



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

2027
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 2027, 16 years of school education in foreign countries.
- (2) Persons who have completed, or are expected to complete by March 2027, 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 2027 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 2027, 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 2027, 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. (3) iii) and iv) . The date for the submission deadline and the result of the qualifying screening are as follows.

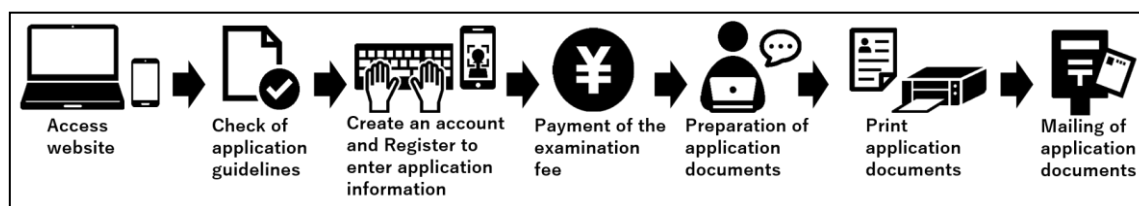
Submission deadline: October 16 (Fri), 2026.

Date for the result: October 23 (Fri), 2026.

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

Submit documents after completing the application registration through the Internet. The application is not completed merely by inputting and registering your application information and paying the examination fee on the online application system."(3) Application Documents to Be Submitted" must be brought or mailed so that they arrive at the office by the end of the application period. The application will be completed if there are no defects in the submitted documents.



(1)Application Flow

Please access the online application system from the following URL.

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

It is recommended to access the system using a personal computer.

(2)Application Deadline

Application documents must reach the Academic Affairs and Student Services Section during the following period and arrive by **November 13 (Fri), 2026**.

From November 9 (Mon) to 13(Fri), 2026.

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

*You can create an account, register to enter application information and print application documents in advance from October 26 (Mon) during the pre-registration period for the Web Application System registration.

(3)Application Documents to Be Submitted

i) Input and print from the online application system

Application Form	After completing online application registration and payment of the entrance examination fee, print on A4 paper. Once the examination fee has been paid, the registration information cannot be changed, so make sure that there are no mistakes before payment.
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ii) Upload to the web application system

Photo	Photo data must be recognizable as the applicant, in color, upper body, uncensored, without a hat, facing forward, with no background, and must be jpg or png data of 100KB to 5MB taken within the last 3 months. Edited or digitally altered photographs are not accepted.
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iii) Forms to be downloaded from the website and prepared

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

Personal History	Fill out 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.

iv) The other necessary documents to be prepared

Submit the following original documents (*excluding) completed in English.

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” is also acceptable), TOEFL iBT including TOEFL iBT Home Edition (Submission of the printed “Test Taker Score Report” is also acceptable) and IELTS. The document of English test which is carried out after April 2023 is considered valid.

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.)
Copy of the Residence Card and Copy of the Passport*	Foreigners living in Japan should submit a copy of the Residence Card and a copy of the Passport. Foreigners living abroad should submit only a copy of the Passport.

(4)Payment of Examination Fee

Examination Fee: 30,000 yen

Payment Methods:

Credit card payment, convenience store payment, and Pay-easy payment are accepted.

*In addition to the examination fee, a system usage fee depending on the payment method is required. (Credit card payment: 600 yen. Convenience store payment and Pay-easy payment: 300 yen. If the system usage fee is revised, the revised amount will be added.)

*If you live abroad and cannot pay the examination fee by the method designated by the university, please contact with the Academic Affairs and Student Services Section (E-mail: eng-nyu@miyazaki-u.ac.jp) well in advance of the submission deadline.

*Applicants supported by a scholarship from the Japanese government are exempted from the examination fee. Please contact the Academic Affairs and Student Services Section, before applying.

*Exemption from the Examination Fee for Applicants Affected by Severe Disasters

<https://www.miyazaki-u.ac.jp/exam/admission/nk-menjo.html>

*Except for the following reasons, the examination fee will not be returned:

In the case that the examination 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 examination fee should be paid by the applicant.)

