

Entrance on April, 2022

**Interdisciplinary Graduate School of Agriculture and Engineering,
University of Miyazaki
(Doctoral Course)**

Application Guidelines (Secondary Selection)

- 1. General selection**
- 2. Selection for working members of society**
- 3. Selection for overseas students**

September, 2021

**Interdisciplinary Graduate School of
Agriculture and Engineering,
University of Miyazaki**

Admission Policy

(Interdisciplinary Graduate School of Agriculture and Engineering, University of Miyazaki)

1. Education Idea

The Interdisciplinary Graduate School of Agriculture and Engineering aims to cultivate professional engineers who have the high research ability and can play an active part internationally, and to train researchers by implementing the recurrent education. Especially, in the educational and research instruction to students, we aim to cultivate human resources who have the comprehensive judgement based on the wide range of knowledge and can contribute to the technology- and knowledge-based society through previously impossible cooperation between the fields of agriculture and engineering on the basis of academic backgrounds of those fields.

2. Ideal candidates

The Interdisciplinary Graduate School of Agriculture and Engineering, University of Miyazaki is currently accepting applications from highly motivated candidates from throughout Japan and overseas who have a strong desire to further their existing knowledge of both agriculture and engineering in an interdisciplinary setting. Ideal candidates should be seeking to advance their skills and knowledge while utilizing their real-world experience. In conjunction with the research areas pursued by our department, we particularly welcome candidates with research interests in the following fields:

1. Development of a sustainable society with a low environmental impact.
2. Production and utilization of biomass.
3. Build a sustainable society through the design and implementation of appropriate conservation policies and development of suitable community infrastructure.
4. Development of safe and secure systems and promote sustainable biological production methods.
5. Development of new and improved ways of utilizing microorganisms, plants, and animals.
6. Conducting post-genome research in the areas of food production, environment, and health.
7. Development of a sustainable aquaculture methods and effective management of marine resources.
8. Improved design of energy conversion systems through the development of new materials.
9. Development of materials and structural designs for application in manufacturing and engineering industries.
10. Development of new bioinformatics, network, hardware and software technologies.

3. Basic policy of screening

In order to evaluate comprehensively the candidates who have abilities listed above “Ideal candidates” from various perspectives, we will screen candidates based on the basic policy listed below.

1. Entrance examinations to be held several times within the same academic year.
2. Examination format be determined based on the candidate’s status (General Selection, Selection for Working Members of Society or Overseas Students).
3. Application materials will be reviewed and used in combination with examination results to comprehensively evaluate applicants’ abilities, aptitude, and motivation.

[Method of screening and viewpoint of evaluation]

- ① General Selection
- ② Selection for Working Members of Society
- ③ Overseas Students

Each candidate will be evaluated comprehensively by the result of achievement test (oral exam) and the screening of the documents submitted.

According to the both results, we will mainly evaluate their knowledge and skills of his/her major field, ability to think, logicity, expressiveness, and individuality.

Interdisciplinary Graduate School of Agriculture and Engineering, University of Miyazaki

The University of Miyazaki is expanding its characteristic education and research in the interdisciplinary fields of bioscience and environment science flexibly and in various directions. The doctoral course of Interdisciplinary Graduate School of Agriculture and Engineering, founded on the academic disciplines of agriculture and engineering and achievements gained through cooperation between them, aims at educating advanced technical specialists who will contribute to a technology and knowledge-based society. This will deepen and enrich the integrated education and research field which combine agriculture and engineering and fulfill the integrated power of judgment based on breadth of knowledge.

1. Number of Students to Be Admitted

<u>Department</u>	<u>Number</u>
Department of Environment and Resource Science	a few
Department of Applied Biological Science	a few
Department of Materials and Informatics	a few

2. Qualification for Students to Be Admitted

Those who can apply for admittance to the Interdisciplinary Graduate School of Agriculture and Engineering, University of Miyazaki (hereafter referred to as the School) should fall under any of the following conditions:

(1) General Selection

- ① Those who have been awarded a Master's Degree or a Professional Degree or expect to have it awarded by March, 2022.
Those who fall under any of the following conditions should submit the Application Form for Qualification Certificate one month before filing an application:
- ② Those who have been engaged in research at a university, research institute, laboratory of a private enterprise etc. or other institutes for research and development for more than two years at the time of admission, after graduation from university, and were recognized by the School to have an academic achievement equal to or higher than a Master's Degree or a Professional Degree through = documents certifying their research performance (academic thesis, research report, book, patent, etc.). (Refer to the note of Application Form for Qualification Certificate)
- ③ Those who were recognized to have an academic achievement equal to or higher than a Master's Degree or a Professional Degree through an individual qualification certificate for admittance to the School, and will reach 24 years old or older by the end of March, 2022. (Refer to the note of Application Form for Qualification Certificate)

