



APPLICATION PROCEDURE FOR STUDENT ADMISSION TO
THE SPECIAL PROGRAM FOR INTERNATIONAL STUDENTS (SP)
OF THE GRADUATE SCHOOL
(MASTERS COURSES IN ENGINEERING),
UNIVERSITY OF MIYAZAKI

2025
Spring Admission

GRADUATE SCHOOL OF ENGINEERING
UNIVERSITY OF MIYAZAKI
JAPAN

1. SPECIAL PROGRAM

Graduate School of Engineering aims at providing education for cultivating engineers and researchers who are creative and have advanced knowledge and technology. We offer a Special Program catering for students of non-Japanese nationality. In this program, all the lectures will be taught in English.

Therefore, students are expected to have a good command of English. Although there are no specific score requirements, equivalent score of 61 in TOEFL (iBT) should be minimum. Master's Degree of Engineering will be conferred on the students who have successfully completed all the course requirements.

2. APPLICABLE COURSES AND NUMBER TO BE ADMITTED

Course		Number to be admitted
Graduate Course in Engineering	Advanced Information Course Environmental Science Course Electrical System and Semiconductor Science Course Mechanical System Course	A few

*Before applying, applicants are required to contact your prospective supervisor (see "appendix") to inquire about the detailed application procedure, contents of the education and research curriculum.

3. REQUIREMENTS FOR APPLICANTS

The applicant must have non-Japanese nationality and have or will obtain an eligible resident status that complies with the Emigration and Immigration Management and Refugee Recognition Law, and satisfy one of the following requirements.

- (1) Persons who have completed, or are expected to complete by March 2025, 16 years of school education in foreign countries.
- (2) Persons who have completed, or are expected to complete by March 2025, 16 years of school education in foreign countries by completing a correspondence course program provided by a school of the country while living in Japan.
- (3) Persons who have completed 15 years of school education in foreign countries, and have been recognized by the Graduate School of Engineering as have received the required number of credits with excellent results.
- (4) Persons who have completed, or are expected to complete by March 2025 an educational course provided by a foreign educational institution that has been recognized by the school education system of a foreign country as the country's academic course and designated by the Japanese Minister of Education, Culture, Sports, Science and Technology, provided that the persons have completed 16 years of the country's school education.
- (5) Persons who have received, or are expected to receive by March 2025, a degree equivalent to a bachelor's degree by completing the course with the period for completion of more than 3 years at a foreign university or foreign school (as evaluated by the foreign government or accreditation organization of the foreign country or specified as equivalent to such educational institutions by the Japanese Minister of Education, Culture, Sports, Science and Technology). (This may include applicants who have completed a correspondence course program provided by a school of the country while living in Japan or who have completed a course at a foreign educational institution positioned in Japan as a facility that has been recognized by the school education system of a foreign country as the country's academic course as prescribed in the preceding item.)
- (6) Persons who are aged, or scheduled to become by the end of March 2025, 22 years or older and have been recognized by the Graduate School of Engineering, based on an individual screening of applicants' qualifications for admission, as having the academic ability at least equivalent to that of a university graduate

1. The applicants, who are applicable of the above stated requirements (3) or (6), will have to have an additional qualification screening. In order to proceed with the test arrangement, make a contact with the Academic Affairs and Student Services Section, and obtain and submit the additional documents with the Application Documents 4. (2) without the application fee. The date for the submission deadline and the result of the qualifying screening are as follows.

Submission deadline: November 22 (Fri.), 2024.

Date for the result: November 28 (Thu.), 2024.

Note: If you do not have (will not obtain) a “foreign student” qualification (“Student Visa”), you will not be able to get those services available for “foreign student” such as tuition exemption, scholarships, and tutors.

4. APPLICATION PROCEDURE

(1) Application Deadline

Application documents must reach the Academic Affairs and Student Services Section during the following period and arrive by **December 20 (Fri), 2024.**

From December 16 (Mon.) to 20 (Fri.), 2024.

(Office Hours: 9:00 to 17:00)

(2) Application Documents

Submit the following **original** documents completed **in English**.

Application for Admission, Photograph Card and Identification for Examination	Fill in the prescribed forms and paste a photograph (head and shoulders, hatless, facing forward, 4cm×3cm, taken within the last 3 months) as indicated.
Graduation Certificate	Certificate of graduation or scheduled graduation from the university or college attended. (English Translation)
Certified Academic Record	Official transcript from the university or college attended (English Translation).
Scholarship Certificate (not necessary)	Scholarship certificate from the Japanese Government or her/his home government scholarship, or official statement that the applicant can get the scholarship by the time of admission, issued by the government or the university if available.
Score of TOEIC, TOEFL, IELTS	Certificate of an official English test score such as TOEIC L & R (Submission of the printed “Digital Official Score Certificate” when the TOEIC test held in after April 2023 is also acceptable), TOEFL iBT (TOEFL iBT Home Edition is also acceptable) and IELTS.
Recommendation Letter	Confidential reference of recent date from the last supervisor or immediate manager at the place of work. (In case of postgraduate research students of UOM, the present supervisor.)
Personal History	Fill in the prescribed form.

