

Academic Year of 2018

Master's Program

Department of Dryland Science

Graduate School of Sustainability Science, Tottori University

Application Guidelines

for

Entrance Examination for October Admission

-Pre-arrival Admission-

| | |
|-------------------------|---|
| Application Period | Monday, April 2, 2018 ~ Wednesday, April 25, 2018 |
| Examination Period | Monday, May 15, 2018 ~ Thursday, May 31, 2018 |
| Announcement of Results | 11 a.m. Friday, July 6, 2018 |

Master's Program

Department of Dryland Science

Graduate School of Sustainability Science, Tottori University

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**Academic Year of 2018 Master's Program Department of Dryland Science
Graduate School of Sustainability Science, Tottori University**

**Entrance Examination for October Admission -Pre-arrival Admission-
Application Requirements**

Graduate School of Sustainability Science is conducting an Entrance Examination for October Admission -Pre-arrival Admission- to recruit creative, independent and enthusiastic students from both internal and external institutions and train them to produce excellent scientists. This entrance exam is open for international students.

1. Department, Courses, Positions Available, Field of Education and Research

| Department | Course | Positions Available | Field of Education and Research |
|-------------------------------|----------------------------|---------------------|---|
| Department of Dryland Science | Special Program in English | A few | See "List of Fields of Education and Research" on page 7. |

The Special Program in English will offer the whole course work in English to develop scientists with advanced skills to carry out projects that can contribute to the international society.

2. Qualification Requirements

Applicants must fulfill one of the criteria given from (1) to (10) below.

- (1) Graduated or expected to graduate from a four year university program on or before the end of September 2018.
- (2) Awarded or expected to be awarded a bachelor's degree by the National Institution for Academic Degrees and Quality Enhancement of Higher Education following the School Education Law Article 104 Clause 4 on or before the end of September 2018.
- (3) Have finished or expected to finish 16 years of formal education in a foreign country on or before the end of September 2018.
- (4) Have finished or expected to finish 16 years of formal education of a foreign country on or before the end of September 2018 by completing Correspondence Education courses provided by the country in questions while residing in Japan.
- (5) Have finished or expected to complete a program provided by an educational institution which owns degree programs offered in foreign countries (only the program that grants the diploma for 16 years of formal education in the said foreign country) which is also recognized as a formal educational institution in the said county while authorized by the Minister of Education, Culture, Sports, Science and Technology on or before the end of September 2018.
- (6) Have been awarded or expected to be awarded a degree equivalent to bachelor's by completing program duration of which is more than 3 years (includes the case of finishing 16 years of formal education of a foreign country by completing Correspondence Education courses provided by the country in question while residing in Japan, and the case of obtaining degree specified by (5) when graduating from an educational

institution recognized by the foreign country in question) at a university or other form of school in a foreign country (limited to the institutions with their educational quality such as education and research activities recognized by the evaluators approved by the government of the foreign country in question or other relevant authorities, or institutions specifically recognized by its equivalent by the Minister of Education, Culture, Sports, Science and Technology) on or before the end of September 2018.

- (7) Have finished upper-level course of a specialized training college (limited to the course duration of which is more than 4 years and meets other requirements provided by the Minister of Education, Culture, Sports, Science and Technology), which is specially approved by the Minister of Education, Culture, Sports, Science and Technology, after the date provided by the Minister of Education, Culture, Sports, Science and Technology or be expected to finish above mentioned course before the end of September 2018.
- (8) Specially recommended by the Minister of Education, Culture, Sports, Science and Technology (Public notice Item 5 by Ministry of Education in 1953)
- (9) Reach or have reached 22 years old on or before September 30th 2018 whose qualification is recognized to be equivalent or higher than those who graduated from a four year university program by individual qualification evaluation at the Graduate School of Sustainability Science.
- (10) Admitted to a graduate school by the School Education Law Article 102 Clause 2, and one's academic performance is recognized to be suitable for the Graduate School of Sustainability Science.