(2) Selection for Working Members of Society

- ① Those who have been awarded a Master's Degree or a Professional Degree in Japan, (including those who have been awarded a degree which is equivalent to a Master's Degree or a Professional Degree abroad), or expect to have it awarded by the end of March, 2022, and after being awarded the degree, have been working in an educational institute, a research institute or a business organization etc, and were recognized to be a good performer by their immediate manager and wish to enroll in the School while working.
Those who fall under any of the following conditions should submit the Application Form for Qualification Certificate one month before filing an application:

- ② Those who have been working in an educational institute, a research institute or a business organization, etc. after graduating from university in Japan or after the completion of a 16-year education course abroad, and during the working years, have been engaged in research at a university, research institute, laboratory of a private organization, or other institutes for more than two years at the time of admission, and were recognized to be a good performer by their immediate manager and wish to enroll in the School while working, and whose academic achievement was recognized by the School to be equal to or higher than a Master's Degree or a Professional Degree through documents certifying their research performance (academic thesis, research report, book, patent, etc.). (Refer to the note of Application Form for Qualification Certificate)
- ③ Those who have been working in an educational institute, a research institute or a business organization, etc. and were recognized to be a good performer by their immediate manager, and wish to enroll in the School while working, and whose academic achievement was recognized by the School to be equal to or higher than a Master's Degree or a Professional Degree through individual examination of qualification for admittance to the School, and will reach 24 years old or older by the end of March, 2022. (Refer to the note of Application Form for Qualification Certificate)

(3) Selection for Overseas Students

- ① Those who have been awarded a degree equivalent to a Master's Degree or a Professional Degree abroad, or expect to have it awarded by March, 2022.
Those who fall under any of the following conditions should submit the Application Form for Qualification Certificate one month before filing an application:
- ② Those who completed a course at a school in a foreign country, a foreign educational institution which has a course of a graduate school, the United Nations University; passed equivalents of a test and screening as set forth in Item 2, Article 16 of the graduate School Establishment Standards; and have achievements equal to or higher than a Master's degree recognized by the School. (Regarding the application, please refer to the Student Office, Faculty of Engineering)
- ③ Those who have been engaged in research at a university, research institute, laboratory of a private enterprise, etc. or other institutes for research and development for more than two years at the time of admission, after the completion of a 16-year education course abroad, and whose academic achievement was recognized by the School to be equal to or higher than a Master's Degree or a Professional Degree through documents certifying their research performances (academic paper, research report, book, patent, etc.). (Refer to the note of Application Form for Qualification Certificate)
- ④ Those who were recognized to have an academic achievement equal to or higher than a Master's Degree or a Professional Degree through an individual qualification certificate for admittance to the School, and will reach 24 years old or older by the end of March, 2022. (Refer to the note of Application Form for Qualification Certificate)

Note of Application Form for Qualification Certificate (Approval for Academic Achievement to be Equal to or Higher than a Master's Degree)

Those who file their application according to the application qualification of ②~③ of (1) General Selection, (2) Selection for Working Members of Society or ③~④ of (3) Selection for Overseas Students should submit the "Application Form for Qualification of Entrance Examination (Form5-(1))", "Personal History for Qualification of Entrance Examination (Form5-(2) or Form5-(3))" and "Certificate of Research Experience (Form5-(4))" (Applicants may use the attached forms or forms equivalent to them), with the documents or copy certifying their research performance to the student office of the Faculty of Engineering (hereafter referred to as Student Office).

Please refer to the attached "Entrance exam schedule".

The results of the Examination of Qualification will be sent to the applicant.

The submitted documents will not be returned under any circumstances.

3. Period for Acceptance of Application Documents: Please refer to the attached "Entrance exam schedule"

- (1) In the case of hand delivery, accepting time is from 9:00 to 17:00. In the case of post mail, the documents should be mailed by registered mail, and reach the office no later than 17:00. As documents not arriving by the acceptance deadline will not be accepted, it is advisable to allow enough time to send the documents, taking postal circumstances into consideration.
- (2) The accepted application documents will not be returned under any circumstance.
- (3) The request for an entrance examination application form is to be made at the Student Office. In the case of request by post mail, a return mail envelope 240 mm x 332 mm in size (kakugata 2-go) and a ¥540 stamp should be enclosed.