Research Plan	Write research subject, aim and method of research plan in about 300 words. Be advised: Applicants are required to contact with a professor concerned with your research topic before submitting the application.
Online Examination Application Form	Applicants who applying to take the Online Examination should fill out and submit the form after obtaining permission from your prospective supervisor.
Application Fee 30,000Yen	Using the designated transfer-request form (Form A) remit the application fee of ¥30,000 from any financial institution (other than Japan Post Bank Co., Ltd.) within the remittance period. After remitting the fee, submit Form C (certificate of application fee remittance, bearing a "Collected" stamp) together with the written application. See Note.

Note: Applicants supported by a scholarship from the Japanese government are exempted from the application fee.

(3)Application Process

Application documents must reach the Academic Affairs and Student Services Section within the application period.

In case of mailing, all the application documents should be sent together by registered mail (registered air mail when sent from abroad) with an envelope marked in red "Application for Foreign Student Admission to the Graduate School".

On receipt of the required documents the identification for examination and others will be mailed to the applicant.

(4)Submitting Place

Academic Affairs and Student Services Section
Faculty of Engineering, University of Miyazaki
1-1 Gakuen Kibanadai Nishi, Miyazaki, 889-2192, Japan
Telephone: +81-985-58-7979, Fax: +81-985-58-7287

(5)Other Notices

- 1) Check and make sure that all blanks have been properly filled in before submitting the documents.
- 2) The contents in the application documents cannot be changed after application.
- 3) Except for the following reasons, the application fee will not be returned:

In the case that the application fee was paid, but no application documents were submitted nor received by the institute, or in the case that the application fee was paid in duplicate.

*Charge for the refund of application fee should be paid by the applicant.

- 4) For further inquiry about graduate admission, please contact with the Academic Affairs and Student Services Section. (E-mail: eng-nyu@of.miyazaki-u.ac.jp)

5. SCREENING

All applicants are evaluated by the combined scores resulting from the followings: the information provided in their application, the interview including the oral exam, and the certificate of an official English test score such as TOEIC L&R, TOEFL iBT and IELTS.

All applicants must take an interview.

Also, all applicants must take an oral exam to elaborate the final research paper at the bachelor's degree. In case that the final research paper was not conducted, applicants must elaborate an alternative research paper or a future research plan. All applicants must give a five-minutes presentation and take a question session. Please bring your own PC with a file of presentation and also provide ten printed copies of presentation on the exam day.

The oral exam may include the matters related to the special field of the bachelor's degree.

(1) Date of Examination

January 21 (Tue), 2025.

(2) Place of Examination

Faculty of Engineering, University of Miyazaki.

The applicant from the university which has concluded academic or student exchange agreement with University of Miyazaki can take examination interview at own university according to the decision of the department which she/he applies.

The applicants who reside outside of Japan and cannot take the entrance examination at the university for unavoidable reasons may take the entrance examination online. If you wish to take the examination online, consult with your prospective supervisor at the time of application.

If you wish to take the examination online, please submit the "Online Examination Application Form" after obtaining permission from your prospective supervisor.

(3) Announcement of Results

February 4 (Tue), 2025. 10:00 A.M. (JST)

*The list of successful candidates will be notified on the notice board in front of the Academic Affairs and Student Services Section of the Faculty of Engineering, University of Miyazaki. For the successful candidates, an acceptance letter and documents for matriculation will be sent out.

(4) Preliminary Consultation for the Applicants who have disabilities

The applicants who have a disabling condition as shown in the following examples and require special assistance during entrance examination as well as special considerations in the course of their studies, should consult with the Academic Affairs and Student Services Section of the Faculty of Engineering before submitting the application documents.

1) Consultation Period

Until November 22 (Fri), 2024.

However, consultations by applicants who incur disabilities caused by an 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):

a) Applicant's name and desired course

b) Type and degree of disability

c) The need for special assistance and considerations in entrance examinations and in the course of studies.

d) Special measures and considerations taken in the previous school

e) Daily living situation

f) Address and telephone number

Depending upon the circumstances, it may be necessary to interview the applicants or their representatives.

(*Website: <https://www.miyazaki-u.ac.jp/exam/admission/1789-2.html>)

3) Contact Address for Consultation

Academic Affairs and Student Services Section

Faculty of Engineering, University of Miyazaki

1-1 Gakuen Kibanadai Nishi, Miyazaki, 889-2192, Japan

Telephone: +81-985-58-7979, Fax: +81-985-58-7287

Examples	
Visually Impaired	Visually impaired individuals are those who find it impossible or difficult to visually distinguish words and diagrams even with the use of a magnifying glass.
Hearing-Impaired	Hearing-impaired individuals are those who find it impossible or 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 difficult to engage in basic daily activities like note-taking. 2. Physically disabled include those who 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 Disorder	Individuals for whom special measures are required due to autism, Asperge's syndrome, learning disabilities, or attention deficit hyperactivity disorder, etc.
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.

