### Application Procedure for Foreign Student Admission to

## Department of Engineering Graduate School of Sustainability Science Master's Program, 2018 ( April entrance )

### **Tottori University**

4-101 Koyama-Minami, Tottori, 680-8552 Japan Phone: +81-857-31-6761 This "Application Procedure for Foreign Student Admission" includes information both for First Period Application and for Second Period Application.

Applicants for First Period Application should refer to the pages 1-6, 13, and the subsequent pages.

Applicants for Second Period Application should refer to the page 7-13, and the subsequent pages.

### **Application Procedure for Admission**

### ( First Period Application )

### 1. Courses, Fields, and Number of Enrollments

Courses	Fields	Number of Enrollments
Mechanical and Aerospace Engineering	Mechanical and Aerospace Engineering	a few
Information and Electronics	Information and Knowledge Engineering	C
	Electrical and Electronic Engineering	a few
Chemistry and Biotechnology	Applied Chemistry	. C-
	Biotechnology	a few
Social Systems and Civil	Civil Engineering	
Engineering	Social Systems 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 March, 2018 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 March 31, 2018.\*\*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 March 31 of 2018.
- 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 March 31 of 2018.

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<sup>\*\*1</sup> 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 Monday, June 5, 2017 to Thursday, June 8, 2017. Qualification review results will be mailed to the applicants on Tuesday, June 20, 2017.

### 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 Field

The applicant must choose one of the Courses and one of the Fields in Section 1 and write them in the appropriate columns of the application form (Form 1).

### 3.2 Application Period

Applications will be accepted from 9:00 to 17:00 from Thursday, July 20 to Tuesday, July 25, 2017 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 Tuesday, July 25, 2017. 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. Letter of Recommendation from the President, Dean or Department Chairman of the university or college that you have attended.
- 6. Certificate of proficiency in Japanese language made by a teacher of Japanese language or an equivalent, if any.
- 7. 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.)
- 8. Examination fee of 30,000 yen.\*3

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<sup>&</sup>lt;sup>\*2</sup> See Appendix.

<sup>\*\*3</sup> 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: 檢定料振込済証明書) on the Application Payment Confirmation Slip part in Form 1. Payment Period:

The First Period Application is from Thursday, July 13 to Tuesday, July 25, 2017.

### **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

Thursday, August 24, 2017

- (1) Mathematics / 9:00-11:00
- (2) Mechanical and Aerospace Engineering Field

One from the following subjects / 12:30-14:30

- · Physics for Mechanical Engineering
- Mechanics
- (3) Oral Examination / 15:00-
- 2. Course of Information and Electronics

Thursday, August 24, 2017

(1) Information and Knowledge Engineering Field

Computer Architecture, Algorithm and Data Structures / 9:00-11:00 Electrical and Electronic Engineering Field

Electromagnetic Theory, Electric and Electronic Circuits / 9:00-11:00

- (2) Mathematics / 11:30-13:30
- (3) Oral Examination / 15:00-
- 3. Course of Chemistry and Biotechnology

Thursday, August 24, 2017

(1) Applied Chemistry Field

Organic Chemistry, Inorganic Chemistry, Physical Chemistry / 9:00-13:00 Biotechnology Field

Two from the following four subjects /9:00-13:00

- · Microbiology
- · Biochemistry
- · Organic Chemistry
- · Physical Chemistry / Structural Biology
- (2) Oral Examination / 14:00-
- 4. Course of Social Systems and Civil Engineering

Thursday, August 24, 2017

- (1) Mathematics / 9:00-10:30
- (2) Social Systems Engineering Field

Social Systems Engineering / 10:45-11:55

Civil Engineering Field

Civil Engineering / 10:45-11:55

(3) Oral Examination

Social Systems Engineering Field / 13:00-

Civil Engineering Field / 13:00-

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 physical 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 7, 2017, 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 7, 2017.

(http://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 February, 2018.

### 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<sup>\*4</sup>: 535,800 yen for one academic year (planned amount)

### 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: +81-857-31-6761

E-mail: en-kyoumu@adm.tottori-u.ac.jp

<sup>\*4</sup> Foreign students supported by the scholarship from Japanese Government are exempt from the admission and the tuition fees.