	Document necessary for Application for Qualification Certificate	Period for Acceptance of Application Documents
Those who have a Master's Degree or a Professional Degree, or expect to complete their course by March of the application year	Not needed	Please refer to the attached "Entrance exam schedule".
Those who need an Application for Qualification Certificate	"Application (Form5-(1))", (Form5-(2) or Form5-(3))" and (Form5-(4))" (Applicants may use the attached forms or forms equivalent to them)	

4. Application Documents

Application Documents: Summary

<ul style="list-style-type: none"> • Application Form for Entrance Examination 	Fill in the application form listed on website.
<ul style="list-style-type: none"> • Identification Card and Photograph Card 	Fill in the cards listed on website. A photograph, front-facing, upper torso without hat, (L4 cm x W3 cm), taken within three months of the time of application, should be attached on the appointed section.
<ul style="list-style-type: none"> • Personal History (Form 1-(2)) 	The form listed on website or its equivalent should be used.
<ul style="list-style-type: none"> • Research Plan (Form 2) 	Applicants should describe the purpose and concept of the desired subject or field of research within 2,000 words in Japanese (1,200 words in English) on the form listed on website or its equivalent after consulting with the instructor about the subject and field of research, whom the applicant desires to have as a guiding instructor.
<ul style="list-style-type: none"> • Resume of Specialized Work Experience (Form 3-(1)) 	Those who apply for admission based on Special Selection for Working Members of Society should describe their research activities in their organization including job description, academic thesis/research report, academic work, and patent/utility model on the form listed on website or its equivalent.
<ul style="list-style-type: none"> • Study Approval (Form 3-(2)) 	Those who apply for admission based on Selection for Working Members of Society should submit a wax-sealed Study Approval in which their immediate manager, etc. approves them to study in the School while working if they pass the examination.

<ul style="list-style-type: none"> • Letter of Recommendation (Form 3-(3)) 	Those who apply for admission based on Selection for Overseas Students should submit a sealed letter of recommendation prepared by a guidance counselor from their Alma Mater or their immediate manager, etc. at their place of work on the form listed on website or its equivalent. However, it is not required for the students who have completed Master's Course of Graduate Schools of our University.
<ul style="list-style-type: none"> • Summary of Master's Thesis (Form 4) 	Regardless of manner of selection, those who have been awarded a Master's Degree or a Professional Degree or expect to have it awarded by March, 2022, and those who have been awarded a degree equivalent to a Master's Degree or a Professional Degree or expect to have it awarded abroad by March, 2022, should describe a summary of their master's thesis within 2,000 words in Japanese (1,200 words in English) on the form listed on website or its equivalent, and attach a copy of their thesis, academic works, lectures and patents related to the master's thesis, if any.
<ul style="list-style-type: none"> • Certification of the Master's Course or of Expected Completion or Qualification Certificate 	It should be prepared by the principal of the applicant's Alma Mater (Dean of graduate school), (however, it is not required for the applicants who are expected to complete Master's Course of Graduate Schools of our University) or a Qualification Certificate prepared by the School.
<ul style="list-style-type: none"> • Academic Record 	A wax-sealed academic record of undergraduate school and graduate school. The form is not specified.
<ul style="list-style-type: none"> • Copy of the Residence Card 	Foreigners living in Japan should submit a copy of the Residence Card.
<ul style="list-style-type: none"> • Application fee: ¥30,000 	Pay the application fee of ¥30,000 using the request form for remittance issued by our University. However, it is not required for foreign students with government scholarships or those who will have completed Master's Course of Graduate Schools of our University in March, 2022 and advance to the School.
<ul style="list-style-type: none"> • Form to paste Remittance Certificate 	Paste the remittance certificate of application fee (stub C) on a form issued by our University.
<ul style="list-style-type: none"> • Return Mail Envelope 	An envelope (Choukei 3-go, 120 mm x 235 mm) with the applicant's name, address and postal code written, a ¥384 stamp pasted. (However, this is not required for those bringing the application documents by hand.)

Please download the Application form from the url below.

<https://www.miyazaki-u.ac.jp/exam/graduate-exam/selection/noukou.html>

※Please receive Remittance form of Application fee and Form to paste Remittance Certificate at the Student Office, Faculty of Engineering.

Notice: Applicants may fill in the forms issued by the School or their equivalent, excluding Application Form for Entrance Examination, Identification Card and Photograph Card, using a personal computer.

※Except for the following reasons, the Application fee will not be returned: In the case that the screening fee was paid, but no application documents were submitted nor received by the institute, or in the case that the screening fee was paid in duplicate.

How to request a refund of the Application fee

Please submit the refund request form (Please write reason, name, address, telephone and information of bank account on any format) and the remittance certificate of application fee (stub C) to Accounting Section by March 31, 2022. The bank charge of return must be paid by applicant.

Accounting Section, Financial Division, University of Miyazaki
1-1, Gakuen Kibanadai-nishi, Miyazaki, 889-2192
Tel. 0985-58-7122

5. Manner of Selection

(1) General Selection

The selection is conducted through an academic achievement test and documentary examination. The academic achievement test is performed through an oral examination. ※

The oral examination is able to be conducted by a teleconferencing system for those who have been enrolled in the university that has signed an exchange agreement with University of Miyazaki.