(5) Admission / Enrollment

April 2025.

(6) School Expenses

Entrance Fee: 282,000 Yen

Tuition Fee: 267,900 Yen per semester

*If the regulations are altered, the amount of money will be changed.

*Foreign students supported by scholarship from the Japanese government are exempted from entrance fee and tuition fee.

*Once the entrance fee is paid, it will not be refunded under any circumstances except for the following reasons.

- When the admission process was not made although the entrance fee was paid.
- When the entrance fee was paid twice by mistake.

*Charge for the refund of entrance fee should be paid by the applicant.

*Tuition fee should be paid after autumn semester begins.

(7) Management of Personal Information

a) 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.

b) The names of individuals, their addresses and other personal information provided by them in connection with applications and admissions procedures will be used for 1)conducting entrance examinations (processing applications, conducting examinations), 2)announcing successful candidates, and 3)Enrollment procedures.

c) Entrance exam scores will be used as investigation and research material for applicant selection at

the university.

d) University of Miyazaki may outsource some of the above operations 2 and 3.

e) Personal information in the application form of the successful candidates will be only used for 1) educational affairs purposes (registration, curriculum guidance, etc.), 2) student support purposes (health care, job support, tuition waiver / scholarship application, etc.), and 3) tuition collection.

Admission Policy

The Master's Program in the Graduate School of Engineering offers education in which students can acquire professional knowledge and advanced engineering skills integrating with the undergraduate courses. We aim to cultivate professional engineers who have the practical ability to apply theories in the industry and business contexts and researchers. Also, we welcome students who are motivated and have abilities stated in the [Qualifications for admission].

【Qualifications for admission】

1. Those who have the basic academic skills in their specialized area of study in order to acquire professional knowledge and advanced engineering skills.
2. Those who learn actively, and have strong motivation for research.
3. Those who have the adequate communication skills for their research development in Japanese and/or English.

【Basic policy of screening】

1. Applicants will be evaluated comprehensively based on the [qualifications for admission] described above.
2. Applicants will be evaluated fairly and objectively.

【Method of screening and viewpoint of evaluation】

Each candidate will be evaluated comprehensively by the result of interview (including oral exam), the documents submitted, and the score of the internationally-recognized third-party English proficiency test.

1. By the interview, applicants will be evaluated mainly the knowledge and skills related to the specialized field, the ability to think, individuality, interest in studying, and eagerness to major field.
2. By documents submitted, applicants will be evaluated the knowledge and skills.
3. By the score of the internationally-recognized third-party English proficiency test, applicants will be evaluated the communication skill.

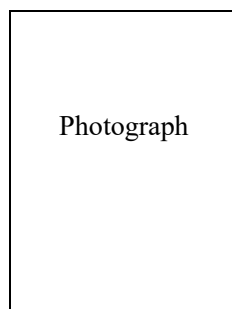
				Examinee's No	*
APPLICATION FOR ADMISSION TO GRADUATE SCHOOL OF ENGINEERING, UNIVERSITY OF MIYAZAKI					
Name				Nationality	
Date of Birth	Day	Month	Year,	Age	Sex
					Male Female
Course you wish to enter					
Address	Telephone No.				
Contact Address other than above (if any)	Telephone No.				
Contact Person in Japan, if available	Name				Relation ship
	Address	Postal Code			
		Telephone No.			
University or College attended	Department: Faculty: University: Date of (expected) graduation: (month) (year)				

Note: (1) Fill in all columns except those marked*.

(2)* Leave blank.

GRADUATE SCHOOL
UNIVERSITY OF MIYAZAKI

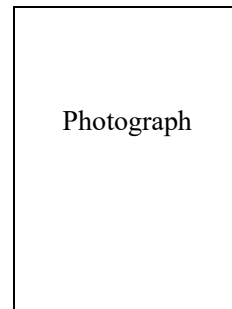
Photograph Card	
Examinee's No	*
Name	
Course you wish to enter	
Academic adviser's name proposed	



1. Head and shoulders, hatless, facing forward, 4cm×3cm, taken within the last 3 months.
2. Paste thoroughly
3. Fill in all columns except those marked *

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Identification Card for Examination	
Examinee's No	*
Name	
Course you wish to enter	
Academic adviser's name proposed	



1. Head and shoulders, hatless, facing forward, 4cm×3cm, taken within the last 3 months.
2. Paste thoroughly
3. Fill in all columns except those marked *

Do not cut off

Examinee's No	*
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Recommendation Letter

