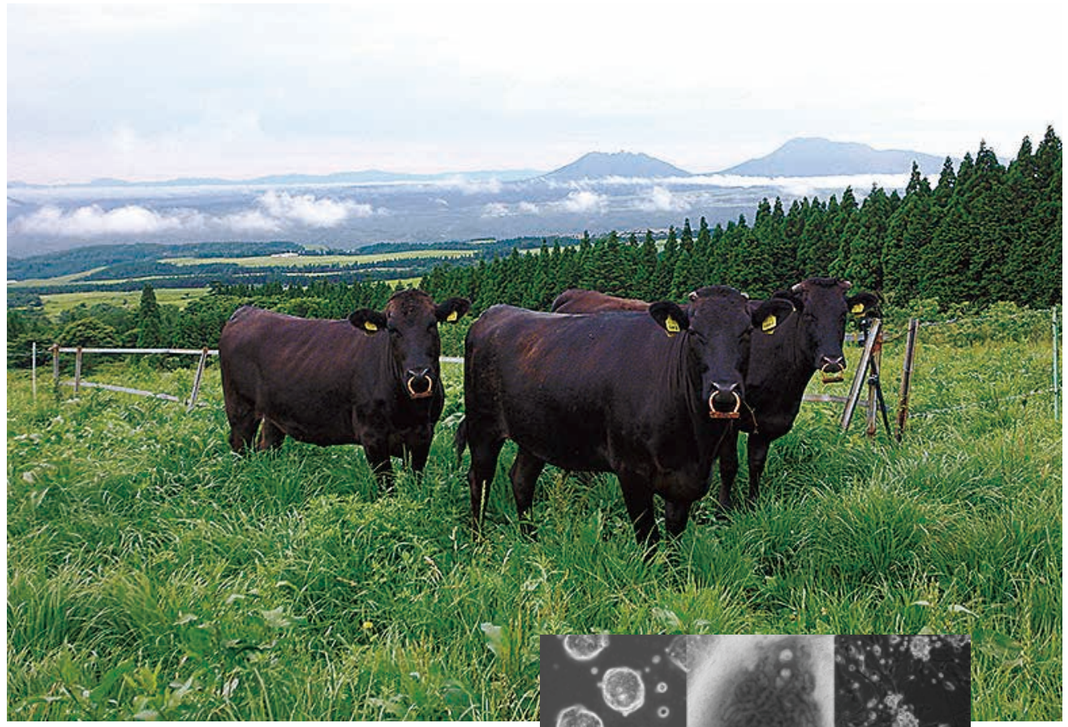
This specialised area covers research on the advanced use of biomaterials, especially wood products. The research topics include advanced physical and chemical utilization of forest bioresources and highly organized engineering of forest-related environmental issues. All of this research is done with the goal of realizing the coexistence of an affluent society with the preservation of the global environment, thus requiring the wide-ranging education we offer.



Honeycomb film
made of cellulose

LABORATORY

**Wood Materials Technology,
Bioresources Chemistry,
Biomacromolecular Materials,
Biomaterial Design**

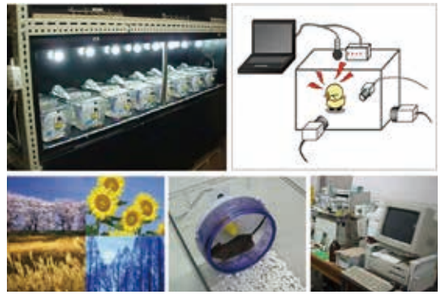


Researching the Mechanisms of Reproductive Cell Formation
Left: Pluripotent stem cells in culture (ES, iPS cells), Center: Testicular structure reconstituted in culture, Right: Sperm stem cells in culture

ANIMAL SCIENCE

Methods for production of high-quality protein sources, including milk, meat, and eggs, originating from domestic animals

Animal science provides methods for production of high-quality protein sources, including milk, meat, and eggs, originating from domestic animals. Although the remarkable increase in the world's population requires the effective production of animal products, sustainable production in harmony with the environment is also essential. This research area comprises anatomy, physiology, biochemistry, and biotechnology of domestic and wild animals, aimed at optimized utilization of animal resources, development of animal food processing, evaluation of feed resources, and animal protection.