If you prefer to take the oral examination by this teleconferencing system, please apply through your expected supervisors before submitting documents for admission.

(2) Selection for Working Members of Society

This selection is conducted through an academic achievement test and documentary examination. The academic achievement test is performed through an oral examination. ※

The “Selection of Short-term Courses” is prepared for the applicants, who already have respectable research papers and been assessed that they will most likely be completing their doctor’s thesis within one or two years at the preliminary review. The applicants who desire to apply to this system should ask a supervisor and confirm the documents required and deadline for submission. (For details, please refer to the Student Office, Faculty of Engineering).

(3) Selection for Overseas Students

This selection is conducted through an academic achievement test and documentary examination. The academic achievement test is performed through an oral examination. ※

The oral examination is able to be conducted by a teleconferencing system for those who have been enrolled in the university that has signed an exchange agreement with University of Miyazaki.

If you prefer to take the oral examination by this teleconferencing system, please apply through your expected supervisors before submitting documents for admission.

※Due to the prevention of the spread of the covid-19 infection, applicants who reside outside of Japan or those who reside in Japan and cannot take the entrance examination at the university for unavoidable reasons may take the entrance examination online using Zoom or Webex. If you wish to take the examination online, consult with your primary preferred major advisory professor at the time of application.

Contents of Oral Examination (approximately 30 minutes per applicant)

The oral examination concerns the research achievement of a Master’s thesis or its equivalent (research career for Working Members of Society) (approximately 15 minutes) and research planning after being admitted (approximately 5 minutes), after that, Questions and Answers (approximately 10 minutes).

※Please make a presentation by using the LCD projector. Applicants should prepare for their PC and connect it to the projector by themselves.

6. Examination Schedule and Locations:

Examination Schedule and Locations, please refer to the attached "Entrance exam schedule".	Oral examination	Faculty of Engineering, University of Miyazaki (1-1, Gakuen Kibanadai-nishi, Miyazaki)
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Applicants will be informed of their examination room, etc. after their application is accepted, and this information will also be posted around the entrances of lecture buildings of the Agriculture and Engineering Faculties on the day of the examination.

7. Preliminary Consultation for the Applicants who have disabilities

The applicants, who have physical disabilities and require special assistance during entrance examinations as well as special considerations in the course of their studies, should consult with the admissions office before submitting the application documents. (Regarding the degree of disability, please refer to Article 22, Paragraph 3 of the Enforcement Ordinance of the School Education Act).

(1) Consultation Period

Consultation Period, please refer to the attached "Entrance exam schedule".

However, consultations by applicants who incur disabilities caused by accident after Application period will be allowed.

(2) Consulting Method

Download the application form for consulting from the University website, and fill out the form with the following items and submit it with a doctor's certificate (submission by mail is also accepted):

- ①. Desired major and courses
- ②. Type and degree of disability
- ③. The need for special assistance and considerations in entrance examinations and in the course of studies.
- ④. Special measures and considerations taken in the previous school
- ⑤. Daily living situation
- ⑥. Address and telephone number

Depending upon the circumstances, it may be necessary to interview the applicants or their representatives. (*Website: <http://www.miyazaki-u.ac.jp/exam/exam/1789-2>)

(3) Contact Address for Consultation

Admissions Office, Student Affairs Division, University of Miyazaki
1-1, Gakuen Kibanadai-nishi, Miyazaki, 889-2192
Tel. 0985-58-7138 FAX. 0985-58-2865

Consultation example	
Visually Impaired	Visually impaired individuals are those whose eyesight are less than 0.3 in both eyes or who have a serious visual impairment other than visual acuity, such that they find it impossible or considerably difficult to visually distinguish words and diagrams even with the use of a magnifying glass.
Hearing-Impaired	Hearing-impaired individuals are those whose hearing is limited to sounds of 60 decibels and up, and who find it impossible or considerably difficult to make out a normal speaking voice even with the use of a hearing aid.
Physically Disabled	1. Physically disabled individuals are those who find it impossible or considerably difficult to walk without an assistive device or to engage in basic daily activities like note-taking. 2. Physically disabled include those whose disabilities are not as severe as the disabilities described in 1, but who nevertheless require constant medical observation and supervision.
Sickly	1. Sickly individuals are those who with chronic respiratory illness, kidney disease, nervous disorders, malignant neoplasms, or other chronic medical conditions, and require medical treatment or a regulated lifestyle. 2. Sickly individuals also include those with chronically weak constitutions who require a regulated lifestyle
Developmental Disabilities	Individuals for whom special measures are required due to autism, Asperger's syndrome, learning disabilities, or attention deficit hyperactivity disorder.
Other	Disabled individuals include those who do not fall into the above consultation but have impairments that are serious enough to require special consideration in order to study and take exams.