Applicant Name

Date of Birth

Name of Dean

Signature

Name of University

Country Name

Date

Personal History

Examinee's No	*
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Name		Nationality	Sex	Male Female
Date of Birth	Day Month Year	Marital Status	Single Married	

Academic Background

	Name and Location School Attended	Years Required for Graduation	Year and Month of Entrance	Year and Month of Graduation
Elementary Education		Years	From	To
Secondary Education		Years	From	To
Higher Education		Years	From	To
University		Years	From	To

Employment Record
Japanese Language Background

Research Plan

Name		Course you wish to enter		Examinee's No.	(Leave blank)
Research Subject	<p>Write your research subject, aim and method in about 300 words.</p>				

Examinee's No	*
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オンライン受験申請書
(Online Examination Application Form)

年 月 日
(Year) (Month) (Day)

宮崎大学大学院工学研究科長 殿
Dean of Graduate school of Engineering, University of Miyazaki

申 請 者
Applicant
氏 名
Name

志望コース名
Course you wish to enter

国 籍
Nationality

下記の理由により、オンライン受験を申請します。
I am applying to take the Online Examination for the reasons listed below.

オンライン受験を申請する理由
Reasons for applying to take the Online Examination

希望指導教員記入 (To be completed by your preferred Academic adviser)

署 名
Signature

Advanced Information Course

OSHIMA Tatsuya: Ph.D., Professor

- 1) Development of formulation techniques for poorly water soluble drugs and bioactive ingredients
- 2) Development of adsorbents and extractants for separation of peptides and proteins
- 3) Development of novel adsorbents and extractants for separation of rare metals
- 4) Development of novel cellulosic materials

E-mail: oshimat@cc.miyazaki-u.ac.jp

NISHIOKA Kensuke: Ph.D., Professor

- 1) Development of concentrator photovoltaic systems
- 2) Solar to hydrogen system using photovoltaic and electrochemical cell
- 3) Development of vehicle integrated photovoltaic

E-mail: nishioka@cc.miyazaki-u.ac.jp

KAWASUE Kikuhito: Ph.D., Professor

- 1) Computer vision and its application
- 2) Livestock weight estimation using a three-dimensional camera.
- 3) Robot vision systems.
- 4) Body measurement of a newborn baby using a 3D camera and AI.
- 5) Applications of AI Systems in Agriculture and Fisheries

E-mail: kawasue@cc.miyazaki-u.ac.jp

TAMURA Hiroki: Ph.D., Professor

- 1) Development of human interface using Surface-ElectronMyoGram
- 2) Biomechanical analysis and pattern recognition
- 3) Performance improvement of neural networks
- 4) Metaheuristics for combinatorial optimization problems
- 5) Human behavior analysis and monitoring systems using multi-sensors

E-mail: htamura@cc.miyazaki-u.ac.jp

OKUYAMA Yuji: Ph.D., Professor

- 1) Electrochemical properties of ionic conducting materials
- 2) Development of electrochemical cell using protonic ceramics
- 3) Development of protonic ceramic fuel cell
- 4) Prediction of ceramic functionality using machine learning

E-mail: okuyama@cc.miyazaki-u.ac.jp

SHIMAMOTO Hiroshi: Dr. Eng., Associate Professor

- 1) Transportation network modeling
- 2) Transportation planning using statistical data
- 3) Sustainable transportation planning
- 4) Reliability issues of transportation

E-mail: shimamoto@cc.miyazaki-u.ac.jp

ARAI Masakazu: Ph.D., Associate Professor

- 1) Study of metal organic vapor phase epitaxy.
- 2) Development of photonic device for sensing

E-mail: arai.masakazu@cc.miyazaki-u.ac.jp

NAGAOKA Akira: Ph.D., Associate Professor

- 1) Development of a novel thermoelectric device
- 2) Development of a novel photovoltaic device
- 3) Single crystal growth of functional materials

E-mail: nagaoka.akira.m0@cc.miyazaki-u.ac.jp

OTA Yasuyuki: Ph.D., Associate Professor

- 1) Development of technology for advanced utilization of solar power and light concentrating system
- 2) Development of super-high efficiency concentrator photovoltaic systems
- 3) Generation of hydrogen and methane using solar energy

E-mail: y-ota@cc.miyazaki-u.ac.jp

YAMAKO Go: Ph.D., Associate Professor

- 1) Biomechanical imaging of patient-specific finite element models
- 2) Development of orthopaedic implants
- 3) Sports and rehabilitation biomechanics

E-mail: g.yamako@cc.miyazaki-u.ac.jp

THI THI ZIN: Ph.D., Professor

- 1) Image Processing and Visual Human Activity Analysis
- 2) Video Surveillance and Monitoring Systems for (i) Public Security Concerns, (ii) Elderly Health Care and Daily Activity Analysis, (iii) Medical Diagnosis
- 3) Development of Advanced Image Technologies for Dairy Cow Management Systems

