

Entrance on April, 2018

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

Application Guidelines

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

September, 2017

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

Admission Policy

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

I. 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.

II. Basic selection policy

Successful candidates will be selected on merit based on the evaluation procedures outlined below. Candidates' academic records, research history, intended period of study, and other factors will also be taken into consideration.

Evaluation Procedures

1. Entrance examinations to be held several times within the same academic year.
2. Examination format to 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.

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, 2018.

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, 2018. (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, or awarded a degree equal to or higher than a Master's Degree or a Professional Degree abroad, and after being awarded the degree, have been working in a business organization etc, as a full-time employee 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 a business organization, etc. as a full time employee 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 a business organization, etc. as a full-time employee, was 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, 2018. (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, 2018.
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, 2018. (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 ¥530 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 attached to this brochure |
| <ul style="list-style-type: none"> • Identification Card and Photograph Card | Fill in the cards attached to this brochure. 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 attached to this brochure 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 attached to this guidance 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 attached to this guidance 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. |

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| <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 wax-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 attached to this guidance or its equivalent. |
| <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, 2018, 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, 2018, should describe a summary of their master's thesis within 2,000 words in Japanese (1,200 words in English) on the form attached to this guidance 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, 2017 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 codewritten, a ¥372 stamp pasted. (However, this is not required for those bringing the application documents by hand.) |

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 typewriter or word processor.

※Except for the following reasons, the screening 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.

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.

(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.

Contents of Oral Examination (approximately 30 minutes per applicant)

- The oral examination for General Selection concerns the research achievement of a Master’s thesis or its equivalent, tasks relating to the applicant’s desired field and research planning after being admitted.
- The oral examination for Working Members of Society concerns the research achievement of a Master’s thesis or its equivalent, tasks relating to the applicant’s desired field, research career and research planning after being admitted.
- The oral examination for overseas students concerns the research achievement of a Master’s thesis or its equivalent, tasks relating to the applicant’s desired field and research planning after being admitted.

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 Kihanadai-nishi, Miyazaki) |
|--|------------------|---|

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 this 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

| Category | Disability Criteria |
|----------------------------|--|
| 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 categories 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 at the entrance of the Agriculture Department and 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, 2018 and advance to the School are exempted from the entrance fee.
- *2. Foreign students with government scholarships are excepted 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 | Ryo AKASHI | Plant genetic resources and biotechnology |
| | | Professor | Yasuyuki ISHII | Environmentally harmonized forage production in the arable lands and grasslands |
| | | Professor | Satoshi ITO | Biodiversity conservation in managed forests |
| | | Professor | Hitone INAGAKI | Research on the optimal design of environmentally harmonized water supply structure in watershed material-recycling system |
| | | 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 | Ichiro KAMEI | Functional studies of forest microorganism for the conversion of wood biomass and for the development of bioremediation technology |
| | | Professor | Takeshi KAMEI | Studies on the contribution to building a sustainable society by recycling of industrial wastes, geotechnical engineering for ground disaster mitigation and rehabilitation |
| | | Professor | Yoshio KJIDANI | Studies on xylem formation of trees and the variation of wood properties. |
| | | 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 | 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 | Aya NISHIWAKI | Study of ecological farming system to solve a conflict between production and bio-diversity conservation |
| | | Professor | Masahiko HIRATA | Analysis of plant-animal-soil-environment systems |
| | | Professor | Ichiro FUJIKAKE | Forest management and regional forestry for timber production that is consistent with the conservation of the forest environment |
| | | Professor | Yoichi MATSUSHITA | Studies on separation, chemical transformation, and chemical utilization of components of wood and herbage biomass |
| | | 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 | Sachiko IDOTA | Cropping system and fertility management in the arable lands and grasslands |
| | | Associate Professor | Tatsuya OSHIMA | Development of sustainable for bioconjugates |
| | | Associate Professor | Hideyuki KANO | Economic analysis of sustainable food system |
| | | Associate Professor | Rin SAKURAI | Infrastructures and operations of forestry |
| | | Associate Professor | Hiroshi SHIMAMOTO | Research on evaluation methods for sustainable transportation system |
| | | Associate Professor | Tomoo SEKITO | Recycling and environmental effect of residue from solid waste management |
| | | Associate Professor | Shinichi TAKESHITA | The study on evaluation of water and climate resources in the basin |
| | | Associate Professor | Manabu TOBISA | Analysis of soil microorganism - plant interface in grassland systems |
| | | Associate Professor | Chunhe LI | Studies on the development and evaluation of high performance concrete |
| Senior Assistant Professor | Ryoko HIRATA | Wildlife management in forest landscape | | |
| Assistant Professor | Kaoru OHE | Development of removal technology of harmful components on water environment | | |
| Assistant Professor | Takahiro GONDO | Molecular breeding of forage plants and its biodiversity risk assessment | | |
| Assistant Professor | Kei NUKAZAWA | Development of an assessment technique for conserving riverine environments and biodiversity | | |