### **Application Procedure for Admission**

### ( Second Period Application )

### 1. Courses, Fields and Number of Enrollments

Courses	Fields	Number of Enrollments
Mechanical and Aerospace Engineering	Mechanical and Aerospace Engineering	a few
Information and Electronics	Information and Knowledge Engineering Electrical and Electronic Engineering	a few
Chemistry and Biotechnology	Applied Chemistry Biotechnology	a few
Social Systems and Civil Engineering	Civil Engineering Social Systems 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 March, 2018 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 March 31, 2018.\*\*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 March 31 of 2018.
- 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 March 31 of 2018.

<sup>\*1</sup> 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, October 3, 2017 to Friday, October 6, 2017. Qualification review results will be mailed to the applicants on Tuesday, October 17, 2017.

### 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 Field

The applicant must choose one of the Courses and one of the Fields in Section 1 and write them in the appropriate columns of the application (Form 1).

### 3.2 Application Period

Applications will be accepted from 9:00 to 17:00 from Tuesday, November 7 to Friday, November 10, 2017 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, November 10, 2017. 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. Letter of Recommendation from the President, Dean or Department Chairman of the university or college that you have attended.
- 6. Certificate of proficiency in Japanese language made by a teacher of Japanese language or an equivalent, if any.
- 7. 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.)
- 8. Examination fee of 30,000 yen.\*3

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<sup>\*2</sup> See Appendix.

<sup>\*\*3</sup> 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 Second Period Application is from Wednesday, November 1 to Friday, November 10, 2017.

### **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 the 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

Thursday, December 7, 2017

- (1) Mathematics / 9:00-11:00
- (2) Mechanical and Aerospace Engineering Field

One from the following subjects / 12:30-14:30

- · Physics for Mechanical Engineering
- · Mechanics
- (3) Oral Examination / 15:00-
- 2. Course of Information and Electronics

Thursday, December 7, 2017

(1) Information and Knowledge Engineering Field

Computer Architecture, Algorithm and Data Structures / 9:00-11:00 Electrical and Electronic Engineering Field

Electromagnetic Theory, Electric and Electronic Circuits / 9:00-11:00

- (2) Mathematics / 11:30-13:30
- (3) Oral Examination / 15:00-
- 3. Course of Chemistry and Biotechnology

Thursday, December 7, 2017

(1) Applied Chemistry Field

Organic Chemistry, Inorganic Chemistry, Physical Chemistry / 9:00-13:00 Biotechnology Field

Two from the following four subjects /9:00-13:00

- · Microbiology
- · Biochemistry
- · Organic Chemistry
- Physical Chemistry / Structural Biology
- (2) Oral Examination / 14:00-
- 4. Course of Social Systems and Civil Engineering

Thursday, December 7, 2017

- (1) Mathematics / 9:00-10:30
- (2) Social Systems Engineering Field

Social Systems Engineering / 10:45-11:55

Civil Engineering Field

Civil Engineering / 10:45-11:55

(3) Oral Examination

Social Systems Engineering Field / 13:00-

Civil Engineering Field / 13:00-

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-come 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 physical 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, October 27, 2017, as the applicants may need attention 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
- 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 site of Tottori University around 11:00 on Friday, December 22, 2017.

(http://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 is not available.

Detailed information concerning registration after acceptance will be informed to the successful applicants in early, February 2018.

### 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 per year (planned amount)

### 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 guide.

### 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: +81-857-31-6761

E-mail: en-daigaku@adm.tottori-u.ac.jp

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<sup>\*4</sup> Foreign students supported by a scholarship from Japanese Government are exempt from the admission and the tuition fees.

### **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 well in advance.\*

- 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 mail to Student Section in Faculty of Engineering given below or Chairman of Course concerned. A self-addressed envelope with 362 yen stamps should be enclosed.

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: +81-857-31-6761

E-mail: en-kyoumu@adm.tottori-u.ac.jp

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<sup>\*1</sup> 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

There are two Fields in this Course aiming to produce engineers and researchers as listed below.

### Information and Knowledge Engineering Field

We aim to produce IT engineers and researchers who have the ability to create advanced information-oriented society of the future and bring it to practice. Especially, we focus on producing human resources with the balanced knowledge of both hardware and software through the education of advanced computer, its application to intelligent system, and others. We have the research and educational program from the basic to the application covering various computer related areas such as construction of intelligent system, advancement of computer system and computer aimed technology.