E-mail: thithi@cc.miyazaki-u.ac.jp

OKAZAKI Naonobu: Ph.D., Professor

- 1) Computer networks
- 2) Network security

E-mail: oka@cs.miyazaki-u.ac.jp

KATAYAMA Tetsuro: Ph.D., Professor

- 1) Design and visualization to develop software efficiency
- 2) Software testing for guarantee of software quality
- 3) Software reliability for embedded systems

E-mail: kat@cs.miyazaki-u.ac.jp

HATSUKADE Isamu: Ph.D., Professor

- 1) Astronomical data analysis
- 2) X-ray study of cosmic thin hot plasmas
- 3) Observational study of transient objects

E-mail: hatukade@cs.miyazaki-u.ac.jp

MUKUNOKI Masayuki: Ph.D., Professor

- 1) Computer vision and pattern recognition
- 2) Image processing and analysis

E-mail: mukunoki@cs.miyazaki-u.ac.jp

YAMAMORI Kunihito: Ph.D., Professor

- 1) High performance computing
- 2) Application of neural network and evolutionary computation
- 3) Fault-tolerant computing

E-mail: yamamori@cs.miyazaki-u.ac.jp

UCHIYAMA Yoshikazu: Ph.D., Professor

- 1) Computer-aided diagnosis for detection of diseases
- 2) Medical AI system for personalized treatment
- 3) Medical data science for multiomics analysis

E-mail: y-uchiyama@cc.miyazaki-u.ac.jp

SAKAMOTO Makoto: Ph.D., Professor

- 1) Theoretical computer science such as automata theory, language, computation, and digital geometry
- 2) Computational complexity and recognizability of picture
- 3) Application of image processing, computer graphics, and entertainment computing
- 4) Application of virtual technology such as AR, VR, and MR
- 5) Analysis of various problems by complex systems

E-mail: sakamoto@cs.miyazaki-u.ac.jp

NAKA Yoshihiro: Ph.D., Associate Professor

- 1) Design of optical waveguide devices for integrated optical circuits
- 2) Development of numerical method for high-precision electromagnetic field analysis

E-mail: ynaka@cc.miyazaki-u.ac.jp

YOKOMICHI Masahiro: Ph.D., Associate Professor

- 1) Path planning and obstacle avoidance for mobile robot
- 2) Self localization and control of autonomous mobile robots
- 3) Computer vision and image processing

E-mail: yokomich@cc.miyazaki-u.ac.jp

ABURADA Kentaro: Ph.D., Associate Professor

- 1) Computer Network/Security
- 2) Overlay Network (P2P)
- 3) Intelligent Transport Systems (ITS)

E-mail: aburada@cs.miyazaki-u.ac.jp

IKEDA Satoshi: Ph.D., Associate Professor

- 1) Design and analysis of probabilistic algorithm
- 2) Combinatorial optimization problems
- 3) Geometric measure theory

E-mail: bisu@cs.miyazaki-u.ac.jp

DATE Akira: Ph.D., Associate Professor

- 1) Mathematical neuroscience
- 2) Representation and computation in the brain
- 3) Information processing models: Minds and machines
- 4) Probability modeling and statistical inference
- 5) Population dynamics of large networks of neurons

E-mail: date@cs.miyazaki-u.ac.jp

INOUE Kentaro: Ph.D., Associate Professor

- 1) Modeling and simulation in biological signaling system
- 2) Gene expression analysis
- 3) Software development for systems biology

E-mail: inoue@cs.miyazaki-u.ac.jp

AOKI Kenji: Ph.D., Associate Professor

- 1) Academic information system and network
- 2) Visual information processing

E-mail: aoki@cc.miyazaki-u.ac.jp

YAMABA Hisaaki: Ph.D., Associate Professor

- 1) Scheduling and management of chemical plants
- 2) Development of computer-based design support systems of production systems

E-mail: yamaba@cs.miyazaki-u.ac.jp

TAKAHASHI Nobuya: Ph.D., Assistant Professor

- 1) Robust control of linear systems
- 2) Analysis and design of networked control system

E-mail: ntakahasi@cc.miyazaki-u.ac.jp

Environmental Science Course

SHIRAGAMI Tsutomu: Ph.D., Professor

- 1) Photocatalysis of metalloporphyrin complexes
- 2) Photovoltaic cell sensitized by metalloporphyrin complexes
- 3) Emission properties of ionic liquids

E-mail: t0g109u@cc.miyazaki-u.ac.jp

IZAWA Hironori: Ph D., Professor

- 1) Chitin/Chitosan-based biomaterials
- 2) Functional materials prepared with biopolymers
- 3) Effective use of natural resources

