

# Bioresource and Bioenvironment

## International Undergraduate Program

### Kyushu University

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Bioresource and Bioenvironment



KYUSHU UNIVERSITY

# What is Bioresource and Bioenvironment?

## Bioresource and Bioenvironment course

### Admission information, tuition fees, scholarships



# What is Bioresource and Bioenvironment?



The increasing world population needs more food and is using more natural resources

## **Bioresource and bioenvironment**

Research and development of:

Sustainable use of natural resources

Sustainable improvement of food production, processing and distribution.



# United Nations sustainable development goals

The UN has developed a series of goals for sustainable development. The same issues affect all countries.

UN sustainable development goals





# Bioresource and bioenvironment includes most of the UN SDGs

Topics covered in Bioresource and Bioenvironment courses are related to many of the United Nations sustainable development goals.

Research projects contribute to achieving these aims.

The infographic displays the 17 Sustainable Development Goals (SDGs) arranged in three rows. The top row includes SDG 17 (Partnerships for the Goals) and SDG 16 (Peace, Justice and Strong Institutions), with the word "SPIRITUAL" to their right. The middle row includes SDGs 11 (Sustainable Cities and Communities), 12 (Responsible Consumption and Production), 13 (Climate Action), 14 (Life Below Water), and 15 (Life on Land), with the word "ECOLOGICAL" to their right. The bottom row includes SDGs 1 (No Poverty), 2 (Zero Hunger), 3 (Good Health and Well-being), 4 (Quality Education), 5 (Gender Equality), 6 (Clean Water and Sanitation), 7 (Affordable and Clean Energy), 8 (Decent Work and Economic Growth), 9 (Industry, Innovation and Infrastructure), and 10 (Reduced Inequalities), with the word "PEOPLE" to their right. The words "SUSTAINABLE DEVELOPMENT GOALS" are written in large letters at the bottom. A red box highlights the goals 1, 2, 3, 11, 12, 13, 14, 15, 16, and 17.

SUSTAINABLE DEVELOPMENT GOALS

United in Diversity Creative Campus @ Kura Kura Bali  
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# Bioresource and Bioenvironment course





# Bioresource and bioenvironment Faculty of Agriculture, Kyushu University



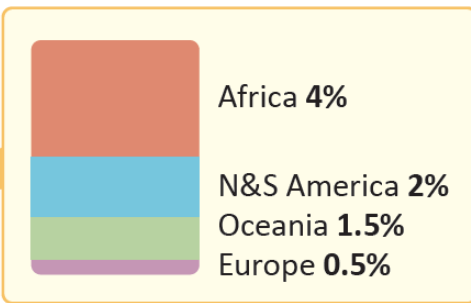
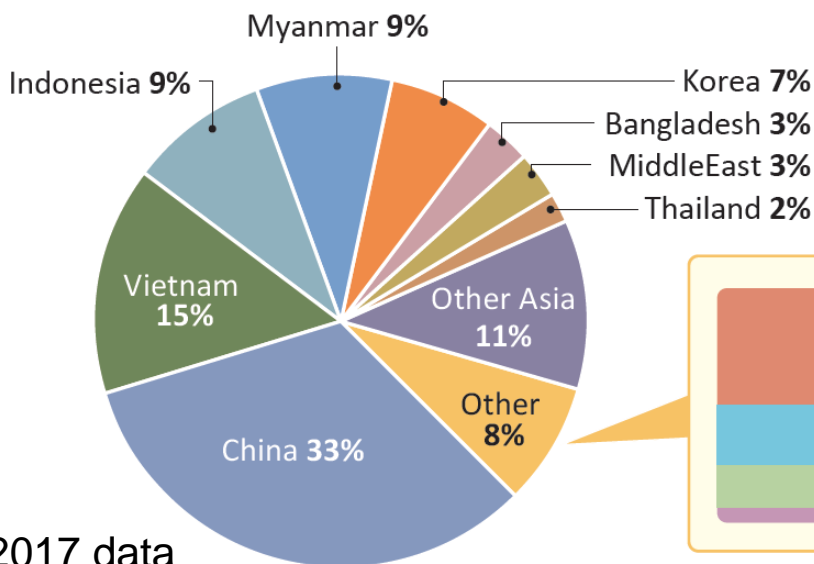
New agriculture building opened in 2018

## Faculty of Agriculture

1017 undergraduate students

617 graduate students

**15% (240) are international students**



Home country of international students

2017 data



# Bioresource and Bioenvironment

## 4 Year – Bachelor of Science degree

**Freshman**

**Sophomore**

**Junior**

**Senior**

Autumn Winter Spring Summer

Autumn Winter Spring Summer

Autumn Winter Spring Summer

Autumn Winter Spring Summer

**1st year**  
general education

**2nd and 3rd year**  
specialized education

**4th year**  
research project  
graduation thesis



Study at Kyushu University in Japan



## Study in Japan and USA

# Dual Degree Program

Bioresource and Bioenvironment students can now apply to join the dual degree program and spend their third year studying in the USA at Northern Arizona University.