| Department | Course | Position | Advisor | A main research theme |
|--|---|---|---------------------|---|
| Department of Environment and Resource Science | Course of Sustainable Agricultural Technology and Science | Professor | Seiji IEIRI | Study on the interaction between animal and environment using bio-economic models |
| | | Professor | Kazuro OHNO | A study of sustainable pest management with conservation biological control |
| | | 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 | 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 | Yosuke SASAKI | Epidemiological study to improve reproductive 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 | Akihiro YAMAMOTO | Physiology and biochemistry of plant production under various environmental conditions |
| | | Senior Assistant Professor | Shinsuke SAKAMOTO | Studies on behavior and ecology of livestock, zoo animals, and wildlife, and management of their environments |
| Assistant Professor | Nobuya TAKAHASHI | An application of the optimal control to the robust control problem | | |
| Assistant Professor | Tadaaki TOKUNAGA | Establishment of superior livestock population | | |

| 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 | Masanobu SAKONO | Regulation of lipid metabolism by food ingredients |
| | | Professor | Masao YAMASAKI | Research in functional lipids for our health |
| | | Professor | Toshifumi YUI | Three dimensional structure studies of biopolymers and their functional properties |
| | | Professor | Haruhiko YOKOI | Production of useful materials and protection of environment using microbial functions |
| | | 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 | Kazuhiro SUGAMOTO | Synthesis and evaluation of bioactive natural products |
| | | Associate Professor | Kazuo NISHIYAMA | Chemical structures and physiological activities of food constituents |
| | | Associate Professor | Hidemi HATTORI | Development of novel biomedical materials using biomass and its application |
| | | Associate Professor | Jun HIROSE | Study on the function of aromatic-ring dioxygenase |
| | | Assistant Professor | Katsuhisa KUROGI | Study on enzymes responsible for the metabolism of physiologically active compounds |
| | | Assistant Professor | Munetoshi MIYATAKE | Analysis of microbial functions and its application for bioremediation |
| Department of Applied Biological Science | Course of Marine Biological Science | Professor | Toshiaki ITAMI | Studies on bio-defense factors and its applied technologies for aquatic animals health management |
| | | Professor | Yukio IWATSUKI | Fish diversity, taxonomy, resource, ecology and conservative biology |
| | | Professor | Katsuhisa UCHIDA | Growth and reproductive physiology and their endocrine regulations in aquatic animals |
| | | Professor | Hirohiko KAGAWA | Basic studies on fish reproductive physiology and its application to aquaculture |
| | | Professor | Masahiro SAKAI | Molecular immunology in fish and shrimp |
| | | Professor | Ryusuke TANAKA | Research on advanced utilization of aquatic food |
| | | Professor | Hideo HATATE | Functional characteristics and utilization of aquatic bioresources |
| | | Professor | Masahiro HAYASHI | Research on the utilization of functional compound in marine organisms |
| | | Professor | Terutoyo YOSHIDA | Studies on infectious diseases in fish |
| | | Associate Professor | Tomoya KAWANO | Immunoregulation by biological response modifiers in aquatic animals |
| | | Associate Professor | Yousuke TAOKA | Ecosystem and diversity of microorganisms in marine environment and the advanced utilization |
| | | Associate Professor | Junichi HIKIMA | Study on mechanism of natural immunity in the marine organism |
| | | 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 |
| Assistant Professor | Atsunobu MURASE | Ecology in shoreline environments including estuarine ecosystem | | |