E-mail: h-izawa@cc.miyazaki-u.ac.jp

SAKAI Go: Ph.D., Professor

- 1) Development of electrocatalysts for PEFC
- 2) Development of positive electrode materials for secondary batteries
- 3) Development of catalysts for biomass conversion

E-mail: sakai-go@cc.miyazaki-u.ac.jp

SUGAMOTO Kazuhiro: Ph.D., Associate Professor

- 1) Synthesis and biological activities of flavonoid derivatives
- 2) Biological activities of plant extracts
- 3) Development of eco-friendly organic synthesis

E-mail: sugamoto@cc.miyazaki-u.ac.jp

NABETANI Yu: Ph.D., Associate Professor

- 1) Fabrication of photo-responsive organic/inorganic hybrid materials
- 2) Photochemistry of molecular assemblies coupled with the surrounding microenvironment
- 3) Spectroscopic and microscopic analyses of photo-functional materials

E-mail: yu.nabetani@cc.miyazaki-u.ac.jp

HIROSE Jun: Ph.D., Associate Professor

- 1) Bacterial genome structure, function and evolution
- 2) Degradation of environmental pollutants by bacteria
- 3) Transformation of biomass products into fine chemicals

E-mail: jhirose@cc.miyazaki-u.ac.jp

MATSUNE Hideki: Ph.D., Associate Professor

- 1) Catalytic reaction of nanostructures and nanocapsules
- 2) Fabrication of stimuli-responsive nanocapsules for delivery systems
- 3) Functionalization of porous microcapsules for separation system

E-mail: matsune@cc.miyazaki-u.ac.jp

MATSUMOTO Jin: Ph.D., Associate Professor

- 1) Water-soluble porphyrin with bioaffinity
- 2) Photochemical material transformation in micro reaction fields
- 3) Preparation and application of photopolymerizable vesicles

E-mail: jmatsu@cc.miyazaki-u.ac.jp

UTO Takuya: Ph.D., Associate Professor

- 1) Theoretical study on dissolution and assembly of polysaccharides
- 2) Molecular recognition and reaction mechanism of carbohydrate-related enzymes
- 3) Development and application of ionic liquids and deep eutectic solvents

E-mail: t.uto@cc.miyazaki-u.ac.jp

OHE Kaoru: Ph.D., Associate Professor

- 1) Development of adsorbents for arsenic
- 2) Development of separation system of rare metals using adsorbents and extractant
- 3) Development of hybrid materials and its application for water treatment

E-mail: okaoru@cc.miyazaki-u.ac.jp

MATSUNAGA Naoki: Dr. Eng., Associate Professor

- 1) Development of cathode materials for AFCs
- 2) Development of positive electrode materials for secondary batteries
- 3) Corrosion properties of Mg alloy

E-mail: nmatsunaga@cc.miyazaki-u.ac.jp

INADA Asuka: Ph.D., Assistant Professor

- 1) Development of metal-organic frameworks using biomolecules
- 2) Development of carriers for drug delivery systems
- 3) Development of formulation techniques for poorly water-soluble materials

E-mail: a.inada@cc.miyazaki-u.ac.jp

MIYATAKE Munetoshi: Ph.D., Assistant Professor

- 1) Arsenic removal using microorganisms
- 2) Production of functional oligosaccharides using microorganisms
- 3) Production of useful material from industrial waste using microorganisms

E-mail: t0g205u@cc.miyazaki-u.ac.jp

IRIE Mitsuteru: Ph.D., Professor

- 1) Surface water resource management
- 2) Flood control and water resource development
- 3) Environmental management in estuary and wetland
- 4) Exploitation of sediment in reservoirs

E-mail: irie.mitsuteru.p2@cc.miyazaki-u.ac.jp

SUETSUGU Daisuke: Dr. Eng., Professor

- 1) Long-term durability of improved soil/ground
- 2) Reinforcement of soft ground using timber
- 3) Geotechnical utilization of industrial waste materials
- 4) Slope disaster prevention

E-mail: suetsugu@cc.miyazaki-u.ac.jp

SUZUKI Yoshihiro: Dr. Eng., Dr. Fish. Sci., Professor

- 1) Monitoring of water quality in water environments
- 2) Physicochemical treatment for water purification
- 3) Pathogenic microorganism in water environments

E-mail: ysuzuki@cc.miyazaki-u.ac.jp

DOYE Yutaka: Dr. Eng., Professor

- 1) Phosphorus and potassium recovery from organic residues
- 2) Leaching control of MSWI residues
- 3) Control of leachate quality
- 4) Management of landfill site

E-mail: dote@cc.miyazaki-u.ac.jp

MORITA Chihiro: Dr. Eng., Professor

- 1) Structural analysis of steel bridges
- 2) Soundness evaluation of weathering steel bridges
- 3) 3-D measurement of structures
- 4) Maintenance of bridges

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MURAKAMI Keisuke: Ph.D., Professor