After 4 years students graduate with a degree from **Kyushu University** and a degree from **NAU**.



International Undergraduate Program (IUP)



College of the Environment, Forestry, and Natural Sciences (CEFNS)





# Kikan general education topics

In the 1st year all students at Japanese universities take common classes. For IUP students many classes are shared by Agriculture and engineering students. IUP

## **Liberal Arts and Language:**

Philosophy, Economics, Law, Japanese Language, Academic English

## **Science Core:**

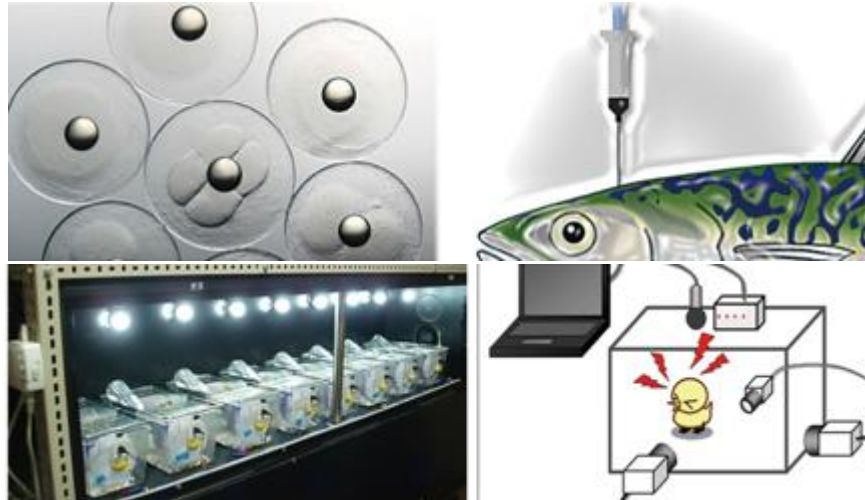
Covers introductory maths, physics, chemistry and biology topics. Basic Information Science, Laboratory Experiments





# Years 2 and 3 Specialised courses

## I. Animal resources



## II. Forestry and forest products



## III. Applied biosciences



## IV. Agricultural resources, engineering and economics





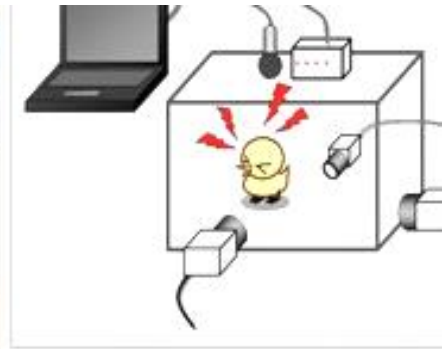
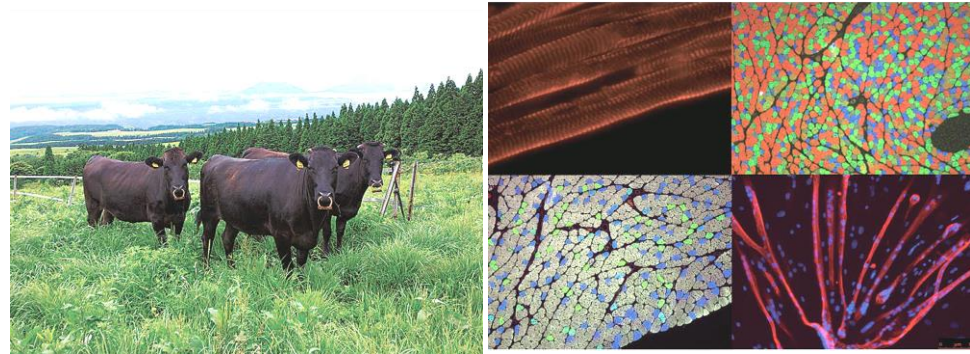
# I. Animal resources