| 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 | Akihiko OHSAKI | Atomic and molecular processes in plasmas |
| | | Professor | Hiroshi KANEKO | Solar thermochemistry for fuel production and heat storage |
| | | 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 | Noriyuki HAYASHI | Advanced electric power system engineering |
| | | Professor | Atsuhiko FUKUYAMA | Nonradiative investigation of optical properties of semiconductor thin layers |
| | | 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 | 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 by microbial fuel cells |
| | | Associate Professor | Yuji OKUYAMA | Ionic transport properties of oxides and its application to electrochemical cells |
| | | 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 | 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 |
| | | Associate Professor | Koji MORI | Studies of the energy cycle in our galaxy with multi-wavelength observations |
| | | 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 | 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 | Osamu SATO | Study about optimal control of manipulator |
| | | Professor | SHIN Byeongrog | Research on engineering application of fluid mechanics |
| | | Professor | Gang DENG | Fatigue strength evaluation for machine elements |
| | | Professor | Ichijo HODAKA | Theory and control of power electronics for renewable energy system |
| | | Associate Professor | LEE Geunho | Convergence of robotics and IT |
| | | Associate Professor | Satoshi IKEDA | Optimization of probabilistic algorithms |
| | | Associate Professor | Osamu OHNISHI | Study on micro and precision machining |
| | | Associate Professor | Akira KAKAMI | Design and performance evaluation of space propulsion devices and their smart thrust-measurement system |
| | | Associate Professor | Tetsuro KATAYAMA | Study on supporting methods to generate software and methods to improve its reliability |
| | | Associate Professor | Hiroyuki KINOSHITA | Development of composite materials made by recycling glass fibers in waste |
| | | Associate Professor | Yoshinori NAGASE | Study on heat transfer on combustion chamber wall of engine |
| | | Associate Professor | Yasuhiro BONKOBARA | Development of a mechanical system using nonlinear vibration phenomena |
| Department of Materials and Informatics | Course of Computer Science and Bio-informatics | Assistant Professor | Go YAMAKO | Research and development of medical device based on biomechanical engineering |
| | | Assistant Professor | Hisaaki YAMABA | Computer support systems for design and operation of production systems |
| | | Professor | Masato IIDA | Research of population dynamics based on the analysis of partial differential equations |
| | | Professor | Hiroki TAMURA | Study on the human interface using biological signals |
| | | Professor | Koichi TANNO | Research on high performance analog integrated circuits |
| | | Professor | Tohru TSUJIKAWA | Research on the reduced system of reaction diffusion equations |
| | | Professor | Thi Thi Zin | Image processing and its applications - Human behavior analysis and monitoring systems, image search systems, big data analysis - |
| | | 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 | Morimichi UMEHARA | Mathematical analysis of the compressible viscous fluid motion |
| | | Associate Professor | Ryusuke KON | Study on mathematical modelling and analysis of biological phenomena |
| | | Associate Professor | Makoto SAKAMOTO | Automaton and computational complexity |
| | | Associate Professor | Amane TAKEI | Development of high-performance electromagnetic field analysis method and effective utilization technique |
| | | Associate Professor | Akira DATE | Research on mathematical models of learning and self-organization |
| | | 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 | | |