*Note: These definitions are based on those stated in the School Education Enforcement Ordinance, Article 22, Part 3, and in the Support for Persons with Developmental Disabilities Act, Article 2, Part 1.

8. Announcement of Admission Results

Admission results will be posted in front of the Student Office of Engineering Department, date of Admission Results(10:00 a.m.) and, at the same time, an acceptance letter will be sent to the successful applicants. Any inquiry into admission results by telephone, etc. cannot be responded to.

Date of Admission Results, please refer to the attached "Entrance exam schedule".

9. Others

(1) Entrance Fee: ¥282,000

Tuition (one semester): ¥267,900 (¥535,800 a year)

The above information is subject to change according to revision.

- *1. Foreign students with government scholarships or those who will have completed the Master's Course of Graduate School of our University in March, 2022 and advance to the School are exempted from the entrance fee.
- *2. Foreign students with government scholarships are exempted from tuition.

10. The Management of Personal Information

1. The personal information at University of Miyazaki is handled securely and appropriately in compliance with the relevant laws and Rules for Protection of Personal Information.
2. The names of individuals, their addresses and other personal information provided by them in connection with applications and admissions procedures will be used for the following purposes:
 - (1) Conducting entrance examinations (processing applications, conducting examinations),
 - (2) Announcing successful candidates,
 - (3) Enrollment procedures,
 - (4) Administering, communicating and carrying out procedures concerning academic affairs,
 - (5) Administering, communicating and carrying out procedures concerning students affairs (health-care, support for employment, tuition waiver, scholarships),
 - (6) Collection of tuitions and fees and
 - (7) Conducting other functions related to all or some of the preceding items listed above.
3. Entrance exam score will be used as investigation and research material for applicant selection at the university.
4. University of Miyazaki may outsource some of the above operations 2 and 3.

11. Contact Information

Interdisciplinary Graduate School of Agriculture and Engineering
Student Office, Faculty of Engineering, University of Miyazaki
1-1, Gakuen Kibanadai-nishi, Miyazaki, 889-2192
Tel: (0985)58-7870 (Dial-in), FAX: (0985)58-7287
E-mail: noukou@of.miyazaki-u.ac.jp

12. Full-Time Teaching Staff and Main Research Theme

Department	Course	Position	Advisor	A main research theme
Department of Environment and Resource Science	Course of Environmentally Harmonized Technology and Science	Professor	Yasuyuki ISHII	Environmentally harmonized forage production in the arable lands and grasslands
		Professor	Satoshi ITO	Biodiversity conservation in managed forests
		Professor	Sachiko IDOTA	Cropping system and fertility management in the arable lands and grasslands
		Professor	Mitsuteru IRIE	Water resources management and river environment restoration
		Professor	Tetsuro UDATSU	Research on historical transition of environmentally harmonized rice cultivation techniques in east asia.
		Professor	Tatsuya OSHIMA	Development of sustainable for bioconjugates
		Professor	Ichiro KAMEI	Functional studies of forest microorganism for the conversion of wood biomass and for the development of bioremediation technology
		Professor	Yoshio KIJIDANI	Studies on xylem formation of trees and the variation of wood properties
		Professor	Minoru KUMANO	Studies on sustainable development methods, disaster prevention and landscape in regional and urban planning
		Professor	Koichiro SHIOMORI	Development of functional microcapsules for environmentally benign agrochemicals
		Professor	Osamu SHIMIZU	Sediment dynamics in upstream basin and mitigation of sediment disasters
		Professor	Daisuke SUETSUGU	Soil stabilization and long-term durability of improved ground
		Professor	Yoshihiro SUZUKI	Conservation of water quality and development of restoration technology on water environment
		Professor	Masahiro TAKAGI	Matterflow of forest ecosystem
		Professor	Masahiro TASUMI	Water resources management using satellite remote sensing
		Professor	Yutaka DOTE	Recycle of livestock excrement
		Professor	Manabu TOBISA	Analysis of soil microorganism - plant interface in grassland systems
		Professor	Aya NISHIWAKI	Study of ecological farming system to solve a conflict between production and bio-diversity conservation
		Professor	Ichiro FUJIKAKE	Forest management and regional forestry for timber production that is consistent with the conservation of the forest environment
		Professor	Yasushi MITSUDA	Forest planning for multiple functions of forest
		Professor	Keisuke MURAKAMI	Study on coastal disaster mitigation against sea waves
		Professor	Chihiro MORITA	Study on structural analysis and soundness evaluation of steel bridges
		Professor	Naoyuki YAMAMOTO	Economical evaluation on environmentally harmonized recycling system of biomass resources
		Associate Professor	Kaoru OHE	Development of removal technology of harmful components on water environment
		Associate Professor	Hideyuki KANO	Economic analysis of sustainable food system
		Associate Professor	Rin SAKURAI	Infrastructures and operations of forestry
		Associate Professor	Yoshinori SHINOHARA	Hydrological cycle and erosion control
		Associate Professor	Hiroshi SHIMAMOTO	Research on evaluation methods for sustainable transportation system
		Associate Professor	Tomoo SEKITO	Recycling and environmental impact of residue from solid waste management
		Associate Professor	Shinichi TAKESHITA	The study on evaluation of water and climate resources in the basin
		Associate Professor	Hidenori TANAKA	Plant genomic diversity and its application to molecular breeding
		Associate Professor	Kousuke TOSHIKI	Studies on the Environmental Impact of Waste Management and Recycling System
		Associate Professor	Kei NUKAZAWA	Development of an assessment technique for conserving riverine environments and biodiversity
		Associate Professor	Ryoko HIRATA	Wildlife management in forest landscape
		Associate Professor	Yoshinori FUKUBAYASHI	Studies on road disaster prevention/mitigation measures and rural infrastructure development through reinforcing soil material properties
		Associate Professor	Hideki MATSUNE	Study on the synthesis of nanomaterials for sustainable developments
		Associate Professor	Chunhe LI	Studies on the development and evaluation of high performance concrete
		Assistant Professor	Genki ISHIGAKI	Production of grass and legume plants and the utilization for livestock in temperate zone
		Assistant Professor	Asuka INADA	Development of environmentally symbiotic metal-organic framework using biomolecules
		Assistant Professor	Takahiro GONDO	Molecular breeding of forage plants and its biodiversity risk assessment
Assistant Professor	Taku TSUYAMA	Biosynthesis of cell wall, tissue formation, and growth mechanism of forest plant		
Assistant Professor	Etsuko HARADA	Production and functional study of edible and medicinal mushrooms		

