Application Procedure
for
Foreign Student Admission
to

Department of Engineering
Graduate School of Sustainability Science
Master's Program, 2026
(October entrance)

Tottori University
4-101 Koyama-Minami, Tottori, 680-8552 Japan
Phone: +81-857-31-5186

Application Procedure for Admission

1. Courses and Number of Enrollments

Courses	Number of Enrollments
Mechanical and Aerospace Engineering	a few
Information and Electronics	a few
Chemistry and Biotechnology	a few
Social Systems and Civil Engineering	a few

2. Qualifications for Application

Non-Japanese citizens who meet one of the following qualifications are eligible for application.

1. Have graduated from an accredited university abroad, or are expected to graduate by the end of September, 2026 and completed 16-years schooling in foreign countries.
2. Have been approved by the Japanese Minister of Education, Culture, Sports, Science and Technology of Japan.
3. Have been approved by Department of Engineering, Graduate School of Sustainability Science, Tottori University, as having academic ability equivalent to university graduates and will become 22 years old or more by September 30, 2026.※1
4. Have completed or be expected to complete the program (limited to the ones that their graduates are regarded as completion of 16-years school education of the foreign country) provided by the educational institution that is founded as a part of the formal education system of the foreign country, and is also specified elsewhere by Minister of Education, Culture, Sports, Science and Technology of Japan, on or before September 30 of 2026.
5. Have received or be expected to receive a degree equivalent to bachelor's degree by completing the program of more than 3 years (including degrees obtained by completing the distance education program provided by the foreign university while residing in Japan, or by completing the program specified by Qualification 4 above at the educational institution founded on the formal education system of the foreign country) at university or other forms of school in foreign country (limited to the institutions specified by Minister of Education, Culture, Sports, Science and Technology of Japan, as having being assessed their activities including research and education by the body certified by the residing government or the relevant institutions, or as being equivalent), on or before September 30 of 2026.

※1 Applicants who fall in the qualification 3 above should submit their admission application (Form 1), past professional and research record(Form 2), Transcript of degree or graduation certificate issued by the university or college attended, and Transcript of scholastic record issued by the university or college attended. The submission should be from Tuesday, May19, 2026 to Friday, May 22, 2026. Qualification review results will be mailed to the applicants on Tuesday, June 16, 2026.

Note.

1. Most lectures in the Department of Engineering, Graduate School of Sustainability Science, Tottori University are offered in Japanese. Applicants should note that it is essential to achieve a sufficient mastery of the Japanese language before their admission.
2. Before applying to the Graduate School (master's program), applicants are advised to take one or two semesters of study as Postgraduate Research Students (non-degree program)※2 under a desired supervisor to fill in gaps in their engineering education and to acquire a good command of Japanese language in preparation for the entrance examinations.

3. Application Procedure

3.1 Choice of Course and Desired Academic Supervisor

The applicant must choose one of the four courses and the desired academic supervisor, and write them in the appropriate columns of the application form (Form 1). The applicant must contact with the desired academic supervisor written in Form 1 before submitting the application.

3.2 Application Period

Applications will be accepted from 9:00 to 17:00 from Tuesday, July 21 to Friday, July 24, 2026 at the Student Section in the Faculty of Engineering, Tottori University. Those who send applications by mail should use registered mail and write 'Application Forms for Master's program' in red on the front of the envelope. All applications must reach Student Section in Faculty of Engineering, Tottori University, no later than 17:00 on Friday, July 24, 2026. Any applications received after this due will not be accepted.

3.3 Application Documents

Applicants should submit the following documents to the Student Section in the Faculty of Engineering, Tottori University, during the above-mentioned application period.

1. Application Form for Admission (Form 1)
2. Admission Cards with photos (in duplicate)
3. Transcript of degree or graduation certificate issued by the university or college that you have attended.
4. Transcript of scholastic record issued by the university or college that you have attended. This should be a confidential communication between the university or college that you have attended and Tottori University.
5. Certificate of proficiency in Japanese language made by a teacher of Japanese language or an equivalent.
6. Certificate of Residence, copy of Residence Card, or copy of Passport.
   (Foreigners residing in Japan should submit a copy of their Residence Card (both sides) or a Certificate of Residence issued by the city or town office you live in. Other foreigners should submit a copy of your passport.)
7. Examination fee of 30,000 yen.※3

※2 See Appendix.

※3 Complete the payment at a nearby bank in Japan by the slip enclosed in this booklet. Then, stick the payment receipt slip （the right part of the form: 検定料振込済証明書）on the Application Payment Confirmation Slip part in Form 1.
Payment Period:
The First Period Application is from Friday, July 10 to Friday, July 24, 2026.

3.4 Note

1. Incomplete or incorrect application forms and documents will not be accepted.
2. The above mentioned items of the application are not substitutable once they have been received by the Student Section in the Faculty of Engineering, Tottori University.
3. Under any circumstances, the application forms, documents and examination fee cannot be returned to the applicant once they have been received by the Student Section in Faculty of Engineering, Tottori University.
4. Application should be written either in block capitals or typed.

4. Screening

4.1 Screening Procedure

Preliminary screening for admission will be made on the basis of the submitted documents. Applicants who pass this preliminary screening will be notified to take a subsequent written examinations in the following subjects and an oral examination.

1. Course of Mechanical and Aerospace Engineering
   Wednesday, August 19, 2026
   (1) Mathematics / 9:00-11:00
   (2) Physics for Mechanical Engineering / 12:30-14:30
   (3) Oral Examination / 15:00-

2. Course of Information and Electronics
   Wednesday, August 19, 2026
   (1) Mathematics / 9:00-11:00
   (2) Oral Examination / 14:00-

3. Course of Chemistry and Biotechnology
   Wednesday, August 19, 2026
   (1) Two from the following four subjects /9:00-12:00
      A. Organic Chemistry, Analytical Chemistry
      B. Inorganic Chemistry, Physical Chemistry
      C. Microbiology, Molecular Biology
      D. Biochemistry, Structural Biology
      ※Please select two pairs of subjects on the Application Form for Admission (Form 1).
      ※Changes after application are not accepted.
      ※Bring a scientific calculator
   (2) Oral Examination / 14:00-

4. Course of Social Systems and Civil Engineering
   Wednesday, August 19, 2026
   (1) Social Systems and Civil Engineering / 9:00-10:10
   (2) Mathematics / 12:30-14:00
   (3) Oral Examination / 15:00-

Venue: Department of Engineering, Graduate School of Sustainability Science (Faculty of Engineering Building),Tottori University, 4-101 Koyama-Minami, Tottori 680-8552, Japan

Note.

1. Applicants should bring the Admission Card with them to the venue of examination. The Card should be placed on the designated desk during the written examination.
2. Applicants are requested to enter the examination room by 8:45. The information regarding examination rooms and others, will be posted on the notice board of the Department of Engineering, Graduate School of Sustainability Science (at the main entrance of the Faculty of Engineering Building) from 15:00 the day before the written examination.
3. Late-comer to the examination may be allowed to take examination only if he or she arrives the venue of examination no later than 30 minutes after the examination starting time.

4.2 Preliminary Consultation for Handicapped Applicants

Applicants with disabilities who need some specific assistances during the examination as well as study terms after entrance, must submit a document (written in arbitral format) including the following items and a medical certificate prepared by a physician to Student Section in Faculty of Engineering, Tottori University, by Friday, July 3, 2026, during the examination and while attending graduate school.