### Electrical and Electronic Engineering Field

We cover a wide range of technologies such as highly efficient device, advanced communication technology, software and hardware, and aim to produce world class engineers. In detail, our aims can be pointed out as follows:

- ① better technical knowledge of electric and electronics
- 2 basic intellectual and ethical ability
- 3 ability to discover difficult problems and their solution
- 4 spirit to serve the international society

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. 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.

### Organizational Structure of Doctoral Program

### Graduate School of Engineering, Tottori University

### (1) Department of Mechanical and Aerospace Engineering

- (a) Mechanical Engineering Course
- (b) Applied Mathematics and Physics Course

### (2) Department of Information and Electronics

- (a) Information and Knowledge Engineering Course
- (b) Electrical and Electronic Engineering Course

### (3) Department of Chemistry and Biotechnology

- (a) Applied Chemistry Course
- (b) Biotechnology Course

### (4) Department of Management of Social Systems and Civil Engineering

- (a) Civil Engineering Course
- (b) Social Management Engineering Course

### **YEAR 2018**

### APPLICATION FOR FOREIGN STUDENT ADMISSION

### **Department of Engineering,**

### Graduate School of Sustainability Science, Tottori University

### Master's Field (April entrance)

2018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(4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。)

### YEAR 2018 APPLICATION FOR FOREIGN STUDENT ADMISSION

### Department of Engineering,

### Graduate School of Sustainability Science, Tottori University Master's Program

(April entrance)

	ce; Select one Field	(志望分野)
3-1. Name in full, in veri	nacular(姓名;自国語	<u></u> <del>1</del> )
(Family name) In Roman capitals (	<b>(First name)</b> ローマ字):	(Middle name)
(Family name)	(First name)	(Middle name)
B-2. Nationality(国籍) B-3. Sex(性別):	: <b>] Male</b> (男)	
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### 6. Academic background (学歴)

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(大学院)			То	

### 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, 2018

(博士前期課程)

April entrance

(4月入学)

Admission Card (Duplicate) (写真票)

Examination ID No. (受験番号)

Photo

(写真欄)

Name (氏 名)

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**Application Payment** Confirmation Slip

(振込確認票)

Department of Engineering,

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(大学院持続性社会創生科学研究科工学専攻)

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### YEAR 2018

### APPLICATION FOR THE CERTIFICATION OF QUALIFICATIONS

Department of Engineering,

Graduate School of Sustainability Science, Tottori University Master's Program

(April entrance)

(2018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(4月入学)) (入学試驗出顧答枚索本調書)

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① Course of Mechanical and Aerospace Engineering

Field	Particular Area of Education and Research	Supervisor	Research Theme
Mechanical and Aerospace Engineering	Solid Mechanics	OBATA, Yoshihiro IWASA, Takashi	<ul> <li>Study on thermal stresses and related topics</li> <li>Study on tactile warmth between human body and materials</li> <li>Study on thermo property of woody materials</li> <li>Study on mechanical characteristic of flexible space structures</li> <li>Study on analysis method for membrane structures</li> </ul>
	Materials Science and Engineering	CHEN, Zhongchun ONDA, Tetsuhiko	<ul> <li>Fabrication and characterization of thermoelectric materials</li> <li>In-situ synthesis and multiple toughening of ceramic-matrix composites</li> <li>Fabrication of aluminum-matrix composites with high performance</li> <li>Development of influenza antiviral ceramic materials</li> <li>Surface modification of die steels by electron beam irradiation</li> <li>Martensitic transformation of zirconia and its application to transformation toughening of engineering ceramics</li> </ul>
	Reliability and Design Engineering	ONO, Yuichi NISHI, Ryousuke	<ul> <li>Study on fatigue damage evaluation of metals</li> <li>Study on experimental stress analysis</li> <li>Study on improving strength of gear</li> <li>Study on modeling traffic flows</li> <li>Study on the methodology of easing traffic jams</li> </ul>
	Precision and Production Engineering	SATO, Masahiko MATSUNO, Takashi	<ul> <li>High precision and high efficient machining of difficult-to-cut materials</li> <li>Monitoring and control of machining processes</li> <li>Numerical analysis of sheared-surface properties</li> <li>Ductile fracture of metals</li> </ul>
	Mechanical Dynamics and Mechatronics	KOIDE, Takao TAMURA, Atsutaka	<ul> <li>Study on vibration and noise of machines</li> <li>Development of abnormality detection method of machines</li> <li>Development of high performance gears</li> <li>Study on injury biomechanics</li> <li>Human body modeling and mechanical characterization of biological materials</li> </ul>
	Control and Robotics	NISHIDA, Shin-Ichiro SAKURAMA, Kazunori	<ul> <li>Robots for hazardous environment</li> <li>Robots for inspection, diagnostic and healthcare</li> <li>Development of advanced air-vehicle</li> <li>Distributed control of power network</li> <li>Formation control of multiple robots</li> </ul>