*Regarding entrance examination fee refund procedure.

<https://www.miyazaki-u.ac.jp/exam/admission/nk-henkan.html>



(5)Application Process

Application documents listed in (3) i), iii) and iv) 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".

(6)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

(7)Printing of Admission Ticket for the Examination

For those who have completed the application process, the admission ticket will be available for printing from the "Check Application Status" page on the web application system from November 18, 2026 (Wed). Please print it out on A4 size and be sure to bring it with you on the day of the examination.

(8)Other Notices

- 1) Check and make sure that all blanks have been properly filled in before submitting the documents.
- 2) If any of the submitted documents are incomplete, the application may not be accepted.

- 3) As a general rule, once the documents have been received, documents will not be returned and changes to the information will not be permitted.
- 4) For further inquiry about graduate admission, please contact with the Academic Affairs and Student Services Section. (E-mail: eng-nyu@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.

Applicants must bring a valid photo identification document on the day of the examination (e.g., student ID card, My Number Card, passport, driver's license, or residence card). The document must show the applicant's name and date of birth and be valid on the examination date.

Applicants may be asked to present the identification document for identity verification, including when misconduct is suspected or when the examination admission ticket has not been brought.

(1) Date of Examination

December 8 (Tue), 2026.

(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

December 22 (Tue), 2026. 10:00 A.M. (JST)

*The list of successful candidates' examination numbers 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. Successful candidates will be able to download their acceptance letter via the Web Enrollment Procedures System, which will be sent to them by email.

(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 October 16 (Fri), 2026.

However, consultations by applicants who incur disabilities caused by an accident or other unforeseen circumstances 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 including those who use hearing aids.
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, Asperger'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, such as stuttering.

(5) Admission / Enrollment

April 2027.

(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.

a) When the admission process was not made although the entrance fee was paid.

b) 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 spring semester begins.

(7) Management of Personal Information

1) The personal information at University of Miyazaki is handled securely and appropriately in compliance with the “Act on the Protection of Personal Information” and the “Personal Information Protection Regulations of the National University Corporation University of Miyazaki”.

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 a)conducting entrance examinations (processing applications, conducting examinations), b)announcing successful candidates, and c)Enrollment procedures.

3) Entrance exam scores 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).

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

6. Academic Misconduct

Applicants who engage in academic misconduct will be instructed to stop the examination immediately and leave the examination room. No further examinations may be taken, and the results of all examinations taken by the applicants will be invalidated.

If academic misconduct is discovered after the examination, admission or enrollment may be revoked.

In addition, depending on the circumstances, the University may require the submission of additional documentation, conduct interviews in a separate room, inspect personal belongings, or file a report with the police.

(1) The following actions constitute academic misconduct:

1) Intentionally providing false information or making false entries on the application form, examination admission ticket/photo card, or answer sheet (e.g., submitting a photograph of another person or a digitally altered photograph during the application process, or writing another person's name or examination number on the answer sheet).

2) Cheating, including:

- placing or consulting notes, memoranda, copies, or other materials related to the examination subjects on or around the desk;
- referring to textbooks, reference books, dictionaries, or similar materials;

- viewing another applicant's answers; or
 - receiving answers or assistance from another person.
- 3) Providing answers to another applicant or assisting another applicant in cheating.
 - 4) Removing the examination booklet from the examination room before the end of the examination period.
 - 5) Removing the answer sheet from the examination room.
 - 6) Opening the examination booklet or beginning to answer questions before being instructed to start.
 - 7) Using aids such as compasses, calculators, abacuses, graph paper, or similar materials during the examination.
 - 8) Using electronic devices during the examination, including mobile phones, smartphones, wearable devices (such as smartwatches and smart glasses), tablet devices, electronic dictionaries, IC recorders, earphones, music players, and similar devices. Earphones will be considered in use if worn in the ears and will therefore be regarded as academic misconduct.
 - 9) Continuing to write answers, or holding a pencil or eraser after being instructed to stop at the end of the examination.