Department	Course	Position	Advisor	A main research theme
Department of Environment and Resource Sciences	Course of Sustainable Agricultural Technology and Science	Professor	Tomoyuki KAWASHIMA	Feed resources and global environment
		Professor	Satoshi KAWAHARA	Quality evaluation and improvement of animal products from the viewpoint of food science and nutrition
		Professor	Hisato KUNITAKE	Genetics and breeding in the fruit genetic resources
		Professor	Yuichi SAEKI	Genomic and molecular ecology of soybean-nodulating rhizobia
		Professor	Kazufumi ZUSHI	Improvement of nutritional and organoleptic qualities of horticultural products
		Professor	Minoru TAKESHITA	Studies on plant-virus interactions and control of plant virus diseases
		Professor	Yasuhiro TSUZUKI	Study on the reproduction in animal production for agricultural technology and science
		Professor	Takuya TETSUMURA	Research on development of environmentally-friendly pomiculture
		Professor	Takashi YUASA	Environmental stress tolerance and nutrient signaling in plants
		Associate Professor	Tetsuya ADACHI	Biological control-based integrated pest management
		Associate Professor	Atsushi IGUCHI	Genomic diversity of bacteria and its application to the molecular epidemiological analysis
		Associate Professor	Takafumi ISHIDA	Genetic improvement for livestock animals by animal breeding and genetics
		Associate Professor	Takehito INABA	Mechanism of plastid biogenesis in plant cell
		Associate Professor	Yasuko INABA	The underlying mechanism for floral thermogenesis and its application to horticultural production
		Associate Professor	Osamu KINOSHITA	Safety and comfort of farm work
		Associate Professor	Shinsuke SAKAMOTO	Studies on behavior and ecology of livestock, zoo animals, and wildlife, and management of their environments
		Associate Professor	Yosuke SASAKI	Epidemiological study to improve productive efficiency in livestock
		Associate Professor	Toshihiro TAKAHASHI	Research on animal nutrition and nutritional control in animal production
		Associate Professor	Tomonori NAKANISHI	Studies on functional components of animal products
		Associate Professor	Tomonari HIRANO	Studies on sexual reproduction in horticultural plants
		Associate Professor	Chitose HONSHO	Introduction and sustainable production of tropical fruits in response to climate change
		Associate Professor	Jyunichiro MASUDA	Studies on underlying mechanisms of storage organ formation and its accompanied dormancy in geophytes
		Associate Professor	Akihiro YAMAMOTO	Physiology and biochemistry of plant production under various environmental conditions
		Assistant Professor	Nobuya TAKAHASHI	An application of the optimal control to the robust control problem
		Assistant Professor	Tadaaki TOKUNAGA	Establishment of superior livestock population
		Assistant Professor	Kenji HIYOSHI	Mechanization and automatization of agricultural works by using production environment data