Field	Particular Area of Education and Research	Supervisor	Research Theme
Mechanical and	Thermal Energy Engineering	SAKAI, Takeharu	· Development of thermal protection system for space vehicles
Aerospace		ODA, Tetsuya	Ablation, radiation, and surface thermochemistry
Engineering			· Laser processing of composite materials
			· Research on liquid fuel atomization and spray combustion
			· Developments of spray measurement technique
			Engine combustion analysis and emission reduction
	Fluid Engineering	KAWAZOE, Hiromitsu MATSUNO, Takashi	• Aerodynamic analysis of a delta wing and a flight vehicle in unsteady motion and an object in flow field
			· Research on supersonic/hypersonic flow by experiments with a shock/arc plasma tunnels
			· Study on material surface change by surface wave plasma
			· Active flow control using plasma actuators
			· Research of flow field by numerical simulations
	Nonlinear Dynamics/	FURUKAWA, Masaru	Nonlinear phenomena-modeling and weakly nonlinear analysis
	Continuum Mechanics		· Stability, bifurcation, and pattern formation in fluid motions
			· Wave phenomena in magnetized plasmas
			Theory of singular perturbation
	Computational Material	ISHII, Akira	Atomic and electronic structure catalysis for coupling reactions
	Science/	HOSHI, Takeo	· Mathematical model for socio dynamics
	Computational Physics and		• Ultra-large-scale electronic structure theory and nano-structure process
	Engineering		· Algorithm design for large-freedom physical simulations (ex. krylova subspace theory, parallel
			computation, optimality-guaranteed algorithms)
	Electronic structure calculation	KOTANI, Takao	• Methodological development of the first-principles electronic structure calculations, especially, to include electronic correlations.
	Galestation		• Reliable prediction of the fundamental physical properties for materials such as transition-metal compounds.
			• First principles study on atomic structure of materials.
			• In particular, surface structures and phase transition of structures.
	Nano Dynamics and Tribology/	MATSUOKA, Hiroshige	• Research on molecular gas/liquid-film lubrication
	Molecular Fluid Dynamics	DOI, Toshiyuki	• Research on computational tribology
	J-22-20	- ,,	• Research on dynamics of information storage systems
			• Research on molecular interactions and surface interactions
			Ultra-high accuracy measurements of tribological phenomena
			· Research on rarefied gas flows

Thermal and Energy System NAKAI, Tonau OAKAI, Tonau HARA, Yutaka OA	Micro-flow analysis, observation and numerical simulation Collective and cellular level behavior of micro-organisms Aeroacoustics, sound generation mechanism and noise reduction Research and development of advanced technology of wind turbine Computational fluid dynamics of wind turbines
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### ② Course of Information and Electronics

Field	Particular Area of Education and Research	Supervisor	Research Theme
Information and Knowledge Electronics	Intelligent Control	TAKEMORI, Fumiaki YOKOTA, Takayoshi ARII, Shiro	Advanced control of large scale process     Optimum scheduling of manufacturing process     Intelligent manufacturing by semantic web     Data oriented modeling and learning     Control design of human power assist system     Intelligent control for mobile robot     Geographical information processing     Optimization of transport systems     Modeling and control of moving objects     Stereo robot vision     Optimum trajectory for flexible manipulator     Integrated design of mechanism and control system for flexible multi-body system
	Computer Science and Technology	SUGAHARA, Kazunori	<ul> <li>Embedded systems</li> <li>Computer networks</li> <li>Social information systems</li> </ul>
		KAWAMURA, Takao TAKAHASHI, Kenichi	<ul> <li>Distributed systems</li> <li>Social information systems</li> <li>Agent system</li> <li>Network and information security</li> </ul>
		MURATA, Masaki MURAKAMI, Jinichi	<ul> <li>Natural language processing</li> <li>Information retrieval, information extraction</li> <li>Machine translation</li> <li>Machine learning</li> </ul>
	Knowledge Engineering	YOSHIMURA, Kazuyuki SHIMIZU, Tadaaki	<ul> <li>Nonlinear science</li> <li>Information processing using nonlinear dynamics</li> <li>Digital speech signal processing</li> <li>Signal processing using neural networks</li> </ul>
		KIMURA, Shuhei TOKUHISA, Masato	<ul> <li>Evolutionary computation</li> <li>Bioinformatics</li> <li>Semantic and emotion analysis in natural language processing</li> <li>Information technology applications in tourism</li> </ul>
		IWAI, Yoshio NISHIYAMA Masashi	Computational interaction     Pattern recognition     Human media processing     Augmented reality