1. Name of applicant, address and telephone number
2. School from which you graduated
3. Course and Field of your choice
4. Type and degree of disability
5. Attention needed upon examination
6. Attention needed while attending graduate school
7. Measures and supports provided at previous schools
8. Conditions of daily life

In addition, if Tottori University sees the need, the university will have interviews with the applicants or people from their current or previous schools, or other related persons, who are able to speak on behalf of the applicants.

5. Notification of Results

The results of the screening will be put on the web page of Tottori University around 11:00 on Thursday, September 3, 2026.
(https://www.admissions.adm.tottori-u.ac.jp/).
The notifications of acceptance will be mailed to the successful applicants, except for the student currently attending Tottori University to whom the notification will be handed directly at Student section in Faculty of Engineering. Inquiries about the results by other means such as phone and e-mail are not available.
Detailed information concerning registration after acceptance will be informed to the successful applicants in early September, 2026.

6. Admission and Tuition Fees

1. Admission Fee※4: 282,000 yen (planned amount. Must be paid at the time of registration. Not refundable.)
2. Tuition Fee※4: 535,800 yen for one academic year (planned amount)
3. Insurance Fee
   Students of Tottori University are required to be covered by the Personal Accident Insurance for Students Pursuing Education and Research ("Gakkensai") and the Comprehensive Insurance for Students' Lives Coupled with PAS for International Students ("Insurance for International Students").
   1) Gakkensai：This accident insurance covers injuries resulting from a sudden accident while insured students are participating in regular or extracurricular activities, being on campus, or commuting to school.
      Insurance premiums (2 years): 1,750 yen
      Department in charge: Health Science Center
      (E-mail: hokekan-jimu@ml.adm.tottori-u.ac.jp)
   2) Insurance for International Students: This insurance provides a wide range of support for student life, including personal liability, permanent disability, medical expenses for

※4 Foreign students supported by the scholarship from Japanese Government are exempt from the admission and the tuition fees.

daily injuries, rescue expenses, and accidental damage to household goods in the residence.
Insurance amount (2 years): The amount varies depending on the type.
Department in charge: International Affairs Division
(Tel+81-857-31-5056, E-mail: kokuko-gaku@ml.adm.tottori-u.ac.jp)
For more details, please contact each department.

Note.

1. University admission and tuition fees above are estimates only. In cases where fee adjustments are announced while students are entering university or when they are already enrolled, students will be requested to pay the adjusted fees.
2. The method for paying tuition fee will be announced later when you are guided for university entrance procedure.

7. Inquiries

Any inquiries related to the application to Department of Engineering, Graduate School of Sustainability Science, Tottori University, should be made by mail to Student Section in Faculty of Engineering, Tottori University, given below.

Student Section in Faculty of Engineering
Department of Engineering, Graduate School of Sustainability Science
Tottori University
4-101 Koyama-Minami, Tottori, 680-8552 Japan
Phone: +81-857-31-5186
E-mail: en-kyoumu@ml.adm.tottori-u.ac.jp

8. Correspondences in Case of Unforeseen Circumstances

When the screening cannot be implemented as scheduled due to large disaster or other unforeseen events, or when the university foresees that traffic disruption or other hazardous events have great negative effects on the applicants, correspondences might be taken such as changes of examination time and/or dates, screening methods, and date of result publication. When the specific correspondence to such event is determined, it will be posted on the official web site of Tottori University. So please be careful on Tottori University web site, especially just before the examination date.

Appendix

Application Procedure for Postgraduate Research Students to Department of Engineering Graduate School of Sustainability Science, Tottori University

Those who aim to study a specific subject at the postgraduate level may be admitted as Postgraduate Research students. The students in this category are not entitled to any degrees even upon the completion of their study program. However, Graduate School would advise them to prepare for the degree program of Graduate School depending upon their qualifications. The same qualifications are required of a prospective Postgraduate Research Student as are required of a degree candidate for the Master's program. Applicants for Postgraduate Research Students should submit the following documents to Student Section in Faculty of Engineering through the desired academic supervisor well in advance.※1

1. Application Form for Admission
2. Curriculum vitae
3. Transcript of degree or graduation certificate issued by the university or college you have (had) attended.
4. Transcript of scholastic record issued by the university or college attended. This should be a confidential communication between the university or college you have (had) attended and Graduate School of Tottori University.
5. Certificate of proficiency in Japanese language made by a teacher of Japanese language or an equivalent, if any.
6. Certificate of registered matters on the original registration.
7. Letter of permission for application written by the employer, if the applicant is an employee.
8. Application fee of 9,800 yen. In the case of application by mail, payment can be made by postal money order (do not fill in the remittee's name).

Selection will be made on the basis of the documents submitted.

Time of admission for Postgraduate Research Students is normally the beginning of each semester, that is, April or October. The period of registration is up to one year, but may be extended if necessary.

Successful applicants are requested to pay the following admission and research fees before admission.

1. Admission Fee: 84,600 yen (planned amount)
2. Research Fee: 29,700 yen per month (planned amount)

Applicants who wish to know more details are advised to inquire by e-mail to Student Section in Faculty of Engineering given below.

Student Section in Faculty of Engineering
Department of Engineering, Graduate School of Sustainability Science,
Tottori University
4-101 Koyama-Minami, Tottori, 680-8552 Japan
Phone: +81-857-31-5186
E-mail: en-kyoumu@ml.adm.tottori-u.ac.jp

※1 About six months before the time of admission for taking ample processing time to enter into Japan are strongly recommended.

Department of Engineering,

Graduate School of Sustainability Science,

Tottori University

Outline of Courses and Fields in Master's Program

Course of Mechanical and Aerospace Engineering

Possessing the human resources necessary for meeting a wide variety of needs in engineering fields, Course of Mechanical and Aerospace Engineering nurtures high-level engineers and researchers who are able to develop technologies from an interdisciplinary perspective, rather than from a stereotyped viewpoint. They are not restricted to just mechanical engineering, but are also proficient in the fields of aerospace, material, electronic, information, and environmental engineering. This course allows students to acquire high-levels of expertise and engage in original research; this enables them to develop so that they can aggressively assume leadership in solving problems. Specifically, students are trained to acquire the following:

(1) A broad and fundamental knowledge of mechanical engineering, and also advanced expertise in applied mathematics, mechanics, and physics, that provide a foundation for entering advanced interdisciplinary engineering fields such as space engineering

(2) A flexible way of thinking and insight to view problems macroscopically by considering the harmony between the natural environment and human society, and also leadership to solve problems systematically.

Applicants are expected to appreciate this policy and to be highly motivated. They are required to possess academic attainments in mathematics and physics employed in engineering as well as linguistic ability.

Mechanical and Aerospace Engineering Field

Solid mechanics, Materials science and engineering, Reliability and design engineering, Precision and production engineering, Mechanical dynamics and mechatronics, Control and robotics, Thermal energy engineering, Fluid engineering, Fluid dynamics, Condensed matter physics, Non-linear dynamics, Nanomechanics, Biomechanics, Thermodynamics

Course of Information and Electronics

The main objective of this course is to produce competent engineers and researchers. There are two fields in this course as listed below.

Information and Knowledge Engineering Field

We aim to produce IT engineers and researchers with the ability to realize advanced information-oriented technologies for the benefit of modern society. We particularly focus on producing human resources with the balanced knowledge of relevant hardware and software through instruction in, among other disciplines, advanced computing and its application to intelligent systems. The research and educational syllabi encompass the theoretical basics of information and knowledge engineering as well its advanced applications, such as design of intelligent systems and computer-aided technology.

Electrical and Electronic Engineering Field

This field covers a wide range of leading edge technologies such as highly efficient device, advanced communication technology, software and hardware, and aims to produce world class engineers. In detail, we groom our students to have

(1) better technical knowledge of electric and electronics;
(2) basic intellectual and ethical aptitude;
(3) the ability to discover and solve difficult problems; and
(4) the zeal to serve internationally.