Applying Biological Clocks and Seasonal Rhythms to Animal Production and Health Science

COURSE WEBSITE

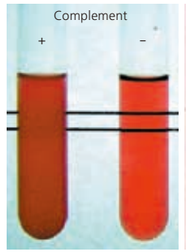
LABORATORY

Functional Anatomy, Reproductive Physiology, Zoology, Muscle & Meat Sciences, Regulation in Metabolism and Behavior

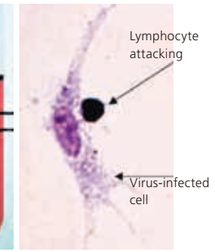
FISHERIES SCIENCE

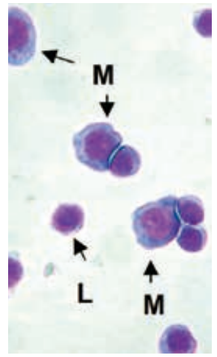
The Earth is an Aquatic Planet

With growing populations and increased food demands in the world, fishery resources have a vital role to play in the supply of bioresources. Aquatic organisms living in marine and freshwater environments are important bioresources providing not only food but also unique compounds that can be used as medical and industrial materials for human welfare and environmental conservation. Studies in aquatic biosciences include advanced lectures and various field and laboratory activities in marine biosciences and biotechnology to produce experts on fisheries and related biosciences.



When a complement destroys xenogeneic red blood cells, the hemoglobin is released and the red blood cells disappear, turning the blood transparent.





White blood cells in carp (Cyprinus carpio) blood (M= macrophage, L= lymphocyte)

LABORATORY

Marine Biology, Fisheries Biology, Marine Biochemistry, Marine Resource Chemistry, Marine Environmental Science, Aquatic Field Science

School of Agriculture
Graduate School of Bioresource and Bioenvironmental Sciences
Faculty of Agriculture
KYUSHU UNIVERSITY

FACILITIES

- Fishery Related Facility
- University Forest
- University Farm
- Hikosan Biological Institute
- Kuju Agricultural Research Center

Ashoro Research Forest
1-85 Kitagojo Ashoro-machi, Ashoro-gun, Hokkaido

JAPAN

West Zone 5, Ito Campus

Institute of Biological Control
Innovative Bio-Architecture Center
Plant Frontier Research Center

Biotron Application Center

Institute of Tropical Agriculture

Institute of Genetic Resources

Fishery Research Laboratory
4-46-24 Tsuyazaki Fukutsu-shi, Fukuoka-ken

Ito Campus
744 Motooka, Nishi-ku, Fukuoka-shi

Karatsu Satellite of Aqua-Bioresource Innovation Center
59-2 Oka, Karatsu-shi

Hikosan Biological Institute
1326 Hikosan, Soeda-machi,
Tagawa-gun, Fukuoka-ken

Kuju Agricultural Research Center
4045-4 Kuju, Kuju-machi, Takeda-shi, Oita-ken

Sawara Training Forest
1-23-2 Ikinomatsubara, Nishi-ku, Fukuoka-shi

Head Quarters of University Forest, Kasuya Research Forest
394 Tubakuro Sasaguri-machi,
Kasuya-gun, Fukuoka-ken

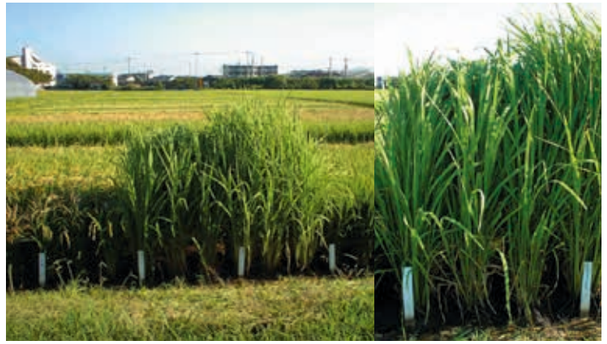
University Farm
111 Harumachi Kasuya-machi, Kasuya-gun, Fukuoka-ken