Field	Particular Area of Education and Research	Supervisor	Research Theme
Electronic Engineering Engineering Engineering Engineering		NAKAGAWA, Tadao	<ul> <li>Wireless communications and optical wireless communications for wearable devices</li> <li>Physical layer signal processing for wireless communications</li> <li>Radio frequency circuit design</li> </ul>
	ITOH, Yoshio	<ul> <li>Adaptive signal processing</li> <li>Digital signal processing</li> <li>Digital communication system</li> </ul>	
	SASAOKA, Naoto	<ul> <li>Speech enhancement</li> <li>Digital wireless communication system</li> <li>Active noise control</li> </ul>	
		KONDO, Katsuya	Computer vision     Bioimage analysis and medical engineering     Development of smart measurement control system
		MISHIBA, Kazu	<ul><li>Image processing</li><li>Computational photography</li><li>Graph signal processing</li></ul>
	Electrical and Electronic Systems Engineering	OHKI, Makoto	<ul> <li>Evolutionary algorithm for multi-objective symbolic optimization problems</li> <li>Real-world applications of evolutionary optimizing algorithm</li> <li>Self-Organizing map applied for large-scale multi-dimensional data</li> </ul>
		NAKANISHI, Isao	<ul> <li>Digital signal processing</li> <li>Speech signal processing</li> <li>Biometrics authentication system</li> </ul>
		NISHIMURA, Ryo	<ul> <li>Application of renewable energy technology, such as desalination of brackish water, for arid-land development</li> <li>Application of electrostatics and high voltage technology</li> </ul>
	Electronic Materials and Device Engineering	ICHINO, Kunio	<ul> <li>Study on wide bandgap semiconductors for optical/power devices</li> <li>Study on high-efficiency solar cells</li> <li>Study on high-efficiency ultraviolet/visible light-emitting devices</li> </ul>

Field	Particular Area of Education and Research	Supervisor	Research Theme
Electrical and Electronic Engineering	Electronic Materials and Device Engineering	ABE, Tomoki	<ul> <li>Study on crystal growth of wide bandgap semiconductors for optical devices</li> <li>Development of blue-ultraviolet optical detectors</li> <li>Development of blue-ultraviolet optical modulators</li> <li>Study on high efficient ultraviolet light emitting devices</li> </ul>
		OHMI, Koutoku	<ul> <li>Research on electroluminescent displays</li> <li>Development of wavelength conversion phosphor film for plant growth</li> <li>Development of wavelength conversion phosphor film for solar panel</li> <li>Research on phosphors for white LED applications</li> </ul>
		LEE, Sang-Seok	MEMS devices for bio/chemical/medical applications     Micro/nano technologies for aerospace applications     Design and application of metamaterials     RFMEMS and power MEMS devices