Applicants who are applying under (9) or (10) category must contact the Academic Affairs Section of Faculty of Agriculture, Tottori University through the prospective primary supervisor and get an application form for qualification evaluation which should be submitted no later than Tuesday, March 13 2018. The result of evaluation will be announced by Monday, March 26, 2018.

3. Application

(1) Period

Applications must be submitted from Monday, April 2, 2018 to Wednesday, April 25, 2018.

(2) Application Procedures

Applicants must fill and submit the documents listed in the table below to the prospective primary supervisor.

| | |
|---|--|
| ① Application Form | Use provided form |
| ② Manuscript of Oral Examination Presentation | Using the attached format as a reference, describe the research to be conducted after admission utilizing what you've learned previously in 1 page on A4 paper. Manuscript must be prepared in English. |
| ③ Research Proposal | Applicants must submit detailed research plans to be conducted at Department of Dryland Science. It must be written in English. (Format not specified) (A4 size paper, 4 - 6 pages) |
| ④ Academic Transcript and Letter of Recommendation | Applicants must submit an academic transcript issued by the head of last educational institution attended. Must be sealed in an envelope. In addition to that, foreign applicants must submit a letter of recommendation which can be prepared by an academic supervisor, immediate supervisor of currently affiliated research institution or current employer. |
| ⑤ TOEIC or TOEFL Score etc. | Applicants must submit the original copy of TOEIC or TOEFL certificate obtained within 2 years prior to the application submission. Foreign applicants who graduated from universities of countries that use English as official language who are planning to stay in Japan with visa status of "student") are not required to submit this. Instead, a document that verifies completion of university education in English issued by the president or its equivalent authority of the university should be submitted. The certificate will be returned. |
| ⑥ Certificate of (expected) Graduation | The certificate must be issued by an authorized person of applicant's degree granting institute. |
| ⑦ Examination Fee | 30,000 Japanese Yen |
| ⑧ Certificate of Degree Award or Certificate of Expected Degree Award | Only applicants who are applying under (2) category are required to submit this. Applicants expected to complete junior colleges or advanced courses of technical colleges must submit the certificate of expected degree award and documents to verify application for bachelor's degree conferment. |
| ⑨ Passport etc. (Foreign Applicants Only) | Foreign applicants must submit a copy of passport. |
| ⑩ Certificate of Health | Applicants must submit a certificate of health completed by a medical doctor within six months of application date. |

4. Entrance Examination

Applicants will be evaluated based on document screening and oral or internet-based interview.

(1) Document Screening

Based on the TOEIC/TOEFL scores etc. and academic transcripts, language proficiency and basic knowledge will be evaluated.

(2) Internet-based Interview

Applicants must participate in the Internet-based interview. The interview will be conducted during the period of Tuesday, May 15, 2018 to Thursday, May 31, 2018.

5. Applicants with Physical Disability

Applicants with physical disability should submit a document (formats not specified) stating following along with a doctor's note or copy of physical disability certificate to the Academic Affairs Section of Faculty of Agriculture through the prospective primary supervisor by Tuesday, March 13, 2018 to discuss possibly required assistance/accommodations at examination.

(1) Applicant's name and address (Phone number should be provided as well)

(2) Desired field of education/research

(3) Graduated university, faculty and department etc.

(4) Type and level of disability

(5) Accommodations necessary for examination

(6) Accommodations necessary for course completion

(7) Accommodations made at the graduated university

(8) Description of daily life

6. Announcement of Examination Result

11 a.m. Friday, July 6, 2018

The result will be posted at the entrance of Faculty of Agriculture, Tottori University. The original copy of the letter of acceptance will be sent out to accepted applicants via mail.

7. Admission Process

Instructions for admission process will be individually notified to accepted applicants.

(1) Processing Documents etc.

- Dossier, photograph mount for student ID etc.