Shiiba Research Forest
949 Ookawauchi Shiba-mura,
Higashiusuki-gun, Miyazaki-ken

Hitoyoshi Office of University Forest
2-23 Sagara-machi,
Hitoyoshi-shi,
Kumamoto-ken

Ibusuki Experimental Farm
8886 Higashikata Ibusuki-shi,
Kagoshima-ken

Producing new cultivars with diverse fruit tree genetic resources



Floating rice as feed: Striving to create high-yield feed

University Farm

https://www.agr.kyushu-u.ac.jp/english/facilities/#farm

The University Farm provides hands-on, practical agricultural education. Graduate students conduct unique research projects by the use of the vast farmland and large livestock. Research using cutting-edge information technology and overseas field studies is also conducted here, with the aim of establishing environmental- and people-friendly farming on both a local and global scale.

Sasaguri Farm

Harumachi Farm

Kuju Agricultural Research Center

Research on silviculture technology of plantation forests

Relationship between forest, and insects and other Animals

A wide range of practical courses are carried out utilizing three research forests, which are located in areas with different natural and social conditions.

University Forest

https://www.agr.kyushu-u.ac.jp/english/facilities/#forest

The University Forest consists of three forests: Kasuya (Fukuoka), Shiiba (Miyazaki), and Ashoro (Hokkaido) Research Forest, covering the main vegetation zones (warm-temperate and cool-temperate forests) of the Japanese archipelago. Education and research in the University Forest is carried out using these diverse forest areas.

For Kyushu University students, the laboratory provides practical programs for international students who are part of the international inbound program.

research boats

Fishery Research Laboratory

https://www.agr.kyushu-u.ac.jp/english/facilities/#fisheries

The Fishery Research Laboratory is located on the Tsuyazaki coast (about 25 km north of Fukuoka City), facing the sea of Genkai. Staff in the laboratory are mainly concerned with subjects relating to fisheries science: fish ecology, fish physiology, aquaculture and fry production of marine animals. Research facilities including two research vessels and accommodation are also offered to researchers and students who may wish to visit and carry out research and/or experiments.

Parasitoid wasps use their ovipositor to lay eggs in other insects. When their larvae hatch, they consume and kill the insect. The photo on the right is of a parasitoid wasp piercing the hard exterior of a moth pupa with its ovipositor. Parasitoid wasps play an important part in controlling pest outbreaks.

Photo 1: Aphid infected with an Entomophthorales fungus, Photo 2: Longhorn beetle infected with a white muscardine fungus

Institute of Biological Control

https://www.agr.kyushu-u.ac.jp/english/facilities/#biological

The Institute of Biological Control is the only institute in Asia that carries out specialized education and research on biological control methods. Because biological control is a pest management strategy with natural biological interactions or natural principles, a growing attention has been paid to biological control as a promising approach of eco-friendly pest control and environmental conservation.

We have the world's greatest collection in terms of quality and quantity, and have become vital to silkworm research (photos are of larvae and examples of cocoon mutations).

This photo shows the separate cultivation of each line. The rice plants growing side by side are all different lines and varieties.

The fact that 2 different colored mutants (pale purple and orange-yellow) can be obtained from the same strain is a global first, and the elucidation of the genes in these bacterial strains is garnering attention.

Institute of Genetic Resources

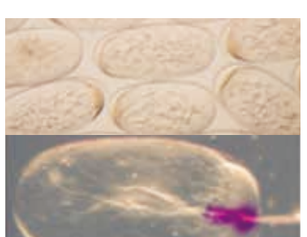
https://www.agr.kyushu-u.ac.jp/english/facilities/#genetic

The institute is devoted to basic and applied studies on genetics with special interest in the stock maintenance of agriculturally important organisms, silkworm, rice and fermentative microbes. Emphasis has also been placed on the studies at molecular levels to contribute to the development of biotechnology and to establish the gene libraries of these biological resources.