## Fisheries science



Aquaculture research centre

## Animal science





## II. Forestry and forest products

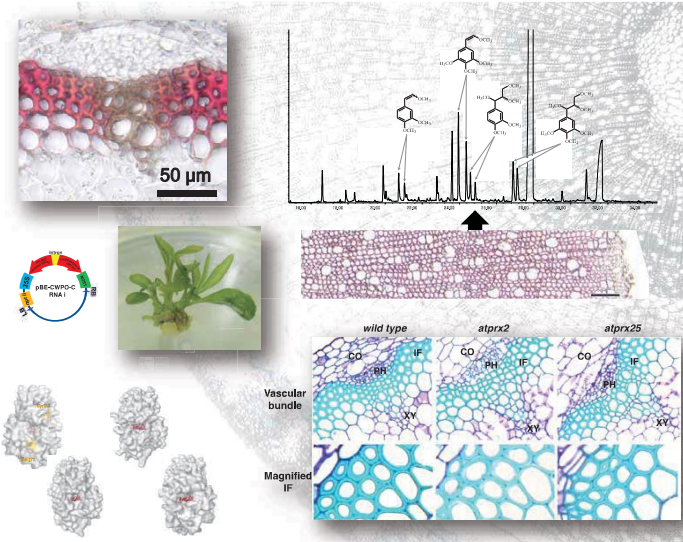
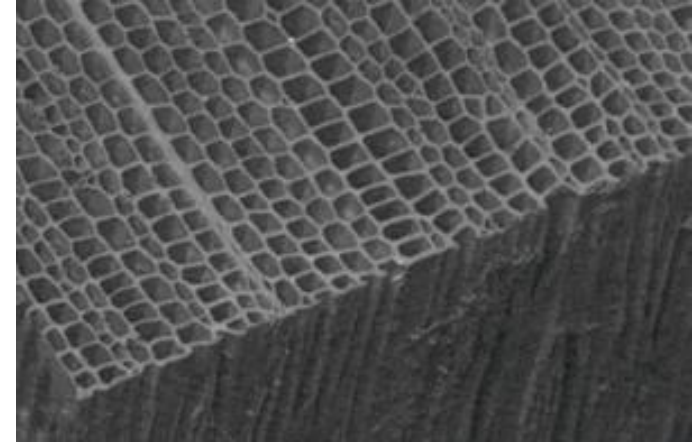
Forest environmental and management science



Biomaterial science



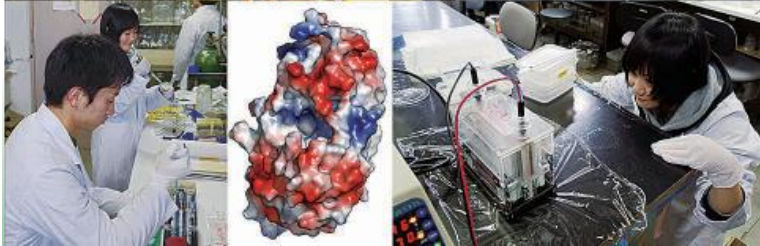
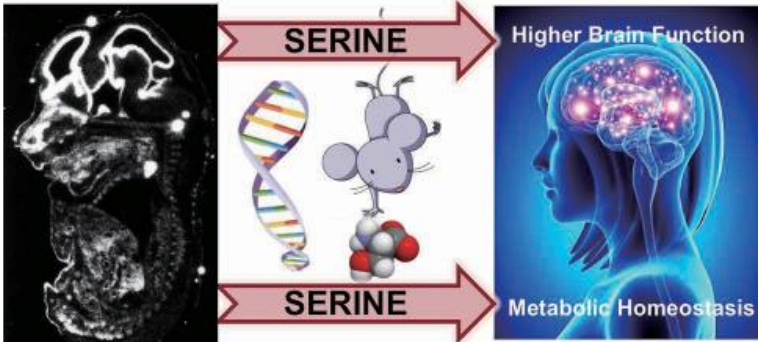
Forest Biosciences





# III. Applied biosciences

## Food science and technology



A section titled "Food Analysis" on a green background. It includes a 3D molecular model of a protein, a laboratory instrument, a computer monitor displaying a colorful heatmap, and a vertical monitor.