- 1) Sustainable development on coastal area
- 2) Restoration of coastal environment
- 3) Mitigation of coastal disasters, Tsunami, storm surge and high waves
- 4) Coastal erosion and sedimentation control

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SEKITO Tomoo: Ph.D., Associate Professor

- 1) Solid waste management and recycling
- 2) Incineration ash recycling
- 3) Community-based household waste management and recycling behavior

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FUKUBAYASHI Yoshinori: Dr. Eng., Associate Professor

- 1) Transportation Geotechnics
- 2) Road engineering in developing countries
- 3) Prevention/mitigation of geotechnical hazard in rural area
- 4) Utilization of local resources as geotechnical material

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LI Chunhe: Ph.D., Associate Professor

- 1) Long-term durability of cementitious materials
- 2) Influence of admixtures on material performance of concrete
- 3) Influence of curing conditions on material performance of concrete
- 4) Crack control of concrete structures

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NUKAZAWA Kei: Ph.D., Associate Professor

- 1) Assessing impacts of human-induced changes (dams, climate changes) on aquatic animals
- 2) Hydrological modeling
- 3) Habitat modeling of aquatic animals
- 4) Biodiversity

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NAKANO Atsushi: Ph.D., Associate Professor

- 1) Materials for Sustainable Engineering
- 2) Evaluation of Material Degradation
- 3) Evaluation and Monitoring for Atmospheric Corrosion
- 4) Maintenance for Civil Infrastructures

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KOUYAMA Atsushi: Ph.D., Assistant Professor

- 1) Disaster mitigation of earth structure
- 2) Breaching mechanism of embankment of reservoir
- 3) Reinforcement of bridge by geoform material

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Electrical System and Semiconductor Course

YOSHINO Kenji: Ph.D., Professor

- 1) Development of compound semiconductor based solar cells
- 2) Development of organic solar cells
- 3) Development of transparent conductive oxide materials

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SAKODA Tatsuya: Ph.D., Professor

- 1) Development of ozonizer using micro-barrier discharge formed in water
- 2) Development of diagnostic technique for electric power apparatus
- 3) Development of polymer insulator / arrester

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TANNO Koichi: Ph.D., Professor

- 1) Design of MOS analog integrated circuits
- 2) Development of front-end circuits for biological signals and their application
- 3) Development of nanoscale mist sprayer and its application

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HODAKA Ichijo: Ph.D., Professor

- 1) System fault detection of switching converters
- 2) Theoretical and experimental development of high-efficiency wireless power transfer
- 3) Controller design of photovoltaic power generation system
- 4) Fast computer algorithm for symbolic analysis of electronic circuits
- 5) Approximate solutions of linear periodic differential equations
- 6) Education materials of microcontroller embedded system

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TAKEI Amane: Ph.D., Professor

- 1) Research of electromagnetism theory and applications
- 2) Research and development of numerical electromagnetic field analysis method
- 3) Development of large-scale numerical analysis method

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KAKU Masanori: Ph.D., Associate Professor

- 1) Generation of VUV ultrashort pulses using harmonic radiations
- 2) Characterization of femtosecond pulses in VUV spectral region
- 3) VUV rare gas excimer lasers
- 4) Laser-product-plasma emission sources in EUV spectral region
- 5) Surface analyses using EUV light

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KATTO Masahito: Ph.D., Associate Professor

- 1) Generation and application of VUV radiations
- 2) Material processing with lasers
- 3) Development of new technique for film fabrication
- 4) Measurement technique with lasers

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FUKUYAMA Atsuhiko: Ph.D., Professor

- 1) Development of high-sensitive investigation method of deep defect levels in semiconductor using nonradiative transition
- 2) Development of contactless investigation method of photovoltaic performance of solar cell materials
- 3) Optical and electrical properties of photovoltaic materials, such as a-Si, micro-c-Si, and diamond-like carbon, III-V-N for multi-junction solar cells
- 4) Carrier transport properties in quantum well and super lattice structured semiconductors

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YAMAUCHI Makoto: Ph.D., Professor

- 1) Multi-wavelength study on gamma-ray bursts
- 2) Observational study on active galactic nuclei
- 3) Development of X-ray detectors onboard satellites

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MORI Koji: Ph.D., Professor

- 1) Observational study of high-energy astronomical objects with both ground-base and space-borne detectors
- 2) Development of cosmic-X-ray detectors onboard satellite

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IIDA Masato: Dr. Sci., Professor

- 1) Reaction-diffusion approximations to quasi-linear differential equations
- 2) Stacked waves for reaction-diffusion systems and multi-phase invasion in population dynamics
- 3) Mathematical models of bio-diffusion

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IGARASI Akinori: Ph.D., Professor

- 1) Theoretical study on atomic collisions

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MATSUDA Tatsuro: Ph.D., Professor

- 1) Experimental study of nucleon spin structure and meson spectroscopy
- 2) Application of ECR ion source for material science
- 3) Development of radiation detectors

