**International Undergraduate Program at the Department of Bioresource and Bioenvironment**

Education and research in bioresource and bioenvironment encompass basic, applied and social sciences. This academic program targets the acquisition of extensive knowledge related to bio-production, bio-function and bio-environmental sciences. Students gain the knowledge and skills needed for their professional activities after graduation, enabling them to deliver broad based and balanced solutions to problems in these fields.

**WHY Kyushu University?**

- **An English-based degree program**
- **Friendly instruction in learning in small groups**
- **A new campus**
- **Exciting international social encounters**
- **A high-tech learning environment in Japan**

**Four Year Timeline — Leading up to a Bachelor of Science degree**

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<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
</tr>
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<tbody>
<tr>
<td>First 1 year</td>
<td>Second 2 years</td>
<td>Specialized Education</td>
<td>Graduation Thesis</td>
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</tbody>
</table>

**Current Number of International Students:** 253

- **Undergraduate course:** 40
- **Graduate course:** 194
- **Research students:** 15
- **Special Auditors:** 4

**The Department of Bioresource and Bioenvironment** and Graduate School of Bioresource and Bioenvironmental Sciences both have a long history of educating international students, particularly from Asia, and have produced a number of notable alumni.

**Admissions**


Applications will be accepted at the end of January. Only one application will be allowed in any given year. The evaluation process for the International Undergraduate Program contains two screenings: preliminary and secondary. The preliminary screening is based on a comprehensive evaluation of the documents submitted. The secondary screening will include an interview, a review of submitted documents, and (in some cases) written tests.

**Scholarships**

- **Japanese Government (MONBUKAGAKUSHO: MEXT) Scholarship**
  - A few successful applicants in the International Undergraduate Program who meet the eligibility criteria set by the MEXT may apply for this scholarship.

- **Kyushu University International Undergraduate Scholarships**
  - A few successful applicants (excluding the MEXT Scholarship recipients) may receive this scholarship each year.

**Other Scholarships**


Availability of all scholarships depends on the awarding body and may change in the future.

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**Kyushu University**

**Department of Bioresource and Bioenvironment**

**School of Agriculture**


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**FOREWORD**

"Innovation for Global challenges"

Kyushu University is one of the top universities in Japan (Currently ranked 5 in the TIMES Japan University Rankings in 2018). The Faculty of Agriculture, which celebrates its 180th anniversary in 2019, has a long history of both research and teaching to distribute the knowledge gained to its students. Neither research nor teaching can remain static but have to change and evolve to accommodate new challenges and ideas. Nowhere is this truer than in Bioresources and Bioenvironment where the issues of world population and food security, food and agriculture, water resources, the environment and energy are more significant than ever before. However, these topics are no longer local but are now global concerns. Kyushu University therefore began teaching its degree course in Bioresource and Bioenvironment entirely in English to enable it to spread its knowledge and expertise in the study of natural resources and the environment and their utilisation by humans both to undergraduates from countries outside of Japan and to Japanese students who want the benefits of studying entirely in English for a degree at Kyushu University in a truly international environment where the exchange of views and ideas will encourage the development of the skills and knowledge in a new generation to meet tomorrow’s challenges.

Professor

Susumu Fukuda

Dean, Department of Bioresource and Bioenvironment, School of Agriculture
Establishing the foundations for bioproduction is the key target of this special area. We conduct research and education on various elements of agricultural and forest areas through the utilization and control of natural resources. This research area covers an extensive array of subjects, including those that involve the production, distribution, and manipulation of agricultural resources. Our goal is to explore the best ways to optimize these natural systems. To this end, we have established three institute laboratories, an agricultural system that covers both basic and applied fields. This comprehensive approach to agriculture and environmental sciences allows us to play an important role in fulfilling the increasingly diversified needs of society.

Bioproduction System Engineering

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 we work toward the development of machines related to crop cultivation as the primary step, and then extending to the later stages of post-harvest. This includes research on the processing, storage, and distribution technologies, as well as improvements in the optimization 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 the development and automation. On the utilization and management side, improvements in efficiency using the system engineering approach are being advocated.

Agricultural Economics

Biosciences and Bioenvironmental economics covers the environmental issues involved in the agricultural food systems, including the sustainable development of agricultural systems and regional economies. Addressing these systems requires not only basic knowledge of biosciences and environmental science, but also a deep understanding of natural science and technological knowledge of food, the environment, and consumer behavior, as well as an international awareness. Thus, the research conducted here is a comprehensive subject that covers not only the natural sciences and technological sciences but also research on international economics through close exchanges with students and researchers from Asia, Europe, and America. In this field, we carry out research and studies that seek to clarify the various life phenomena of bioresource organisms from the viewpoint of bio-energy, genetic engineering and many others. We conduct research in a wide range of molecular biosciences, including the structure-function relationships of biomolecules involved in bio-energy, genetic engineering and many others. Therefore, students are required to complete basic subjects in science and technological knowledge of food, the environment, the natural, and 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. Students concentrating on this area will acquire expertise in forest function development science, which comprises silviculture, forest management control science, lignocellulosic resource science, and its peripheral domains.

Forest Environmental and Management Sciences

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, education of forest function 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 forest productivity, public interest, and the natural environment.

Forest and Wood Products

This specialized area covers research on the advanced use of biomaterials, especially wood products. The research topics include advanced physical and chemical utilization of forest biomasses 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. Students concentrating on this area will be able to choose from an array of lectures, experiences, practices, and exercises to further develop their expertise in bioscience and its related areas.