## Agricultural chemistry



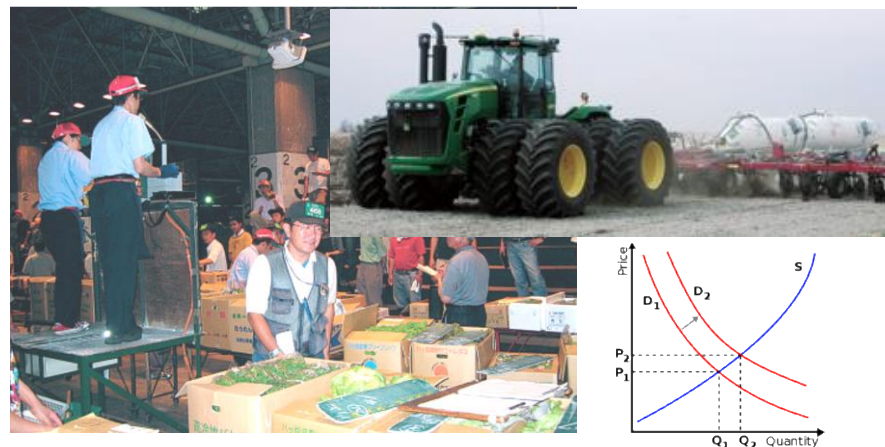


# IV. Agricultural resources, engineering and economics

## Agronomy



## Agricultural economics



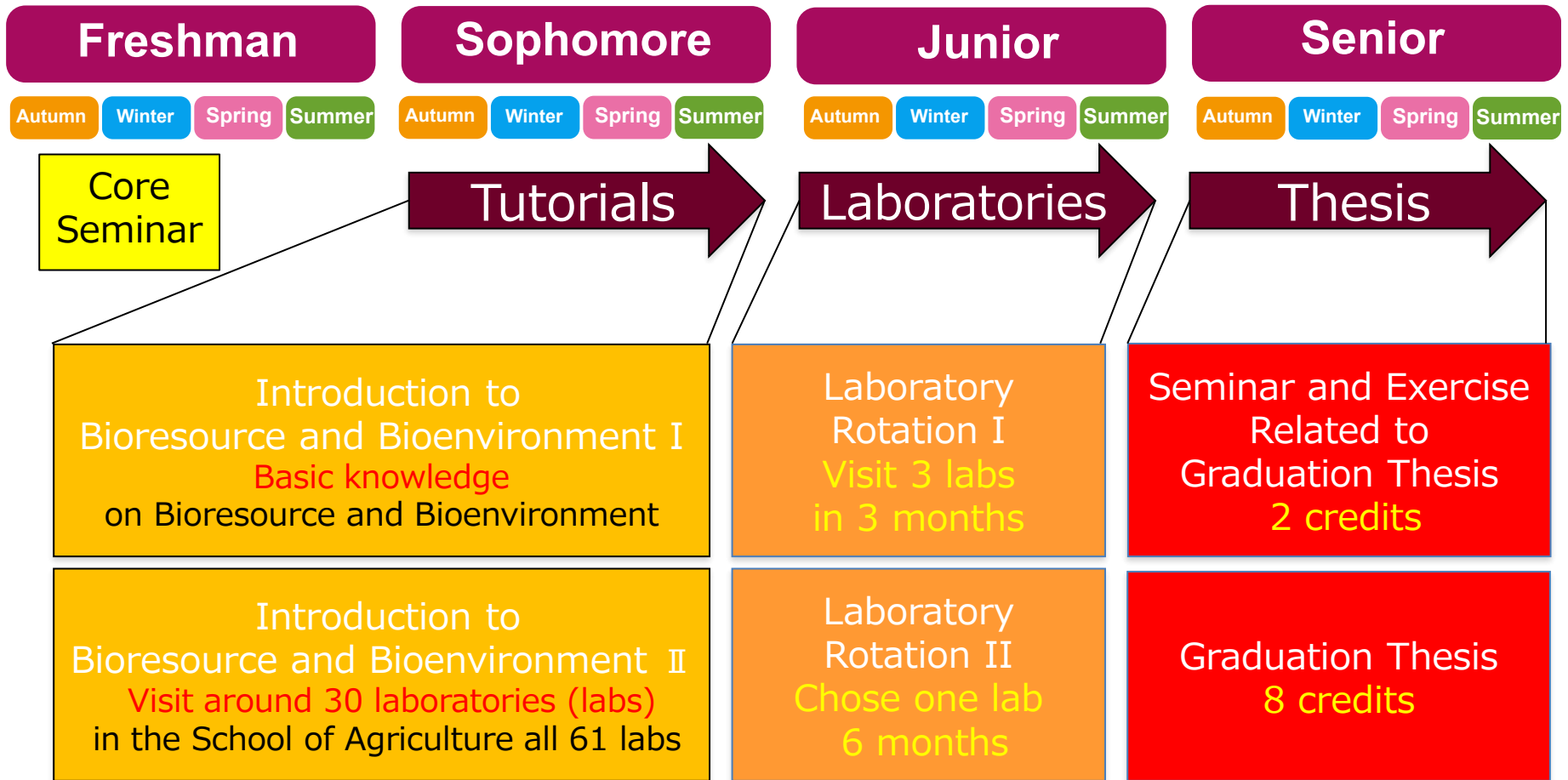
## Bioproduction engineering



## Environmental engineering



In their 4th year students join a research laboratory to carry out their own research project.



A series of seminars and lab visits introduce students to research activities in the faculty of Agriculture so they can select the lab and area of research for their final year-long research project.

# Students can select from over 60 laboratories for their research.

Research covers all aspects of Bioresource and Bioenvironment  
 From Molecular to field studies employing the latest techniques and technologies  
 Basic and applied science research.

- Plant Breeding
- Crop Science
- Horticultural Science
- Plant Production Physiology
- Insect Genome Science
- Zoology
- Entomology
- Plant Pathology
- Insect Pathology & Microbial Control
- Insect Natural Enemies
- Bioresources & Management
- Agroecology
- Environmental Control for Biology
- Tropical Crop and Environment
- Creative Science for Insect Industries
- Sanitary Entomology

- Nutrition Chemistry
- Food Chemistry
- Food Analysis
- Food Process Engineering
- Food Hygienic Chemistry

- Food & Agricultural Policies
- Agricultural & Farm Management
- Quantitative Food Economic Analysis
- Food Marketing & Distribution
- Environmental Economics
- International Agricultural Development

- Agricultural Meteorology
- Agricultural Machinery & Production Systems Design
- Postharvest Science

- Functional Anatomy
- Animal Reproductive Physiology
- Chemistry & Technology of Animal Products
- Regulation in Metabolism & Behavior
- Animal Production & Ecology
- Marine Biology
- Fisheries Biology
- Marine Environmental Science
- Aquatic Field Science
- Animal Life Science
- Aquatic Molecular Developmental Biology
- Developmental Disorders and Toxicology