Aqua-Bioresource Innovation Center

https://www.agr.kyushu-u.ac.jp/english/facilities/#aqa-bio

We research the mechanism of the reproductive physiology of marine fish and the production technology by complete aquaculture. We are also developing the suitable species for aquaculture using genome editing technology.



Phytotron artificially control physical factors surrounding plants such as temperature, moisture, light, wind, and gas composition. It is a place not only for basic academic researches, but also of technology development for plant factories.

Biotron Application Center

https://www.agr.kyushu-u.ac.jp/english/facilities/#biotron

The Biotron Application Center has bio-environmentally controlled facilities and offers the facilities for experiments. Phytotron artificially control physical factors surrounding plants such as temperature, moisture, light, wind, and gas composition. The Center also provides bio-environmentally controlled facilities for insects and fish/amphibians/reptiles designed under the identical concept. The center supports researches to expand usage of controlled environments to various areas from academic research to industrial technology development.

Terraced rice fields in Southeast Asia (Vietnam)

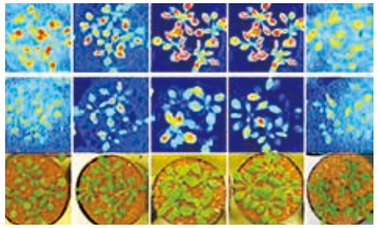
The tropical region is a treasure trove of biological resources and inhabited various forms of life.

An international cooperation project meeting at Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh

Institute of Tropical Agriculture

https://www.agr.kyushu-u.ac.jp/english/facilities/#tropical-agr

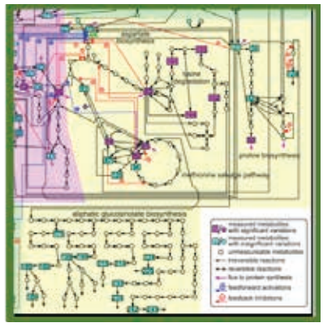
Our mission is to contribute pure research related to agriculture and environment in Tropics including forestry, biology, entomology, horticulture, soil and water engineering. Our faculty members take charge of graduate school education. Moreover, we contribute international cooperation through research and educational activities.



Plant Frontier Research Center

https://www.agr.kyushu-u.ac.jp/english/facilities/#plant-frontier

The Frontier Research Center for Plant Science is a joint-use research facility on campus established in 2018 as a base for comprehensive R&D and testing in plant science that strives to contribute to solving food and environmental issues, major problems of this century. It is comprised of the 5 divisions of basic research, selective breeding, controlling cultivation environments, the economics of distribution, and international deployment related to comprehensive research on plants, particularly the grain plant of rice, and the applications of such research.



Insect Science and Creative Entomology Center

Insect Science and Creative Entomology Center was established in April 2018, to overcome issues such as loss of biodiversity and the spread of insect-borne infectious diseases that modern society faces, by integrating the insect sciences of Kyushu University and creating a new “knowledge”.This center consists of 3 units, insect taxonomy, environment and hygiene entomology, and creation of new insect industry. The aim of this center is to establish a global research and education center that can contribute to the well-being of humanity.

https://www.agr.kyushu-u.ac.jp/english/facilities/#insect

Innovative Bio-Architecture Center

Innovative Bio-Architecture Center (i-BAC) aims to advance two novel research areas, industrial biomaterial/bioenergy design and positive health design. The center comprises two divisions, “Biomaterials” and “Metabolic systems”, and has been committed to promote education of these search areas in the Undergraduate and Graduate school of Bioresource and Bioenvironmental sciences in the University.

https://www.agr.kyushu-u.ac.jp/english/facilities/#innovative-bio

International Graduate Program IGP

OVERVIEW

The Graduate School of Bioresource and Bioenvironmental Sciences emphasizes the role of agricultural sciences in overcoming challenges related to global food security and the environment, contributing to global progress in maintaining a stable supply of food and resources, environmental conservation, and the promotion of health and welfare. To this end, the school's leading researchers and specialists are highly knowledgeable in the fields of life science, environmental science and socioeconomics.