Department	Course	Position	Advisor	A main research theme
Department of Applied Biological Science	Course of Bioscience and Biotechnology	Professor	Hiroyuki SAKAKIBARA	Chrono-functional study on food factors
		Professor	Yoichi SAKAKIBARA	Functional characterization of proteins using proteome technology
		Professor	Hidemi HATTORI	Development of novel biomedical materials using biomass and its application
		Professor	Masao YAMASAKI	Research in functional lipids for our health
		Professor	Toshifumi YUI	Three dimensional structure studies of biopolymers and their functional properties
		Professor	Naoto YOSHIDA	Application of microbes for biotechnology and bioremediation
		Associate Professor	Takanori IDA	Searching for novel bioactive peptides
		Associate Professor	Nozomu ETO	Suppression of the inflammatory reaction due to cellular senescence
		Associate Professor	Katsuhisa KUROGI	Study on enzymes responsible for the metabolism of physiologically active compounds
		Associate Professor	Kazuhiro SUGAMOTO	Synthesis and evaluation of bioactive natural products
		Associate Professor	Kazuo NISHIYAMA	Chemical structures and physiological activities of food constituents
		Associate Professor	Jun HIROSE	Structure of bacterial genome and evolution of bioconversion function
		Associate Professor	Yumi YAMASAKI	Research on food function
		Assistant Professor	Takuya UTO	Three-dimensional structure and molecular dynamics of biopolymers: Theoretical study
		Assistant Professor	Munetoshi MIYATAKE	Analysis of microbial functions and its application for bioremediation
		Department of Applied Biological Science	Course of Marine Biological Science	Professor
Professor	Katsuhisa UCHIDA			Growth and reproductive physiology and their endocrine regulations in aquatic animals
Professor	Masahiro SAKAI			Molecular immunology in fish and shrimp
Professor	Ryusuke TANAKA			Research on advanced utilization of aquatic food
Professor	Naoki NAGANO			Research and development in aquaculture
Professor	Masahiro HAYASHI			Research on the utilization of functional compound in marine organisms
Professor	Junichi HIKIMA			Study on mechanism of innate immunity in the marine organisms
Professor	Terutoyo YOSHIDA			Studies on infectious diseases in fish
Associate Professor	Tomoya KOHNO			Immunoregulation by biological response modifiers in aquatic animals
Associate Professor	Yousuke TAOKA			Ecosystem and diversity of microorganisms in marine environment and the advanced utilization
Assistant Professor	Atsunobu MURASE			Ecology in shoreline environments including estuarine ecosystem
Associate Professor	Hironobu FUKAMI			Biology, taxonomy, systematics and population genetics of corals
Associate Professor	Nina YASUDA			Population genetic structure and molecular evolution of aquatic invertebrates
Associate Professor	Urbanczyk Henryk			Evolution and diversity of marine bacteria

Department	Course	Position	Advisor	A main research theme
Department of Materials and Informatics	Course of Advanced Materials and Energy	Professor	Akinori IGARASHI	Theoretical research for atomic collisions
		Professor	Yuji OKUYAMA	Ionic transport properties of oxides and its application to electrochemical cells
		Professor	Go SAKAI	Development of highly active electrocatalysts for polymer electrolyte fuel cells
		Professor	Tatsuya SAKODA	Studies on effective usage of electric energy
		Professor	Tsutomu SHIRAGAMI	Studies on development of novel photofunctional materials by using metal complexes
		Professor	Kensuke NISHIOKA	Fabrication of high quality semiconductor devices
		Professor	Isamu HATSUKADE	X-ray observational study of clusters of galaxies
		Professor	Atsuhiko FUKUYAMA	Characterization of optical properties in quantum nano-structure semiconductors and their device application
		Professor	Kouji MAEDA	Characterization of optical and structural properties in phosphor materials and semiconductor films
		Professor	Tatsuro MATSUDA	Study of hadron structure and spectroscopy
		Professor	Koji MORI	Studies of the energy cycle in our galaxy with multi-wavelength observations
		Professor	Makoto YAMAUCHI	Energy transformation in astrophysical phenomena
		Professor	Atsushi YOKOTANI	Research and development of application of high energy and high intensity light source
		Professor	Kenji YOSHINO	Study of characterization on chalcopyrite semiconductor
		Associate Professor	Masakazu ARAI	Studies on optical sensing device and crystal growth
		Associate Professor	Kengo INOUE	Electricity generation and bioremediation by microorganisms
		Associate Professor	Masanori KAKU	Laser-produced-plasma emission sources in the extreme ultraviolet spectral region
		Associate Professor	Masahito KATTO	Development of high intensity lasers and their applications
		Associate Professor	Kentaro SAKAI	Fabrication and characterization of novel functional semiconductor materials
		Associate Professor	Hidetoshi SUZUKI	Study on new materials for super high efficiency multi-junction concentrator photovoltaic
		Associate Professor	Akira NAGAOKA	Study on high efficiency hybrid photovoltaic and thermoelectric device
		Associate Professor	Yu NABETANI	Photochemistry of molecular assembly coupled with the surrounding microenvironment
		Associate Professor	Yukie MAEDA	Experimental study of the few-body effects in the nuclear physics
		Associate Professor	Naoki MATSUNAGA	Study of structural ceramics with biocompatibility
		Associate Professor	Jin MATSUMOTO	Study on synthesis and self-assembly of photofunctional amphiphiles
		Assistant Professor	Yasuyuki OHTA	Development of Technology for Advanced Utilization of Solar Power and Light Concentrating System
		Assistant Professor	Akihiro KAMEYAMA	Fabrication of optical fiber sensors
		Assistant Professor	Shoichiro NAGATA	A study on eddy current nondestructive evaluation for complicated shape