- Forest Management
- Erosion Control
- Silviculture
- Forest Policy
- Forest Resources Management
- Forest Ecosystem Management
- Plant Metabolic Physiology

- Wood Science
- Wood Material Technology
- Forest Chemistry & Biochemistry
- Bioresources Chemistry
- Biomacromolecular Materials
- Systematic Forest & Forest Products Science
- Biomaterial Design

- Irrigation & Water Management
- Water Environment Engineering
- Environmental Soil Engineering
- Soil Science

- Biochemistry
- Marine Biochemistry
- Marine Resource Chemistry
- Biophysical Chemistry
- Plant Nutrition
- Pesticide Chemistry
- Plant Molecular Biosciences
- Molecular Gene Technology
- Genome Chemistry and Engineering
- Cellular Dynamics

- Molecular Gene Technology
- Cellular Regulation Technology
- Synthetic Biology
- Applied Microbiology
- Microbial Technology
- Soil & Environmental Microbiology
- Functional Genomics & Metabolism
- Bio-Process Design
- Silkworm Bioresources
- Plant Bioresources
- Microbial Bioresources
- Fungal Cell Biology

Visit our website  
for more details



# Admission Information

## Tuition Fees and scholarships





# Admission Procedure for 2022 (Tentative)

STEP 1

Application Period

Jan, 2022

**Check website (autumn 2021) for exact dates**

STEP 2

**Preliminary Screening**

Results Announcement

Comprehensive evaluation of the submitted documents

mid Feb, 2022



STEP 3

**Secondary Screening**

Admission Decisions Announcement

Comprehensive evaluation of the submitted documents and Online interview

Late March, 2022



STEP 4

Enrollment Procedure Deadline

April 18, 2022



**Enrollment: October 1, 2022**



# Application Documents

	Bioresource and Bioenvironment
Application Form	☉
Receipt of Payment of Screening Fee (10,000)	☉
Official High School Transcripts & Graduation Certificate	☉
Score Report of a Standardized Test	☉ EJU, SAT, GCE-A/AS Level, ACT, AP or IB
English Proficiency Test	○ TOEFL/TOEIC/IELTS/Cambri dge ESOL Examinations