The International Graduate Program (IGP) strives to build on the capacity attained in the above fields for international students from developed and developing countries aiming to contribute to global sustainable development.

The Master's program emphasizes the acquisition of theoretical and practical abilities, while the doctoral program promotes specialty-specific and creative scientific abilities.

PROGRAM

The Graduate school of Bioresource and Bioenvironment has two separate programs. A standard program taught in Japanese, which commences in April each year, and the international program, IGP, aimed at international students, which commences in October and focuses on international development research. Students in both programs are awarded either a Master of Science (Msc) or Doctor of philosophy in Agriculture (PhD) upon completion of their studies.

Both the Master's and Doctoral paths within the International program have several common features:

1. **World Class Programs**
2. **Graduate Program entirely in English**
3. **Diverse & Friendly Environment**

MAJOR DEPARTMENTS

Bioresource Sciences

The mission of the Department of Bioresource Sciences is to overcome the food problem which is one of high-priority issues imposed on human in the 21st century.

Agro-enviromental Sciences

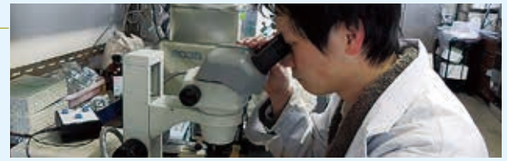
The multifaceted and comprehensive approach is crucially required to solve a variety of environmental problems widely ranging from global scale to regional scale, and to establish the sustainable society.

Agricultural and Resource Economics

This department conducts education and research on the international food system from the viewpoint of social sciences with the aim of maintaining a stable supply of safe food and sustainable development of food industries and regional societies.

Bioresource and Biotechnology

The Department of Bioscience and Biotechnology consists of four educational courses, Molecular Biosciences, Systems Bioengineering & Food Science & Biotechnology.



ADMISSION / SUPPORT

ADMISSIONS

Undergraduate Program

Enrolling in Undergraduate Program

APPLICAITON PERIOD: January

2020 Examination for International Applicant
(Academic Year from April, 2020, in Japanese)

Enrolling in International Undergraduate Program

2020 Applicant Guidelines for International Programs
(Academic Year from October, 2020, in English)

Graduate Program

Enrolling in Graduate Program

Master's Program / Doctor's Program

2020 Examination for International Applicant
(Academic Year from April, 2020, in Japanese)

Enrolling in International Graduate Program

2020 Applicant Guidelines for International Programs
(Academic Year from October, 2020, in English)

APPLICAITON PERIOD:
Research Students (Spring Term Entry) Mid December, (Autumn Term Entry) Mid June
Master's Program (Spring Term Entry) Late December, (Autumn Term Entry) 1st:Mid January, 2nd:Late March, 3rd:Early June
Doctoral Program 1st: Mid January, 2nd:Late March, 3rd:Early June

SCHOLARSHIPS

For international Students

See the scholarship list below

For students who are Japanese citizens

Scholarship information for local public bodies and private scholarships

Kyushu University's original scholarship and financial supportbodies and private scholarships

ACADEMIC SUPPORTERS

The International Programs have coordinators entrusted with the role of helping you with any aspect of college life. You may seek their guidance and counseling not only on academic matters but also on other issues that might affect your learning environment. In addition, a counseling service is available if you face difficulties related to illness or family concerns, where English speaking staff can help you to find the best way to resolve the situation.

STUDENT SUPPORTERS

A support team consisting of our current students, both Japanese and non-Japanese, will be assigned to the participants in the International Programs. This team will be your guide to your new environment and will help you adjust to life in Japan. While the support team serves as a community of your personal advisors, the International Student and Researcher Support Center offers professional support when needed. The English-speaking staff in the Center will come to your rescue when you need help with many aspects of your life in Japan.