We accept those students who are interested in electric and electronics fields.

Course of Chemistry and Biotechnology

The goal of Course of Chemistry and Biotechnology is to educate engineers and researchers who are competent in the fields of industrial chemistry and biotechnology. To this end, Course provides students with a highly specialized curriculum at the graduate level. Course is composed of two fields, Applied Chemistry and Biotechnology.

Applied Chemistry Field

We have classes that teach basic concepts in organic, inorganic, and physical chemistries, followed by advanced classes for organic and inorganic materials chemistry, organic and inorganic synthetic chemistry, catalyst chemistry, and electrochemistry. In addition, we place an emphasis on hands-on training under laboratory conditions in addition to classroom teaching to experience and analyze various chemical processes.

Biotechnology Field

Our goal is to provide students with knowledge that would allow them to seek new ways to combine nature and human society in harmonious ways, through the discovery of novel reactive mechanisms and useful compounds at the interface of biology (the study of living organisms and living systems) and engineering (the application of scientific principles to industry). Specifically, provides classes to apply the various mechanisms in bacterial or various cellular metabolism and replication to the production of various compounds and polymers, as well as to the removal of harmful chemicals from the environment. Any student who enters this field is assigned to a laboratory, and he/she will undergo basic training to become an engineer or a researcher through performing cutting-edge research.

We welcome students who possess a demonstrable grasp of scientific principles and techniques at the university level, and who are interested in becoming an active engineer or researcher in fields related to chemical industry, nanotechnology, biotechnology, and bioscience.

Course of Social Systems and Civil Engineering

Objective of Course of Social Systems and Civil Engineering is to train engineers who not only create abundant society through wide-ranging practices of improvements to the infrastructure, creation and activation of safety local community, but also pursue soft and hard wares methodology to create comfortable and active society by the education of highly-professional knowledge/technology and researches.

Civil Engineering Field

This field cultivates skillful engineers who have knowledge of plan, design, construction and management of social infrastructures. To achieve the objective, this field seeks motivated, wide perspective and problem-solving oriented persons who are eager to learn the construction technology which supports manufacturing activities, who are interested in creating space for human living, and who consider harmony with the nature.

Social Systems Engineering Field

This field aims at training engineers who can contribute to realization of better society through planning and design of systems on urban, traffic, environment, disaster prevention, management, production, and telecommunication. Objective of the training is to provide students with the ability for solving

problems with an engineering approach comprising humanities and social science, and learning systematic consideration to solve problems in the modern society. To achieve the objective, field seeks students who have a passion to realize comfortable life and abundant society, who have idea looking things analytically and also who have strong will to overcome difficulties with elaborate systematic means.

YEAR 2026
APPLICATION FOR FOREIGN STUDENT ADMISSION
Department of Engineering,
Graduate School of Sustainability Science, Tottori University

Master's Program
(October entrance)

2026 年度鳥取大学大学院持続性社会創生科学研究科
博士前期課程工学専攻（10 月入学）
外国人留学生特別入試願書

Instruction(記入上の注意)

1. Application should be written either in ink or by a ball-point pen (either in black or blue only).
   (記入にあたっては，必ずインク又はボールペン(青又は黒)を使用してください。)
2. Application should be printed either in Japanese or in Roman block capitals.
   (記入にあたっては，楷書又はローマ字(大文字)を用いてください。)
3. Numbers should be written in Arabic Figures.
   (数字は算用数字を用いてください。)
4. Year should be written in the Anno Domini system.
   (年号はすべて西暦としてください。)
5. Proper noun should be written in full, and not be abbreviated.
   (固有名詞はすべて正式な名称とし，一切省略しないでください。)

Form 1 （様式 1）

Examination ID No. （受験番号）	＊

＊Leave blank（この欄には記入しないでください。）

YEAR 2026 APPLICATION FOR FOREIGN STUDENT ADMISSION

Department of Engineering,

Graduate School of Sustainability Science, Tottori University

Master's Program

(October entrance)

1. The Course of your choice; Select one course（志望コース名）

_____

2. Elective subjects（選択科目）

Only for students who wish to take a Course of Chemistry and Biotechnology.
Please select two pairs of subjects from the following pairs of subjects A~D and circle the letters A~D.

※ Changes after application are not accepted.

A. Organic Chemistry , Analytical Chemistry

B. Inorganic Chemistry , Physical Chemistry

C. Microbiology , Molecular Biology

D. Biochemistry , Structural Biology

3. Name of desired academic supervisor（志望指導教員名）

_____

4-1. Name in full, in your native language（姓名；自国語）

_____ _____ _____

(Family name) (First name) (Middle name)

In Roman capitals（ローマ字）：

_____ _____ _____

(Family name) (First name) (Middle name)

4-2. Nationality（国籍）：_____

4-3. Sex（性別）： [ ] Male（男） [ ] Female（女）

4-4. Date of Birth: Year _____ Month _____ Day _____

（生年月日） （年） （月） （日生）

5. Present address, telephone number, fax number, and e-mail address

（現住所及び電話，ファックス番号又は電子メールアドレス）

_____

6. Academic background（学歴）

	Name of School （学校名）	Address of School （学校所在地）	Period of Attendance （在学期間）	（学位） Completed Degree
Elementary School （小学校）			From To	
Lower and Upper Secondary School(s) （中学校及び高等学校）			From To	
Undergraduate Level （大学）			From To	
Graduate Level （大学院）			From To	

Application Payment
Confirmation Slip
(振込確認票)

Department of Engineering,
Graduate School of Sustainability Science
(大学院持続性社会創生科学研究科工学専攻)
Tottori University
(鳥取大学)
Master's Program, 2026
(博士前期課程)
October entrance
(10 月入学)

Admission Card (Duplicate)
(写真票)

Examination ID No.
(受験番号)

Name
(氏 名)

Photo
(写真欄)
4 ㎝ × 3 ㎝

Department of Engineering,
Graduate School of Sustainability Science
(大学院持続性社会創生科学研究科工学専攻)
Tottori University
(鳥取大学)
Master's Program, 2026
(博士前期課程)
October entrance
(10 月入学)

Admission Card (Duplicate)
(受験票)

Examination ID No.
(受験番号)

Name
(氏 名)

Photo
(写真欄)
4 ㎝ × 3 ㎝

Note: (注意)
Please bring this card to the examination
(受験の際はこの受験票を必ず持参してください。)

Form 2（様式 2）

YEAR 2026

APPLICATION FOR THE CERTIFICATION OF QUALIFICATIONS

Department of Engineering,
Graduate School of Sustainability Science, Tottori University
Master's Program
（October entrance）

（2026 年度鳥取大学大学院持続性社会創生科学研究科
博士前期課程工学専攻（10 月入学））

（入 学 試 験 出 願 資 格 審 査 調 書）

Name of Examinee（氏　名）		Present Occupation（現　職）		Course of your choice（志望コース）	コース
Date of Birth（生年月日）		Present Address（現住所）			

Professional Career (Please list)（職歴）	
Date（日付）	Names of organizations and positions（事項）

Past research work or achievement（Please list）（学会及び社会における活動等）	
Date（日付）	Names of organizations and positions（事項）

＊This form is only for applicants with the qualification 3
（この用紙は出願資格 3 の該当者のみに適用するものです。）

教育研究分野，担当教員及び研究テーマ※
Field of Education-Research, Supervisor and Research Theme※

※募集時点での予定であり，教員の異動等により変更になる場合があります。
※Subject to change due to personnel changes

■は@に置き換える。
The symbol of ■ should be replaced by @.