(2) Entrance Fee 282,000 Japanese Yen (Tentative)

(3) Tuition Fees 535,800 Japanese Yen / year [First Semester: 267,900 Yen, Second Semester: 267,900 Yen] (Tentative)

- Tuition Fees must be paid in November (First Semester) and May (Second Semester)

- Payment instructions will be provided to accepted applicants

(NOTES) a. Once submitted, the entrance fee will not be refunded under any conditions.

b. Students who wish to get an entrance/tuition fees waiver (or collection postponement) should not submit the entrance/ tuition fees upon admission process.

c. Above stated entrance/tuition fees amounts are tentative and may change at any time. Students will be asked to pay the revised amount while taking courses at Tottori University.

(4) Personal Accident Insurance for Students Pursuing Education and Research

Students of Tottori University are required to be covered by the Personal Accident Insurance for Students Pursuing Education and Research to ensure safe and secure college life. The premium costs 1,750 yen per two years coverage. This premium, which covers the insured when any injuries occur, is considerably cheaper than the premium of private insurance plans.

(NOTE) This is an accident insurance which covers any injuries occurred while insured students are participating regular or extracurricular curricular activities, commuting to school, or being on campus. For more details, please contact the Health Science Center (E-mail hokekanjimu@ml.adm.tottori-u.ac.jp).

(5) Place of Admission Process 4-101 Koyama-cho Minami, Tottori
Academic Affairs Section of Faculty of Agriculture, Tottori University

8. Extended Course System

This system provides students with fulltime occupation a chance to plan and complete the course within certain period of time (maximum of 4 years) beyond average period required for course completion (2 years).

Same amount paid for 2 year course tuition will split into 3 (or 4) according to the plan.

Applicants who wish to use this system should contact the Academic Affairs Section of Faculty of Agriculture upon admission process.

9. Entrance Fee Exemption (deferment) and Tuition Exemption

Entrance or tuition fees (full or half amount) can be exempted if students meet one of the following conditions and university sees the extreme difficulty of entrance or tuition fees payment. Selection will be based on the application.

- (1) Extreme difficulty paying for entrance or tuition fees although academic performance is excellent.
- (2) Within one year prior to the admission, defrayer of academic expenses has deceased, or either self or defrayer of academic expenses got affected by natural disasters.
- (3) Meets condition (2) and President of Tottori University recognizes the needs of waive in provided condition.
For more details, please contact Scholarship Section of Student Support Division, Student Affairs Department.
(E-mail st-syougaku@ml.adm.tottori-u.ac.jp)

10. Student Loan of Entrance Fee and Tuition Fees

Students can receive student loan of entrance fee or tuition fees from the designated banks on condition that students apply for exemption and deferment payment of entrance fee or tuition fees and sign up for student loan after receiving their results of loan review.

(Eligible Applicants)

- Those who meet the criteria for exemption among the applicants for exemption and deferment payment of entrance fee or tuition fees

※Students may not be able to receive student loan depending on their results of loan review by the banks.

※Repayment to pay off the principal and interest starts after completion on a monthly basis. Tottori University pays for the interest while the students are enrolled in the university.

For more details, please contact Scholarship Section of Student Support Division, Student Affairs Department.

(E-mail st-syougaku@ml.adm.tottori-u.ac.jp)

11. Scholarship

Students who cannot afford to pay and are recognized as academically and personally outstanding, and healthy may be eligible to receive a scholarship. Selection will be based on the application.

For more details, please contact Scholarship Section of Student Support Division, Student Affairs Department.

(E-mail st-syougaku@ml.adm.tottori-u.ac.jp)

12. Others

Please contact the prospective primary supervisor for any inquiries related to application, examination and admission.