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KON Ryusuke: Ph.D., Professor

- 1) Biomathematics, Mathematical biology
- 2) Dynamical systems (ordinary differential equations and difference equations), especially in biology
- 3) Mathematical modeling of biological systems

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SUZUKI Hidetoshi: Ph.D., Associate Professor

- 1) Fabrication and characterization of new materials for super high efficiency multi-junction concentrator photovoltaic
- 2) Crystal growth of III-V compound semiconductor alloys on Si substrates.
- 3) Crystal growth of dilute nitride thin films by the atomic layer epitaxy technique

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TAKEDA Ayaki: Ph.D., Associate Professor

- 1) Development of radiation semiconductor detectors
- 2) Development of data acquisition systems for radiation imaging

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MAEDA Yukie: Ph.D., Associate Professor

- 1) Experimental study of few-body problems and three-nucleon force effects
- 2) Development of isotope targets

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IZUHARA Hirofumi: Ph.D., Associate Professor

- 1) Mathematical modeling and analysis for complex phenomena
- 2) Self-organized pattern formation arising in reaction-diffusion systems
- 3) A relation between nonlinear diffusion equations and reaction-diffusion systems

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UMEHARA Morimichi: Ph.D., Associate Professor

- 1) Mathematical analysis of the basic equations of fluid mechanics
- 2) Compressible and viscous fluid flow
- 3) Astrophysical phenomena

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KOBAYASHI Shunsuke: Ph.D., Associate Professor

- 1) Spatio-temporal dynamics of nonlinear partial differential equations
- 2) Nonlinear phenomena, dynamical systems, bifurcations and chaos
- 3) Mathematical modeling and analysis to combustion phenomena

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SAKAI Kentaro: Ph.D., Associate Professor

- 1) Optical characterization of various materials
- 2) Fabrication and characterization of ZnO related semiconductors
- 3) Fabrication and characterization of nanoscale semiconductors
- 4) Instrument analysis of various materials

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KAMEYAMA Akihiro: Ph.D., Assistant Professor

- 1) Photosensitivity of silica glass for VUV laser irradiation
- 2) Fabrication of Fiber Bragg grating (FBG) sensors
- 3) Fabrication of refractive index sensor

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Mechanical System Course

KAWAMURA Ryuusuke: Ph.D., Professor

- 1) Analysis of mechanics of functional materials and structures
- 2) Development of solar thermal energy storage technologies
- 3) Applications of high reflective paint to environment improvement
- 4) Development of water washing/paint spraying robot for a concentrated feed tank

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DENG Gang: Dr. Eng., Professor

- 1) Fatigue strength evaluation for machine elements
- 2) Method for fatigue crack length measurement and fatigue crack initiation detection
- 3) Biomechanics analysis on human joints and bones

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NAGASE Yoshinori: Ph.D., Professor

- 1) Heat flux measurement on the focal plane of a solar concentrating system
- 2) Development of a heat storage and heat exchange system for solar concentrators
- 3) Development of hydrogen production equipment using solar heat

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OHNISHI Osamu: Dr. Eng., Associate Professor

- 1) Fabrication of micro tools and micro cutting and grinding
- 2) Cutting and grinding assisted by ultrasonic vibration
- 3) High-value added precision polishing

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BONKOBARA Yasuhiro: Dr. Eng., Associate Professor

- 1) Approach to solving vibration problems in mechanical systems
- 2) Hand-held vibrating tools using self-synchronization phenomena
- 3) New method of multi damage identification analysis

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MIYAUCHI Suguru: Ph.D., Associate Professor

- 1) Blood flow analysis
- 2) Development of measurement-integrated simulation method
- 3) Computational method for mass transfer through a membrane

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MASUYA Ken: Ph.D., Associate Professor

- 1) Design and development of the human-friendly wearable robot
- 2) Development of the soft actuators and those applications
- 3) Development of the robot's joint mechanism

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LEE Geunho: Ph.D., Associate Professor

- 1) Agricultural Robots and Control Scheme
- 2) Propulsion Mechanism for Aerial and/or Underwater Robots
- 3) Locomotion Assist Robots (Welfare Robots)
- 4) Large Numbers of Robots and Self-Organization
- 5) Convergence of IoT and Robotics

E-mail: geunho@cc.miyazaki-u.ac.jp

KOIKE Hitonobu: Ph.D., Assistant Professor

- 1) Tribological failure analysis on mechanical elements
- 2) Tribo-chemical reactions in hybrid polymer bearings
- 3) Development of polymer composite mechanical elements

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TOMOMATSU Shigeki: Ph.D., Assistant Professor

- 1) Development of rigidity measurement device for Parkinson's disease
- 2) Advanced utilization of medium to low temperature heat
- 3) Development of arsenic removal device for high arsenic contamination ground water

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