①機械宇宙工学コース　Course of Mechanical and Aerospace Engineering

教育研究分野 Field of Education-Research		教員名・連絡先 Supervisor Place to Contact	研究テーマ Research Theme
材料 Materials and Mechanics	固体力学 Solid Mechanics	松野　崇 MATSUNO, Takashi matsu■tottori-u.ac.jp	・金属材料の大変形域変形抵抗の計測とモデル化 ・塑性変形に伴う塑性誘起損傷のマルチスケール解析 ・ミクロ・ナノスケール損傷現象のイメージベース逆解析 ・放射光X線イメージングによる構造材料の変形破壊解析 ・Forming of high-strength metal material ・Identification of post-necking plastic deformation behavior of metal materials ・Multi-scale analysis of plastic deformation induced damage expansion ・Image-base inverse analysis for micro/nano damaging behavior ・Deformation and fracture analysis of materials by synchrotron X-ray imaging
		清水　一行 SHIMIZU, Kazuyuki ksmz■tottori-u.ac.jp	
	材料工学 Materials Science and Engineering	陳　中春 CHEN, Zhongchun chen■tottori-u.ac.jp	・高性能熱電変換材料の創製 ・3Dプリンタを駆使した革新的高強度・高延性チタン合金の開発 ・マルエージング鋼やステンレス鋼の積層造形 ・セラミックス基複合材料のIn-situ合成およびマルチ靭化効果 ・セラミックス粒子強化アルミニウム基複合材料の合成および高強度化 ・高熱伝導率を有するアルミニウム／炭素系複合材料の開発 ・新規抗ウイルス粉体材料の創製および耐久性の向上 ・Fabrication and characterization of thermoelectric materials ・Development of novel high-strength and high-ductility titanium alloys using additive manufacturing ・Additive manufacturing of maraging steels and stainless steels ・In-situ synthesis and multiple toughening of ceramic-matrix composites ・In-situ synthesis of ceramic-reinforced aluminum-matrix composites ・Extrusion of aluminum-carbon composites with high thermal conductivity ・Development of novel antiviral materials and improvement of their durability
		音田　哲彦 ONDA, Tetsuhiko onda■tottori-u.ac.jp	
デザインDesign and Manufacturing	信頼性・設計工学 Reliability and Design Engineering	小野　勇一 ONO, Yuichi ono■tottori-u.ac.jp	・金属材料の疲労強度評価に関する研究 ・実験応力解析法に関する研究 ・歯車の高強度化に関する研究 ・交通流のモデル化に関する研究 ・交通渋滞緩和の方法論に関する研究 ・Study on fatigue damage evaluation of metals ・Study on experimental stress analysis ・Study on improving strength of gear ・Study on modeling traffic flows ・Study on the methodology of easing traffic jams
		西　遼佑 NISHI, Ryosuke nishi■tottori-u.ac.jp	
	生産加工学 Manufacturing Engineering	佐藤　昌彦 SATO, Masahiko sato■tottori-u.ac.jp	・金属切削加工 ・機械加工における熱放射温度計測 ・ターンミリングのモデル化 ・フライス切削のびびり安定性モデリング ・Metal cutting process ・Infrared temperature measurement in machining process ・Process modeling of turn-milling ・Modeling of chatter stability in milling operations
ロボメカRobotics and Mechatronics	機械力学・メカトロニクス Mechanical Dynamics and Mechatronics	田村　篤敬 TAMURA, Atsutaka a-tamura■tottori-u.ac.jp	・傷害バイオメカニクスに関する研究 ・人体モデリング・生体材料を用いた力学実験 ・衝突解析 ・Study on injury biomechanics ・Human body modeling and mechanical characterization of biological materials ・Crash simulation
		本宮　潤一 HONGU, Junichi hongu■tottori-u.ac.jp	・機械の振動・騒音低減に関する研究 ・機械装置の異常予兆検知技術の開発 ・Study on vibration and noise reduction of machine ・Development of anomaly detection technique of machine
	制御・ロボティクス Control and Robotics	辻田　勝吉 TSUJITA , Katsuyoshi ktsujita■tottori-u.ac.jp	・脚移動ロボットの高機能化に関する研究 ・宇宙機の機能設計と運動制御に関する研究 ・人の運動支援システムの開発に関する研究 ・点検・診断・介護ロボットの研究 ・生体信号の計測と処理 ・ブレイン―マシン・インタフェースのリハビリテーションへの応用 ・Research on the high functionality of legged mobile robots ・Functional design and motion control of spacecraft ・Research on the development of human motion assistive systems ・Robots for inspection, diagnostic and healthcare ・Biosignal measurements and processing ・Brain-machine interface for rehabilitation
		中谷　真太朗 NAKATANI, Shintaro snakatani■tottori-u.ac.jp	

教育研究分野 Field of Education-Research		教員名・連絡先 Supervisor Place to Contact	研究テーマ Research Theme
熱流体Thermo-Fluid Dynamics	宇宙推進工学 Space Propulsion Engineering	葛山　浩 KATSURAYAMA, Hiroshi katsurayama■tottori-u.ac.jp	・レーザー推進式ロケットのエネルギー変換過程の研究 ・レーザー爆轟波の超高速風洞への応用 ・電磁力を用いた大気圏突入用減速機の開発 ・Research on energy conversion process of laser propelled rockets ・Application of laser detonation waves to ultrafast wind tunnels ・Development of atmospheric entry decelerator using magnetohydrodynamic force
	流体工学 Fluid Engineering	酒井　武治 SAKAI, Takeharu tsakai■tottori-u.ac.jp	・大気突入宇宙機熱防御システム開発 ・熱空力，アブレーション，輻射，表面熱化学反応 ・高温プロセスの数値シミュレーション ・航空機・輸送機器の空力解析と低抵抗化 ・プラズマアクチュエータを用いた流体制御に関する研究 ・流れの数値シミュレーションによる解析・開発 ・液体燃料の微粒化と噴霧燃焼に関する研究 ・噴霧および燃焼の計測法に関する研究 ・エンジンの燃焼解析と排気ガス低減に関する研究 ・Development of thermal protection system for space vehicles ・Aerothermodynamics, Ablation, radiation, and surface thermochemistry ・Simulation of High-Temperature Processes ・Aerodynamic drag reduction of Aircraft and Ground Vehicles ・Active flow control using plasma actuators ・Research of flow field by numerical simulations ・Research on liquid fuel atomization and spray combustion ・Developments of spray measurement technique ・Engine combustion analysis and emission reduction
		松野　隆 MATSUNO, Takashi matsuno■tottori-u.ac.jp	
		小田　哲也 ODA, Tetsuya odate■tottori-u.ac.jp	
数理力学Physical Mechanics	複雑系数理工学 Mathematical Engineering of Complex Systems	古川　勝 FURUKAWA, Masaru furukawa■tottori-u.ac.jp	・磁場閉じ込め核融合プラズマの磁気流体力学（MHD）理論・シミュレーション ・ハミルトン力学理論に基づくプラズマ平衡・安定性解析 ・構造保存数値シミュレーション法 ・コロイド液体の統計物理 ・粉粒体ペーストの弾塑性モデル ・加振した浅水系の流れ ・Theory and simulation of magnetohydrodynamics for magnetically confined fusion plasmas ・Equilibrium and stability analysis of plasmas based on Hamiltonian dynamics theory ・Structure-preserving numerical simulation algorithms ・Statistical physics of colloidal liquids ・Elastoplastic modeling of granular pastes ・Flows in oscillated shallow water systems
		大信田　丈志 OOSHIDA, Takeshi ooshida■tottori-u.ac.jp	
	数理物質科学 Mathematical Material Science	灘　浩樹 NADA, Hiroki hnada■tottori-u.ac.jp	・結晶形成機構のメタダイナミクス研究 ・非晶質構造や物質形状の機械学習研究 ・機能性分子による結晶形成制御機構 ・ソフトマター／液体の非平衡ダイナミクス ・ソフトクリスタルにおける相転移現象 ・Metadynamics study on crystallization mechanisms ・Machine learning study on amorphous structures and material shapes ・Mechanism of crystallization control by functional molecules ・Nonequilibrium dynamics in soft matter and liquids ・Phase transition in soft crystals
		高江　恭平 TAKAE, Kyohei takae■tottori-u.ac.jp	
	計算理工学・物理計算工学 Electronic structure calculation/ Computational Physics and Engineering	榊原　寛史 SAKAKIBARA, Hirofumi sakakibara■tottori-u.ac.jp	・第一原理バンド計算を用いた機能材料の性能シミュレーション ・性能シミュレーションのための多体模型の第一原理的導出 ・高精度及び高効率な多体計算手法の開発 ・第一原理計算に基づく強相関材料の設計 ・超伝導転移、励起子転移などの相転移の理論研究 ・薄膜及び超格子などの人工物質の設計 ・Performance simulations on functional materials using first-principles calculations ・First-principles derivation of many-body models used in performance simulations ・Development of highly accurate and efficient solver for many-body problems ・Design of correlated materials using first-principles calculations ・Theoretical investigation on transition such as superconducting or excitonic transition ・Design of artificial materials such as thin film and superlattice