Oral Examination Manuscript Format

A4 (210 mm × 297 mm)

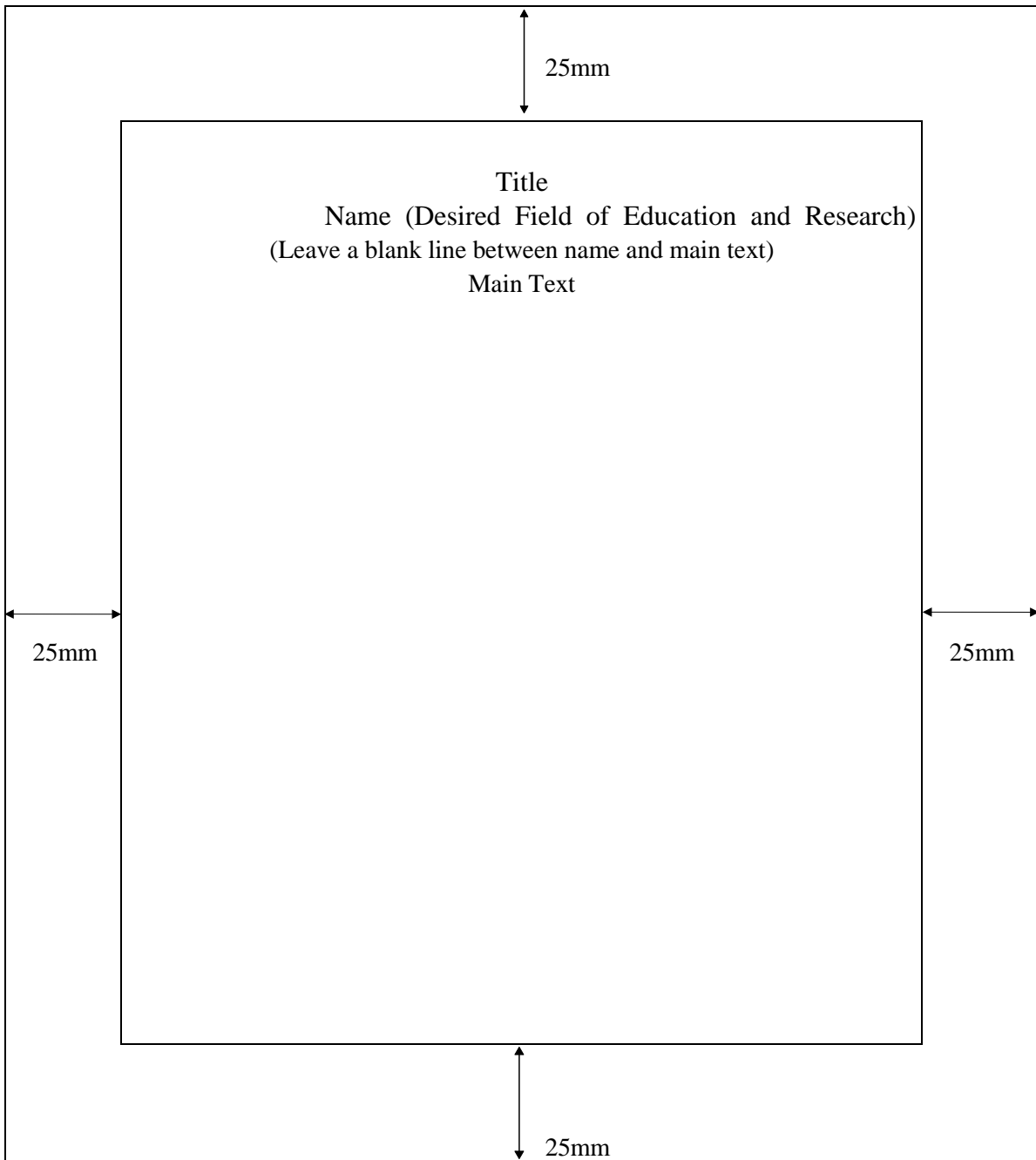
Font size etc.:

Title, name and desired field of education and research: 12 point

Main text: 11 or 12 point

Title should be centered and name (desired field of education and research) should be aligned to the right.

Based on your knowledge, describe the research you'd like to conduct at the graduate school including research plan, background, and methods etc. You may include tables and figures (black and white). Manuscript must be typed with word processor.