STUDENT ACCIDENT INSURANCE

The Student Accident Insurance scheme is a nationwide mutual-aid system applicable to physical injuries that occur during the academic day, official programs, extracurricular or other university related activities. To join the Student Accident Insurance plan, an initial fee must be paid at the time of matriculation.

HOUSING

Kyushu University has dormitories on the Ito Campus as well as around the other campuses, fully-furnished with the facilities necessary to make your college life safe, easy, and comfortable. The University can also assist you in finding a place to live, perhaps in a private apartment close to campus, and help you through all of the renting procedures. We do all we can to ensure that you can focus on studying without any hassles.

Housing Information
from Kyushu University International Student and Researcher Support Center

HISTORY

Kyushu University History

Founded in 1911 as one of Japan's seven Imperial Universities, Kyushu University has established itself as a leader in education and research in Asia. Currently, it has over 2,000 faculty staff, and 20,000 students, including more than 2,000 international students. Comprehensive in its academic reach, the university has over 13 undergraduate departments, 18 graduate schools, and numerous affiliated research centers. Kyushu University's main strengths lie in its active and innovative science programs, as is evidenced by the medical school, one of the most highly regarded and advanced in Asia.

1903	Founded as Fukuoka Medical College, an extension campus of Kyoto Imperial University
1911	Established as Kyushu Imperial University
1919	Founded as Faculty of Agriculture in Kyushu Imperial University
1949	Reorganized into Kyushu University under the National School Establishment Law Merged with Kyushu Institute of Design
2003	Merged with Kyushu Institute of Design
2004	Became a National University Corporation
2011	Celebrated its first centennial
2018	Ito campus relocation completed
2019	School of Agriculture celebrates its 100th anniversary

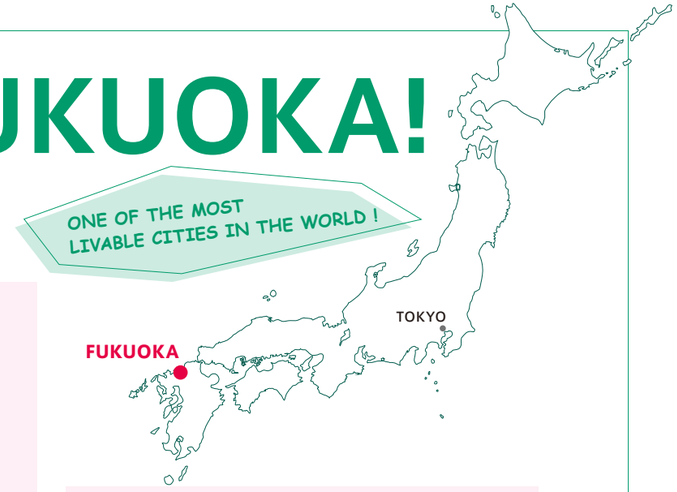
100th Anniversary

Kyushu University Faculty of Agriculture was founded in 1919, the third of its kind to be established after the University of Tokyo and Hokkaido University. In 2018, Faculty of Agriculture is now located at the new Ito Campus, which is second to none in Asia in terms of both research facilities and learning environment. In 2019, we celebrated our 100th anniversary. As a core agricultural university, since our founding we have produced talented individuals who have gone on to successful careers around the world, contributed greatly to the improvement of people's lives in Japan and other Asian countries, and played a part in the advancement of related industries by providing education and conducting research based on the mindset of carrying out research that balances theory and application.

School of Agriculture
Kyushu University
Treasures of 100 years Website
(Japanese Only)

Study in **FUKUOKA!**

The Home of Kyushu University



WELL-BALANCED

No. 1 The shortness of the access time to the airport
GPCI2019, Among 13cities in Asia

The number of beaches with good water quality

Population Growth among Japanese Cities

Lowest Food Cost

MULTICULTURAL

Number of International Students No. 1

Ocean Liner Passengers No. 3

Photographs provided by Fukuoka City