③ Course of Chemistry and Biotechnology

Field	Particular Area of Education and Research	Supervisor	Research Theme
Applied Chemistry	Green Catalysis Chemistry	KATADA, Naonobu TSUJI, Etsushi	<ul> <li>Principles and application of zeolites and solid acid catalysis</li> <li>Conversion of heavy oil components, methane and biomass into useful materials</li> <li>Synthesis of structured functional materials</li> <li>Creation of photocatalysts for use of natural energy</li> </ul>
	Main Group Element Chemistry	NANJO, Masato	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
Applied Electrochemistry  Molecular Self-assembly	SAKAGUCHI, Hiroki USUI, Hiroyuki	<ul> <li>Synthesis of lithium or Sodium storage intermetallic compounds and their properties as anode materials in lithium batteries</li> <li>Development of all solid-state secondary batteries</li> <li>Design, preparation and characterization of new type of high density hydrogen storage materials</li> <li>Development of energy storage materials based on photovoltaics</li> </ul>	
	Molecular Self-assembly	MATSUURA, Kazunori	Creation and application of artificial virus structures     Construction of nanostructures by self-organization of biomolecules     Creation of artificial bio-systems     Creation of light-responsive nano/microstructures     Design and creation of smart fluorescent materials
	Design of Functional Molecules	KOBAYASHI, Kazuhiro	Synthesis of heterocyclic compounds     Synthesis of biologically active compounds
	Organic Material Chemistry	SAIMOTO, Hiroyuki IFUKU, Shinsuke	<ul> <li>Synthesis and reaction of polyols</li> <li>Synthesis and utilization of chiral compounds</li> <li>Efficient utilization of untapped resources</li> <li>Development of bionanofiber materials</li> <li>Preparation of functional materials from biomacromolecules</li> </ul>
	Synthetic Organic Chemistry	ITOH, Toshiyuki NOKAMI, Toshiki	<ul> <li>Development of enzymatic reaction in an ionic liquid solvent system</li> <li>Development of iron salts-catalyzed reaction</li> <li>Synthesis of partly fluorinated analogues of biologically active molecules</li> <li>Chemical glycosylation for oligosaccharide synthesis</li> <li>Organic materials for energy storage devices.</li> <li>Creation and application of functional ionic liquids</li> <li>Development of polar ionic liquids for energy-efficient biorefinery</li> </ul>

Field	Particular Area of Education and Research	Supervisor	Research Theme
Applied Chemistry	Inorganic Materials Chemistry	MASUI, Toshiyuki	<ul> <li>Synthesis and application of environment-friendly color materials</li> <li>Design of new phosphors based on rare earth compounds</li> <li>Development of inorganic sunscreens</li> </ul>
Biotechnology	Applied Technology of Biological Resources	OHSHIRO, Takashi SUZUKI, Hirokazu	<ul> <li>Discovery and application of novel functions of microorganisms and marine algae</li> <li>Application and development of the functions of microorganisms and marine algae to the practical production of useful substances and the solutions of environmental problems</li> <li>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</li> <li>Enzyme evolution technology with high mutafacient thermophile</li> </ul>
	Biocatalyst Engineering	OKAMOTO, Kenji HARADA, Hisashi	<ul> <li>Isolation and production of bioactive compounds from basidiomycetes</li> <li>Determining the mechanism of action of bioactive compounds from basidiomycetes</li> <li>Production of lignocellulose-degrading enzymes, ethanol and xylitol by basidiomycetes</li> <li>Pathway engineering for the production of functional isoprenoids</li> <li>Functional characterization of isoprenoid biosynthesis genes in higher plants and microalgae</li> <li>Production of useful materials by microalgae</li> </ul>
	Protein Engineering	KAWATA, Yasushi MIZOBATA, Tomohiro	Structure and function of enzyme and protein     Protein folding     Protein stability and conformational change     Molecular chaperone and protein fibrillogenesis (aggregation)
	Bioorganic Chemistry	KISE, Naoki SAKURAI, Toshihiko	Enantioselective synthesis of physiologically active compounds     Stereo selective synthesis using electron transfer reaction     Organic synthesis of functional biomacromolecules     Design and characterization of supramolecular biomaterials
	Biophysical Chemistry	NAGANO, Shingo HINO, Tomoya	Structural biology of natural products biosynthesis     Molecular basis of nitrogen metabolism by anammox bacteria     Structural biology of thermal sensation     Structural biology of membrane proteins