(2) In addition to the above, the following actions may also be regarded as academic misconduct:

- 1) During the examination, keeping aids such as compasses, calculators, abacuses, graph paper, or electronic devices with communication capabilities (including mobile phones, smartphones, wearable devices, tablet devices, electronic dictionaries, IC recorders, earphones, music players, etc.) on one's person or in hand instead of storing them in a bag or other designated location. Devices kept in clothing pockets or similar places will be considered in use and may be treated as academic misconduct.
- 2) Disrupting the examination by allowing sounds from a mobile phone, watch, or other device (such as ring tones, alarms, or vibration alerts) to continue for an extended period during the examination.
- 3) Making false statements regarding the examination for the purpose of obtaining an advantage for oneself or another applicant.
- 4) Engaging in conduct that disturbs or inconveniences other applicants at the examination venue.
- 5) Failing to follow the instructions of proctors or other examination staff at the examination venue.
- 6) Engaging in any other conduct that may undermine the fairness of the examination.

Note: If, due to an unforeseen accident or other circumstances occurring after submitting an application, applicants need to use a hearing aid or other assistive device during the examination, they should contact the office listed in 3) Contact Address for Consultation under (4) Preliminary Consultation for Applicants with Disabilities in Section 5, "Screening" (see page 6).

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.

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@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@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@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@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@miyazaki-u.ac.jp

ARAI Masakazu: Ph.D., Professor

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

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

YAMAKO Go: Ph.D., Professor

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

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

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
- E-mail: takei@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@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@miyazaki-u.ac.jp

SATO Daisuke: Ph.D., Associate Professor

- 1) Development of renewable energy conversion technologies
 - 2) Design and fabrication of advanced solar photovoltaic systems
 - 3) Numerical analyses for optimal control of thermal and optical energy
- E-mail: dsato@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@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

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@miyazaki-u.ac.jp

ABURADA Kentaro: Ph.D., Professor

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

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

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

E-mail: iida@miyazaki-u.ac.jp

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

E-mail: konr@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@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@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

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

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

E-mail: umehara@miyazaki-u.ac.jp

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

E-mail: s.kobayashi@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@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@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@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@miyazaki-u.ac.jp

SUGAMOTO Kazuhiro: Ph.D., 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@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@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@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@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

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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@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
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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
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INADA Asuka: Ph.D., Associate 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@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
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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
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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
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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
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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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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 geofom 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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IZUHARA Hirofumi: Ph.D., 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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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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HIGASHI Tomohiro: Ph.D., Associate Professor

- 1) Development of semiconductor-based photoelectrocatalysts
- 2) Design and development of solar-to-fuel energy conversion devices
- 3) Electroanalytical studies on organic and inorganic thin films

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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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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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IGARASI Akinori: Ph.D., Professor

- 1) Theoretical study on atomic collisions

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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

E-mail: hsuzuki@miyazaki-u.ac.jp

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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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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ASAMI Meita: Ph.D., Associate Professor

- 1) Fundamental understanding and performance enhancement of thermoradiative diodes for nighttime power generation
- 2) Development of high-quality group-IV semiconductor growth via metal-induced layer exchange for low-cost solar cells
- 3) Development of disaster-resilient standalone power systems: integrated concentrator photovoltaics, thermal energy utilization, and energy storage

E-mail: asami@miyazaki-u.ac.jp

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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SUZUKI Hiromasa: Ph.D., Assistant Professor

- 1) Observations of high-energy phenomena in the universe including supernovae, black holes, and cosmic rays
- 2) Development of high-energy radiation detectors and data analysis algorithms

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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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LEE Geunho: Ph.D., 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

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FUJIKAWA Toshihide: Ph.D., Professor

- 1) Microscopic tube flow with extremely low-Reynolds number in drug delivery system for breast cancer treatment
- 2) Dynamical threshold of cavitation due to weak tension induced by high-speed water flow
- 3) A role of bubble dynamics in diesel fuel atomization

E-mail: fujikawa_t@miyazaki-u.ac.jp

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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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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