# Enrollment and Tuition Fees

Enrollment fee

**282,000JPY**

Annual tuition fee

**535,800JPY**

**267,900JPY**

For the first year, a few selected students in IUPE will be entitled to an exemption of half the tuition fee





# Scholarship Information

## MEXT Japanese government scholarship

**Full Scholarship with Tuition/Enrollment Fee + Round-trip air tickets**

Eligibility

Selected from successful applicants in our international undergraduate programs

Monthly allowance

**117,000** yen per month

**How to apply**

Fill out the scholarship application section of the application form

A MEXT scholarship will pay for all travel and fees, and provide sufficient allowance to cover normal living costs.





# Scholarship Information

## Kyushu University

### International Undergraduate Scholarship for 1<sup>st</sup> year

Eligibility

Selected from successful applicants in our international undergraduate programs  
(MEXT Scholarship recipients are not eligible)

Monthly allowance

**60,000** yen per month

**How to apply**

Fill out the scholarship application section of the application form

Once you are enrolled at Kyushu University, there are also many private scholarships available.

For details, visit:

<http://www.isc.kyushu-u.ac.jp/intlweb/scholarship/view/list.php>

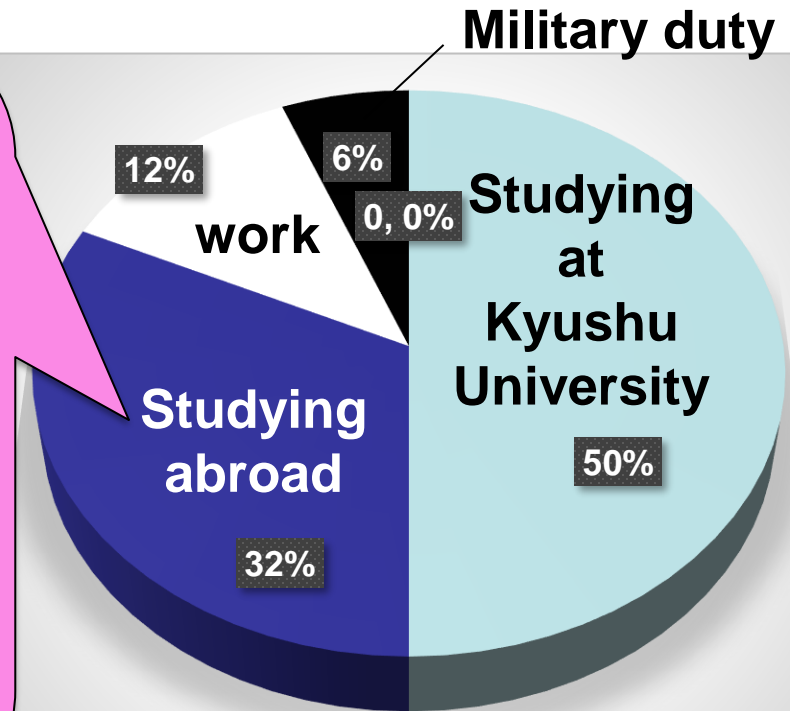
Or you can Google: “**kyushu university scholarship**”



After graduation from bioresource and bioenvironment most students continue their studies in graduate schools



- Imperial College (U.K.)
- Wageningen University (The Netherlands)
- University of Illinois (U.S.A.)
- Technical University of Munich (Germany)
- University of Georgia (U.S.A.)





# Many Careers are possible after graduation

## International Organizations / Government Offices



## Food companies

Eat Well, Live Well.  
**AJINOMOTO.**

**KIRIN**



**SUNTORY**



**Asahi**



## Cosmetics and Pharmaceutical Companies

**SHISEIDO**



**P&G**



## Chemical Companies

## Equipment Companies





# Why study Bioresource and Bioenvironment with us?

KU is one of the top universities in Japan

Study in English / Interact with Japanese students

International staff and students

English speaking support staff

Course offers large choice of specialisations

Small class sizes

Good career prospects





# Thank you for your attention!

To find out more:

Visit our website

<https://www.agr.kyushu-u.ac.jp/english/>



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