(4) Course of Social Systems and Civil Engineering

Field	Particular Area of Education and Research	Supervisor	Research Theme
Civil Engineering	Structural and Concrete Engineering	TANIGUCHI, Tomoyo ONO, Yusuke	<ul> <li>Structural design of infra-, mechanical and offshore structures</li> <li>Earthquake-resistant performance of infra-, mechanical and building structures</li> <li>Maintenance of infra-, mechanical and offshore structures</li> <li>Earthquake response analysis of civil structures</li> <li>Simulation of earthquake disasters</li> </ul>
		KURODA, Tamotsu YOSHINO, Akira	<ul> <li>Self-compacting, high strength and multi-functional concrete</li> <li>Application of industrial waste products to concrete</li> <li>Durability assessment of concrete and concrete structures</li> <li>Repair and strengthening for concrete and concrete structures</li> <li>Prediction of deterioration and maintenance for concrete structures</li> </ul>
	Geotechnical and Rock Engineering	NAKAMURA, Koichi	<ul> <li>Constitutive properties of saturated and unsaturated soils</li> <li>Prevention and reduction of ground disasters</li> <li>Dynamic properties of soils</li> <li>Slope disaster mitigation and monitoring</li> </ul>
		NISHIMURA, Tsuyoshi KOUNO, Masanori	<ul> <li>Mechanics and numerical modeling of discontinuous rock mass</li> <li>Tunnel support/reinforcement mechanics based on the NATM concept</li> <li>Rock slope stability and landslide hazard protection</li> <li>Elastic property of rock</li> </ul>
	Hydraulic and Coastal Engineering	HINOKIDANI, Osamu	River and lake hydraulics     River and lake engineering     River disaster and monitoring
		KUROIWA, Masamitsu	<ul> <li>Numerical model of waves and nearshore currents</li> <li>Coastal sediments and prediction of coastal geomorphological change</li> <li>Maintenance of river-mouth, port and harbor</li> <li>Coastal disaster and monitoring</li> </ul>
	Geo-spherical Environmental and Architectural Engineering	KAGAWA, Takao SHIOZAKI, Ichiro	<ul> <li>Strong ground motion estimation</li> <li>Effects of fault rupture process and surface geology on earthquake ground motion</li> <li>Seismological and EM (electromagnetic) study on structure and dynamics of crust and upper mantle</li> <li>EM Applications on seismology and volcanology</li> </ul>
		ASAI, Hideko	Architectural planning     Architectural environment

Field	Particular Area of Education and Research	Supervisor	Research Topics
Social Systems Engineering	Management Systems	KOYANAGI, Junji	<ul> <li>Quantitative quality evaluation for service-oriented systems</li> <li>Applied probability</li> <li>Reliability and maintenance theory</li> <li>Queuing system</li> </ul>
	Regional Systems Planning	FUKUYAMA, Kei KUWANO, Masashi	<ul> <li>Institutional design and analyses of regional socio-economic systems</li> <li>Economic analyses of urban systems</li> <li>Public policy evaluation</li> <li>Activity – travel behavior analysis</li> <li>Infrastructure planning and management, transportation engineering, and urban planning</li> <li>Local disaster prevention planning</li> <li>Participatory risk communication</li> </ul>
		TANIMOTO, Keishi TSUCHIYA, Satoshi	<ul> <li>Methodologies for sustainable society planning</li> <li>Planning theory of local transport system</li> <li>Design and analysis of daily support services</li> <li>Disaster risk assessment and management for transportation system</li> </ul>
	Disaster Prevention Planning	OTA, Takao	<ul> <li>Soft- disaster prevention based on evacuation simulation</li> <li>Ocean-air coupled modeling</li> <li>Performance evaluation of coastal structures under damage progression</li> <li>Maintenance management model for infrastructure</li> </ul>
	Environmental Planning	HOSHIKAWA, Yoshiko MASUDA, Takanori	<ul> <li>Risk assessment of environmental chemicals</li> <li>Application of microorganisms for establishing recycling based society</li> <li>Maintenance and management of water and waste water system</li> <li>Water quality control and management</li> <li>Current issues in global environmental protection</li> </ul>

 $\Re$ Subject to change due to personnel changes

# 検定料振込依頼書

### 記入要領等

ご 依 頼 日 欄 :振込年月日を記入してください。

振 込 先 欄 :山陰合同銀行鳥取営業部又は鳥取銀行湖山支店のどちらかを選び〇印を付けてください。

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:住所欄は、郵便番号及び電話番号もご記入願います。

- ※ 第1回入学試験を志願する者は平成29年7月13日(木)~平成29年7月25日(火)までに, 第2回入学試験を 志願する者は平成29年11月1日(水)~平成29年11月10日(金)までの期間に振込みをしてください。
- ※ 必ず銀行窓口(郵便局, ゆうちょ銀行を除く。)で払い込んでください。(ATMは利用しないでください。)
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### <u>検定料振込済証明書</u> (大学提出用)

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※ 本票は、出願書類に貼り付けし、大学へ提出してください。

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