教育研究分野 Field of Education-Research		教員名・連絡先 Supervisor Place to Contact	研究テーマ Research Theme
数理応用Physical Engineering	ナノシステム解析学・分子流体力学 Nano Dynamics and Tribology/ Molecular Fluid Dynamic	松岡　広成 MATSUOKA, Hiroshige hiro■tottori-u.ac.jp	・分子間／表面間相互作用の研究 ・液体／固体超薄膜の研究 ・トライボロジー現象の超高精度計測 ・分子気体／液体潤滑の研究 ・計算トライボロジーの研究 ・情報機器ハードウェアのダイナミクスに関する研究 ・希薄気体の流れの研究 ・Research on molecular interactions and surface interactions ・Research on ultra-thin liquid/solid films ・Ultra-high accuracy measurements of tribological phenomena ・Research on molecular gas/liquid-film lubrication ・Research on computational tribology ・Research on dynamics of information storage systems ・Research on rarefied gas flows
		土井　俊行 DOI, Toshiyuki doi■tottori-u.ac.jp	
		石川　功 ISHIKAWA, Takumi tishikawa■tottori-u.ac.jp	
	生体システム解析学 Bio and Fluid Mechanics	後藤　知伸 GOTO, Tomonobu goto■tottori-u.ac.jp	・微細な流れの観察及び数値シミュレーション ・微生物の集団及び単独の運動 ・細菌の走化性の観察及び数値シミュレーション ・流体音の発生機構と低減技術 ・流れを伴う開口部の音響インピーダンス計測 ・Micro-flow analysis, observation and numerical simulation ・Collective and cellular level behavior of micro-organisms ・Observation and numerical simulation of bacterial chemotaxis ・Aeroacoustics, sound generation mechanism and noise reduction ・Acoustic impedance measurement of an aperture in the presence of mean flow
		中井　唱 NAKAI, Tonau nakai■tottori-u.ac.jp	
	再生可能エネルギー工学 Renewable Energy Engineering	原　豊 HARA, Yutaka hara■tottori-u.ac.jp	・先端技術風車の研究開発 ・風力タービンの数値流体力学解析 ・小形風車の最適配置に関する研究 ・Research and development of advanced technology of wind turbine ・Computational fluid dynamics of wind turbines ・Research on optimal layout of small wind turbines

② 情報エレクトロニクスコース　Course of Information and Electronics

教育研究分野 Field of Education-Research	教員名・連絡先 Supervisor Place to Contact	研究テーマ Research Theme
知能制御工学 Intelligent Control	櫛田　大輔 KUSHIDA, Daisuke kushida■tottori-u.ac.jp	・生体信号に基づく感覚の定量化 ・画像処理に基づく行動評価システム ・意思決定モデリングと経験則の抽出 ・人に対するパワーアシスト制御システムの設計 ・移動ロボットの知的制御
	竹森　史暁 TAKEMORI, Fumiaki take■tottori-u.ac.jp	・Quantification of sensation based on biological signal ・Motion evaluation system based on image processing ・Decision-making modeling and extraction of empirical rules ・Control design of human power assist system ・Intelligent control for mobile robot
	吉川　宣一 YOSHIKAWA, Nobukazu nyoshi■tottori-u.ac.jp	・光センシング・光計測 ・ディジタルホログラフィ ・立体ディスプレイ ・散乱イメージング ・Optical sensing and measurement ・Digital holography ・3D display ・Imaging through scattering media
計算機工学 Computer Science and Technology	川村　尚生 KAWAMURA, Takao kawamura■tottori-u.ac.jp	・分散システム ・社会情報システム ・エージェントシステム ・ネットワーク・情報セキュリティ ・Distributed systems ・Social information systems ・Agent system ・Network and information security
	高橋　健一 TAKAHASHI, Kenichi takahashi■tottori-u.ac.jp	
	東野　正幸 HIGASHINO, Masayuki higashino■tottori-u.ac.jp	
	村田　真樹 MURATA, Masaki murata■tottori-u.ac.jp	・自然言語処理 ・情報検索・情報抽出 ・機械学習 ・Natural language processing ・Information retrieval, information extraction ・Machine learning
知識工学 Knowledge Engineering	吉村　和之 YOSHIMURA, Kazuyuki kazuyuki■tottori-u.ac.jp	・非線形科学 ・非線形ダイナミクスを用いた情報処理
	清水　忠昭 SHIMIZU, Tadaaki tadaaki■tottori-u.ac.jp	・Nonlinear science ・Information processing using nonlinear dynamics
	木村　周平 KIMURA, Shuhei kimura■tottori-u.ac.jp	・進化計算 ・バイオインフォマティクス ・自然言語処理における意味解析および感情推定 ・観光情報の応用
	徳久　雅人 TOKUHISA, Masato tokuhisa■tottori-u.ac.jp	・Evolutionary computation ・Bioinformatics ・Semantic and emotion analysis in natural language processing ・Information technology applications in tourism
	岩井　儀雄 IWAI, Yoshio iwai■tottori-u.ac.jp	・計算インタラクション ・パターン認識 ・ヒューマンメディア処理 ・拡張現実感
	青木　工太 AOKI, Kota aoki.k■tottori-u.ac.jp	・Computational interaction ・Pattern recognition ・Human media processing ・Augmented reality
	西山　正志 NISHIYAMA, Masashi nishiyama■tottori-u.ac.jp	・画像認識 ・映像解析 ・ヒューマンインタフェース ・Image recognition ・Video analysis ・Human interface