Department	Course	Position	Advisor	A main research theme
Department of Materials and Informatics	Course of Production Technology	Professor	Naonobu OKAZAKI	Research on secure networking
		Professor	Tetsuro KATAYAMA	Study on supporting methods to generate software and methods to improve its reliability
		Professor	Kikuhito KAWASUE	Three-dimensional measurement and calibration for production engineering
		Professor	Ryusuke KAWAMURA	Research of methods of thermal stress analysis and its application to clarification of behaviors in solid mechanics and assessment of structural integrity
		Professor	Byeongrog SHIN	Research on the advanced design and development of turbomachinery and fluid devices
		Professor	Gang DENG	Fatigue strength evaluation for machine elements
		Professor	Yoshinori NAGASE	Study on solar thermal energy
		Associate Professor	Kentaro ABURADA	Applied System in Computer Networking
		Associate Professor	LEE Geunho	Convergence of robotics and IoT
		Associate Professor	Satoshi IKEDA	Optimization of probabilistic algorithms
		Associate Professor	Osamu OHNISHI	Study on micro and precision machining
		Associate Professor	Hiroyuki KINOSHITA	Development of composite materials made by recycling glass fibers in waste
		Associate Professor	Yasuhiro BONKOBARA	Development of a mechanical system using nonlinear vibration phenomena
		Associate Professor	Go YAMAKO	Research and development of medical device based on biomechanical engineering
		Assistant Professor	Hitonobu KOIKE	Study on tribology for polymer mechanical elements
		Assistant Professor	Hisaaki YAMABA	Computer support systems for design and operation of production systems
		Department of Materials and Informatics	Course of Computer Science and Bio-informatics	Professor
Professor	Ryusuke KON			Study on mathematical modelling and analysis of biological phenomena
Professor	Makoto SAKAMOTO			Automaton and computational complexity
Professor	Hiroki TAMURA			Study on the human interface using biological signals
Professor	Koichi TANNO			Research on high performance analog integrated circuits
Professor	Thi Thi Zin			Image processing and its applications - Human behavior analysis and monitoring systems, image search systems, big data analysis -
Professor	Ichijo HODAKA			Theory and control of power electronics for renewable energy system
Professor	Masayuki MUKUNOKI			Computer vision, image understanding and video media processing
Professor	Kunihito YAMAMORI			Parallel processing and applications on neural network and evolutionary computing
Professor	Mitsuhiro YOKOTA			Study on analysis and design of photonic waveguides by numerical techniques
Associate Professor	Kenji AOKI			Research on visual information processing mechanism by computational science
Associate Professor	Hirofumi IZUHARA			Pattern formation in reaction-diffusion systems
Associate Professor	Kentaro INOUE			Research on bioinformatics analysis for signal transduction systems
Associate Professor	Morimichi UMEHARA			Mathematical analysis of the compressible viscous fluid motion
Associate Professor	Amane TAKEI			Development of high-performance numerical analysis method and effective utilization technique
Associate Professor	Akira DATE			Research on mathematical models of learning and self-organization
Associate Professor	Yoshihiro NAKA			Numerical Analysis and Design of Passive Optical Communication Devices
Associate Professor	Hiroki MATSUMOTO			Low voltage switched-capacitor digital-to-analog converter
Associate Professor	Masahiro YOKOMICHI			Research on autonomous mobile robots and computer vision with information engineering approach
Assistant Professor	Tsubasa ITOH			Research on the flow phenomena based on the potential theory