教育研究分野 Field of Education-Research	教員名・連絡先 Supervisor Place to Contact	研究テーマ Research Theme
電子情報制御 Information and Control Engineering	中川　匡夫 NAKAGAWA, Tadao nakagawa■tottori-u.ac.jp	・ウェアラブル機器の無線伝送および光無線伝送 ・生体センサの高精度化信号処理 ・高周波回路設計 ・Wireless communications and optical wireless communications for wearable devices ・High-precision signal processing for biomedical sensors ・Radio frequency circuit design
	笹岡　直人 SASAOKA, Naoto sasaoka■tottori-u.ac.jp	・音声強調 ・ディジタル無線通信方式 ・能動騒音制御 ・Speech enhancement ・Digital wireless communication system ・Active noise control
	近藤　克哉 KONDO, Katsuya kondo■tottori-u.ac.jp	・コンピュータビジョン ・バイオ画像解析・医用工学 ・計測制御システムの知能化 ・Computer vision ・Bioimage analysis and medical engineering ・Development of smart measurement control system
電気電子 システム Electrical and Electronic Systems Engineering	中西　功 NAKANISHI, Isao nakanishi■tottori-u.ac.jp	・ディジタル信号処理応用 ・バイオメトリクス個人認証 ・音声信号処理 ・Application of digital signal processing ・Biometrics person authentication ・Speech signal processing
	大木　誠 OHKI, Makoto mohki■tottori-u.ac.jp	・多数目的最適化アルゴリズム ・制約付き多数目的最適化アルゴリズム ・記号・数値混合の組合せ多目的最適化問題 ・Many-objective optimization algorithms ・Constrained many-objective optimization algorithms ・Multi-objective combinatorial optimization problems including symbols and numerics
	齋藤　健太郎 SAITO, Kentaro saitouken■tottori-u.ac.jp	・無線通信システム ・IoTシステム ・ドローンの無線通信システムへの活用 ・Wireless communication systems ・IoT systems ・Application of drones to wireless communication systems
	三柴　数 MISHIBA, Kazu mishiba■tottori-u.ac.jp	・画像処理 ・コンピューテーショナルフォトグラフィ ・Image processing ・Computational photography

教育研究分野 Field of Education-Research	教員名・連絡先 Supervisor Place to Contact	研究テーマ Research Theme
電子物性 デバイス Electronic Materials and Device Engineering	市野　邦男 ICHINO, Kunio ichino■tottori-u.ac.jp	・光デバイス・電力デバイス用ワイドバンドギャップ半導体の研究 ・高効率太陽電池の研究 ・高効率紫外・可視発光素子の研究 ・Study on wide bandgap semiconductors for optical/power devices ・Study on high-efficiency solar cells ・Study on high-efficiency ultraviolet/visible light-emitting devices
	阿部　友紀 ABE, Tomoki abe■tottori-u.ac.jp	・ワイドギャップ化合物半導体の結晶成長に関する研究 ・青-紫外受光デバイス(アバランシェフォトダイオード)の開発 ・青-紫外光変調器の開発 ・高効率紫外発光デバイスの開発 ・Study on crystal growth of wide bandgap semiconductors ・Development of blue-ultraviolet optical detectors (avalanche photodiodes) ・Development of blue-ultraviolet optical modulators ・Development of high efficient ultraviolet light emitting devices
	大観　光徳 OHMI, Koutoku ohmi■tottori-u.ac.jp	・エレクトロルミネッセンス・ディスプレイの研究 ・植物育成用波長変換膜の研究開発 ・ソーラーパネル用波長変換膜の研究開発 ・白色LED照明用蛍光体の研究 ・Research on electroluminescent displays ・Development of wavelength conversion phosphor film for plant growth ・Development of wavelength conversion phosphor film for solar panel ・Research on phosphors for white LED applications
	西村　亮 NISHIMURA, Ryo ryo■tottori-u.ac.jp	・再生可能エネルギー技術による海水の淡水化などの乾燥地開発 ・静電気および高電圧に関する研究 ・太陽光発電 ・Application of renewable energy technology, such as desalination of brackish water, for arid-land development ・Application of electrostatics and high voltage technology ・Photovoltaic power generation
	李　相錫 LEE, Sang-Seok sslee■tottori-u.ac.jp	・バイオ/ケミカル/医療用MEMSデバイスの研究開発 ・IoT用センサとIoTシステムに関する研究 ・メタマテリアルの設計及び応用 ・RFMEMS及び高周波デバイスに関する研究 ・MEMS devices for bio/chemical/medical applications ・Sensors for IoT and IoT systems ・Design and application of metamaterials ・RFMEMS and RF devices
	松永　忠雄 MATSUNAGA , Tadao matsunaga■tottori-u.ac.jp	・低侵襲医療MEMSデバイスの研究開発 ・極細径光ファイバMEMSセンサの研究開発 ・ロボット外科手術用マイクロセンサの研究開発 ・マイクロアクチュエータを用いた触覚ディスプレイの開発 ・非平面基板への微細加工技術の研究 ・Development of minimally invasive medical devices utilizing microfabrication techniques (MEMS) ・Development of ultra-thin fiber-optic MEMS sensor ・Development of micro sensors for robotic surgery ・Development of tactile display using micro actuators ・Study on non-planar photofabrication techniques

③ 化学バイオコース　Course of Chemistry and Biotechnology

教育研究分野 Field of Education-Research	教員名・連絡先 Supervisor Place to Contact	研究テーマ Research Theme
グリーン 触媒化学 Green Catalysis Chemistry	片田　直伸 KATADA, Naonobu katada■tottori-u.ac.jp 辻　悦司 TSUJI, Etsushi e-tsuji■tottori-u.ac.jp 津野地　直 TSUNOJI, Nao tsunoji■tottori-u.ac.jp	・ゼオライト及び固体酸触媒の原理と応用 ・重質油，メタン，バイオマス，廃プラスチックから有用物質への転換に資する触媒及びプロセス開発 ・機能性ナノ構造体の合成 ・水電解および二酸化炭素還元用電極触媒の開発 ・特性制御のためのオンデマンドなゼオライトの合成 ・二酸化炭素回収、有効利用および環境浄化に資する材料開発 ・Principles and application of zeolites and solid acid catalysis ・Conversion of heavy oil components, methane, biomass and plastic waste into useful materials ・Synthesis of functional nanostructured materials ・Development of electrocatalysts for water electrolysis and CO2 reduction ・On-demand zeolite synthesis for property design ・Carbon capture and utilization, and environmental purification
無機元素化学 Main Group Element Chemistry	南条　真佐人 NANJO, Masato nanjo■tottori-u.ac.jp	・14族元素を鍵とするイオン液体の合成と機能性デバイスの創成 ・機能性電子材料を指向した有機ケイ素および有機ゲルマニウム化合物の分子設計と開発 ・Synthesis of ionic liquids consisting of heavy group 14-elements and application to electrochemical devices ・Design and synthesis of functional organosilicon and organogermanium compounds, and development of electronic materials
応用電気化学 Applied Electrochemistry	薄井　洋行 USUI, Hiroyuki usui■tottori-u.ac.jp 道見　康弘 DOMI, Yasuhiro domi■tottori-u.ac.jp	・リチウムおよびナトリウムおよびカリウム貯蔵性材料の創製とその二次電池への応用 ・全固体二次電池の開発 ・光電変換に基づく新規エネルギー貯蔵材料の開発 ・二次電池用電極の反応挙動解析 ・Synthesis of lithium, sodium, or potassium storage intermetallic compounds and their properties as anode materials in rechargeable batteries ・Development of all solid-state secondary batteries ・Development of energy storage materials based on photovoltaics ・Reaction behavior analysis of electrode in rechargeable batteries
分子集積化学 Molecular Self-assembly	松浦　和則 MATSUURA, Kazunori ma2ra-k■tottori-u.ac.jp 稲葉　央 INABA, Hiroshi hinaba■tottori-u.ac.jp	・人工ウイルス構造の創製と応用 ・生体分子の自己組織化によるナノ構造体の構築 ・光応答性生体分子システムの創成 ・微小管内部空間を利用した機能性材料の創製 ・Creation and application of artificial virus structures ・Construction of nanostructures by self-organization of biomolecules ・Creation of light-responsive biomolecular systems ・Creation of functional materials applying inner space of microtubules
有機材料化学 Organic and Polymer Materials Chemistry	吾郷　万里子 AGO, Mariko mariko.ago■tottori-u.ac.jp	・機能性ナノ粒子のハイスループット合成手法の開発 ・多孔性カーボン微粒子の光熱変換効果 ・未利用バイオマス資源を用いた機能性材料の開発 ・天然資源に由来する微粒子の紫外線遮断特性 ・ピッカリングエマルション安定化機構の解明とその応用展開 ・環境中のマイクロプラスチックの迅速分析法の開発 ・High-throughput synthesis for functional nanoparticles ・Photo-thermal conversion with porous carbon particles ・Sustainable development of functional materials from under-utilized biomass resources ・UV-blocking properties of nano-, micro-particles derived from natural polymers ・Mechanisms of stabilisation of Pickering emulsions and development of their applications. ・Development of a rapid analysis method for microplastics released into the environment.

教育研究分野 Field of Education-Research	教員名・連絡先 Supervisor Place to Contact	研究テーマ Research Theme
有機合成化学 Synthetic Organic Chemistry	野上　敏材 NOKAMI, Toshiki tnokami■tottori-u.ac.jp	・分子糖質科学 ・有機電気化学 ・機能性イオン液体 ・Molecular Glycoscience ・Organic Electrochemistry ・Functional Ionic Liquids
無機材料化学 Inorganic Materials Chemistry	増井　敏行 MASUI, Toshiyuki masui■tottori-u.ac.jp	・環境に優しい色材の合成と応用 ・新しい希土類蛍光体の設計 ・無機系紫外線遮断剤の開発 ・希土類を含有する不均一系触媒の調製 ・Synthesis and application of environment-friendly color materials ・Design of new phosphors based on rare earth compounds ・Development of inorganic sunscreens ・Preparation of heterogeneous catalysts containing rare earth elements
生物機能 開発工学 Biofunction Development Engineering	鈴木　宏和 SUZUKI, Hirokazu hirokazusuzuki■tottori-u.ac.jp	・微生物と海藻の新しい機能の発見と応用・開発と基礎研究 ・微生物と海藻の機能を利用する物質生産と環境保全への応用展開研究 ・微生物と海藻における生理活性物質の代謝と次世代炭素源の代謝に関わる酵素と遺伝子の解明 ・高変異性好熱菌を利用した酵素進化工学 ・未利用海洋資源を用いた新規医療素材の開発 ・Discovery and application of novel functions of microorganisms and marine algae ・Application and development of the functions of microorganisms and marine algae to the practical production of useful substances and the solutions of environmental problems ・Fundamental studies: enzymology, molecular genetics, and protein engineering of enzymes involved in the metabolisms of physiologically active substances and new generation carbon sources in microorganisms and marine algae ・Directed evolution approaches to enhance enzyme stability using error-prone thermophiles ・Development of new medical materials using unutilized marine resources
	八木　寿梓 YAGI Hisashi yagi■tottori-u.ac.jp	
生体触媒工学 Biocatalyst Engineering	岡本　賢治 OKAMOTO, Kenji okamoto■tottori-u.ac.jp	・担子菌由来の生理活性物質の単離と生産 ・担子菌由来の生理活性物質の作用機序の解明 ・担子菌によるリグノセルロース分解酵素，エタノールおよびキシリトールの生産 ・パスウェイエンジニアリングによる有用イソプレノイドの生産 ・高等植物・微細藻類由来イソプレノイド合成遺伝子の機能同定 ・微細藻類による有用物質生産 ・Isolation and production of bioactive compounds from basidiomycetes ・Determining the mechanism of action of bioactive compounds from basidiomycetes ・Production of lignocellulose-degrading enzymes, ethanol and xylitol by basidiomycetes ・Pathway engineering for the production of functional isoprenoids ・Functional characterization of isoprenoid biosynthesis genes in higher plants and microalgae ・Production of useful materials by microalgae
	原田　尚志 HARADA, Hisashi harada■tottori-u.ac.jp	
蛋白質工学 Protein Engineering	溝端　知宏 MIZOBATA, Tomohiro mizobata■tottori-u.ac.jp	・タンパク質，酵素の構造と機能相関 ・タンパク質の構造形成 ・タンパク質の安定性とコンフォメーション変化 ・分子シャペロンとアミロイド線維凝集 ・細菌由来膜タンパク質の膜挿入反応 ・細菌タンパク質を標的とする抗菌剤の研究 ・Structure and function of enzyme and protein ・Protein folding ・Protein stability and conformational change ・Molecular chaperone and protein fibrillogenesis (aggregation) ・Membrane insertion of bacterial membrane proteins ・Study of antibiotics targeting bacterial proteins
	青木　英莉子 AOKI, Eriko eaoki■tottori-u.ac.jp	
生物有機化学 Bioorganic Chemistry	花島　慎弥 HANASHIMA, Shinya hanashima■tottori-u.ac.jp	・柔軟な構造を持つ生体有機分子：相互作用と生命機能の解明 ・脂質膜に作用する有機分子：開発と作用機構の解明 ・生体分子の有機合成 ・Flexible bioorganic molecules: Interactions and biological functions ・Organic molecules targeting lipid bilayers: Mechanistic insights and development ・Organic synthesis of biomolecules
構造生物学 Structural Biology	永野　真吾 NAGANO, Shingo snagano■tottori-u.ac.jp	・生理活性物質生合成系の構造生物学的研究 ・アナモックス菌の窒素化合物変換の分子基盤 ・動物による熱感知システムの構造生物学的研究 ・膜タンパク質の構造生物学的研究 ・ユビキチンシグナルの構造生物学 ・Structural biology of natural products biosynthesis ・Molecular basis of nitrogen metabolism by anammox bacteria ・Structural biology of thermal sensation ・Structural biology of membrane proteins ・Structural biology of ubiquitin signaling
	日野　智也 HINO, Tomoya t_hino■tottori-u.ac.jp	
	佐藤　裕介 SATO, Yusuke yusato■tottori-u.ac.jp	

④ 社会システム土木コース　Course of Management of Social Systems and Civil Engineering

教育研究分野 Field of Education-Research	教員名・連絡先 Supervisor Place to Contact	研究テーマ Research Theme
構造・ コンクリート工学 Structural and Concrete Engineering	谷口　朋代 TANIGUCHI, Tomoyo t_tomoyo■tottori-u.ac.jp	・土木構造物，機械構造物及び海洋構造物の構造設計 ・土木構造物，機械構造物及び建築構造物の耐震性能 ・土木構造物，機械構造物及び海洋構造物の維持管理 ・地盤・構造物の地震応答特性の評価 ・GIS及び人工衛星技術を用いた自然災害のハザード評価 ・Structural design of infra-, mechanical and offshore structures ・Earthquake-resistant performance of infra-, mechanical and building structures ・Maintenance of infra-,mechanical and offshore structures ・Earthquake response evaluation of subsurface and building structures ・Hazard assessment of natural disasters by GIS and satellite technology
	野口 竜也 NOGUCHI, Tatsuya noguchit■tottori-u.ac.jp	
	黒田　保 KURODA, Tamotsu tkuroda■tottori-u.ac.jp	・産業副産物のコンクリートへの有効利用 ・コンクリートおよびコンクリート構造物の耐久性評価 ・コンクリートおよびコンクリート構造物の補修・補強 ・コンクリート構造物の劣化予測と維持管理 ・Application of industrial waste products to concrete ・Durability assessment of concrete and concrete structures ・Repair and strengthening for concrete and concrete structures ・Prediction of deterioration and maintenance for concrete structures
地盤・岩盤工学 Geotechnical and Rock Engineering	中村　公一 NAKAMURA, Koichi nak_x■tottori-u.ac.jp	・飽和土および不飽和土の力学的性質 ・斜面防災とモニタリング ・Constitutive properties of saturated and unsaturated soils ・Slope disaster mitigation and monitoring
	小野　祐輔 ONO, Yusuke ysk■tottori-u.ac.jp	・地盤構造物の地震応答解析 ・地盤災害の数値シミュレーション ・斜面災害のハザード・リスク評価 ・粘土鉱物に着目した土・岩石の物性の解明 ・粘土鉱物を含有した材料による岩盤の力学特性の向上 ・Earthquake response analysis of earth structures ・Numerical simulation of geohazards ・Hazard risk assessment for slope disaster ・Evaluation of properties of clay mineral-bearing geomaterials ・Properties of rock mass including macro-fracture filled with clay minerals
	河野　勝宣 KOHNO, Masanori kohnom■tottori-u.ac.jp	
水工・海岸工学 Hydraulic and Coastal Engineering	和田　孝志 WADA Takashi wada-t■tottori-u.ac.jp	・混合砂礫の移動機構と河床変動予測 ・河道への土砂供給による河床変動，流路変動 ・土砂動態に及ぼす河道構造物の影響 ・土石流流動メカニズムの解明 ・山地～河川～河口域にわたる流砂系内の土砂動態把握 ・Sediment transport and bed deformation in non-uniform sediment beds ・Bed deformation and channel evolution due to sediment supply to riverbed ・Effects of river structure on sediment dynamics ・Debris flow mechanics ・Sediment-transport process in a river system from mountainous area to estuary
	黒岩　正光 KUROIWA, Masamitsu kuroiwa■tottori-u.ac.jp	・波と海浜流の数値解析モデル ・漂砂と海浜変形予測 ・河口・航路の維持管理 ・沿岸防災とモニタリング ・河川流や津波による地形変化解析 ・Numerical model of waves and nearshore currents ・Coastal sediments and Prediction of coastal geomorphological change ・Maintenance of river-mouth, port and harbor ・Coastal disaster and monitoring ・Numerical analysis of topography change due to river flow or tsunami
	梶川　勇樹 KAJIKAWA, Yuki kajikawa■tottori-u.ac.jp	
地圏環境・ 建築工学 Geo-spherical Environmental and Architectural Engineering	香川　敬生 KAGAWA, Takao kagawa■tottori-u.ac.jp	・強震動予測の高度化に関する研究 ・震源破壊過程・地盤構造が地震動に及ぼす影響 ・地球物理学的手法に基づく地下構造の探査とモデル化 ・Research for sophisticating strong ground motion estimation ・Effects of fault rupture process and surface geology on earthquake ground motion ・Exploration and modeling of underground structures based on geophysical methods
	山口　秀文 YAMAGUCHI, Hidefumi h-yamaguchi■tottori-u.ac.jp	・居住と地域の持続性 ・歴史的建造物の保存活用と歴史的資源を活かしたまちづくり ・地域文脈と地域文脈デザイン ・公共建築の市民共創に関する研究 ・建築工学教育の涵養過程に関する研究 ・工学教育における基礎造形教育に関する研究 ・Sustainable Living and Community Sustainability ・Preservation and adaptive reuse of historic buildings and community development based on historical resources ・Local context and context-sensitive design ・Citizen co-creation of public architecture ・Cultivation process of architectural engineering education ・Basic education of fine arts in engineering education
	辻井　麻衣子 TSUJII, Maiko K. m.tsujii■tottori-u.ac.jp	

教育研究分野 Field of Education-Research	教員名・連絡先 Supervisor Place to Contact	研究テーマ Research Theme
都市計画 Urban Planning	福山　敬 FUKUYAMA, Kei fukuyama■tottori-u.ac.jp	・地域都市システムの理論・実証分析 ・社会経済モデルによる定量的政策評価手法の開発 ・都市地域・空間データの解析 ・土木計画学・都市計画 ・Institutional design and analyses of regional socio-economic systems ・Public policy evaluation ・Analysis of urban regional and spatial data ・Infrastructure planning and management, and urban planning
	細江　美欧 HOSOE, Mio mhosoe■tottori-u.ac.jp	
経営システム Management Systems	長江　剛志 NAGAE, Takeshi nagae■tottori-u.ac.jp	・地域・産業間波及効果を考慮した政策分析のための多地域応用一般均衡モデル分析手法の開発と実証 ・人口減少社会における居住空間/道路空間の設計 ・不確実性下の社会基盤整備事業のマネジメントと財務価格評価 ・土木計画学・交通工学・地域科学・都市経済学 ・Multi-regional computable general equilibrium model and its application ・Design of residential and road space in a society with decreasing population ・Management and pricing of infrastructure projects under dynamic uncertainty ・Infrastructure planning and management, transportation engineering, regional science and urban economics
情報システム Information Systems	桑野　将司 KUWANO, Masashi kuwano■tottori-u.ac.jp	・生活・交通行動分析手法の開発 ・ビッグデータを用いた計画論 ・土木計画学・交通工学・都市計画 ・サービスの品質管理・評価 ・意思決定モデルの開発 ・Activity - travel behavior analysis ・Big data based planning theory ・Infrastructure planning and management, transportation engineering, and urban planning ・Service quality control and evaluation ・Decision making models
	南野　友香 MINAMINO, Yuka minamino■tottori-u.ac.jp	
公共システム Public Systems	谷本　圭志 TANIMOTO, Keishi tanimoto■tottori-u.ac.jp	・持続的社会システムの計画方法論の開発 ・生活交通システムの計画論 ・生活支援サービスの設計・分析 ・市民参加型計画プロセスの設計 ・地域運営組織の分析・評価 ・Methodologies for sustainable society planning ・Planning theory of local transport system ・Design and analysis of daily support services ・Design of participatory planning process ・Analysis and evaluation of regional management organization
	長曽我部　まどか CHOSOKABE, Madoka mchoso■tottori-u.ac.jp	
防災計画・維持管理工学 Disaster Prevention Planning and Infrastructure Maintenance Engineering	太田　隆夫 OTA, Takao ohta■tottori-u.ac.jp	・避難シミュレーション等に基づくソフト防災 ・沿岸防災施設の性能評価に関する研究 ・社会基盤施設の維持管理モデルに関する研究 ・XR（Cross Reality）とAIによる橋梁維持管理支援システムに関する研究 ・舗装路面評価システムに関する研究 ・Soft measures for disaster prevention based on evacuation simulation ・Performance evaluation of coastal disaster prevention facilities ・Maintenance management model for infrastructure ・Bridge management support system by XR and AI ・Road pavement management system by AI and motion sensor
	江本　久雄 EMOTO,Hisao emoto■tottori-u.ac.jp	
環境計画 Environmental Planning	宮本　善和 MIYAMOTO, Yoshikazu miyamoto■tottori-u.ac.jp	・流域/環境経営に関する社会デザイン ・環境デザインに関する研究 ・気候変動の適応策としての防災マネジメント ・循環型社会に向けた微生物の応用 ・水質環境の保全，管理 ・環境配慮型社会システム ・Social design on watershed or rural environmental management ・Design for the preservation of environments ・Disaster risk management for adaptation to climate change ・Application of microorganisms for establishing recycling-based society ・Water quality control and management ・Current issues in global environmental protection
	高部　祐剛 TAKABE, Yugo takabe.yugo■tottori-u.ac.jp	