List of Fields of Education and Research

| Department | Course | Field of Education and Research | Faculty Member | Keyword 1 | Keyword 2 | Keyword 3 | Keyword 4 | Keyword 5 |
|----------------------------------|--|--|--------------------------|---------------------------------------|--|--|--|-----------------------------------|
| Department of Dryland Science | General Program/Special Program in English | Soil and Water Management | Koji INOSAKO | Restoration of farm land | Soil-Plant-Atmospheric continuum system | Irrigation and drainage | Desalinization | Environmental biophysics |
| | | Dryland Environmental Resources | Tsuneyoshi ENDO | Soil resources | Irrigated agriculture | Behavior of salts | Soil salinization | Environmental remediation |
| | | Construction and Management Engineering of Facility in Rural Regions | Hidehiko OGATA | Irrigation and drainage facilities | Farm road | Functional diagnosis | Stock management | Frost damage |
| | | Molecular Breeding | Hisashi TSUJIMOTO | Wheat | Stress tolerance improvement | Germplasm enhancement | Chromosome engineering | Food shortage |
| | | Conservation Informatics | Atsushi TSUNEKAWA | Environmental evaluation and modeling | Remote sensing | GIS | Regional environmental planning | Sustainable Land Management |
| | | Dryland Geomorphology | Paolo Billi | River geomorphology | River hydrology | Sediment dynamics | Gully erosion | Land degradation |
| | | Irrigation and Drainage in Drylands | Haruyuki FUJIMAKI | Water-saving irrigation | Water harvesting | Leaching | Salinization | Erosion |
| | | Agricultural Development Studies | Kumi YASUNOBU | Area studies | Farm management studies | Technology diffusion | Rural development | Common resource management |
| | | Plant Nutrition | Satoshi YAMADA | Salinity | Mineral absorption | Crop quality | Aquaponics | Water saving |
| | | Revegetation Science in Drylands | Norikazu YAMANAKA | Revegetation in arid areas | Ecosystem restoration | Forest ecology | Drought and salt tolerance of woody plants | Water relations of plants |
| | | Environmental soil science | Sadahiro YAMAMOTO | Conservation oriented agriculture | Salt affected soils | Soil quality assesment | Soil organic matter | Soil formation and classification |
| | | Sustainable Land Management | Nigusie Haregeweyn AYEHU | Land degradation | Sustainable land management | Integrated watershed management | Spatial analysis | Hydrologic modeling |
| | | Plant Eco-Physiology | Ping AN | Environmental stresses | Mechanisms | Dry lands agriculture | Saline soils | Halophytes |
| | | Dryland Health and Medicine | Shinji OTANI | Global health | Environmental medicine | Travel medicine | Infectious disease | Noncommunicable diseases |
| | | Dryland Restoration and Conservation Ecology | Toshihiko KINUGASA | Arid and semi-arid grassland | Global environmental change | Human disturbance | Secondary succession | Plant matter production |
| | | Applied Meteorology in Drylands | Reiji KIMURA | Boundary layer meteorology | Hydrometeorology | Remote-sensing | Aridity monitoring | Dust |
| | | Dryland Climatology | Yasunori KUROSAKI | Climatology & meteorology | Aeolian dust | Wind erosion | Climatic variation | Desertification |
| | | Land Environment and Conservation | Tadaomi SAITO | Soil water and solute movement | Interaction among soil, water and vegetation | Soil erosion | Environmental measurement techniques | UAV(Drone) |
| | | Agricultural Water Use and Management | Katsuyuki SHIMIZU | Agricultural water use | Field hydrology | Assessment of water delivery performance | Soil salinization | Micro hydropower |
| | | Renewable Energy Engineering | Kotaro TAGAWA | Solar and wind energy | Energy generation and conversion | Evaluation of energy system | Desalination | Heat and mass transfer |
| | | Microbiology in Drylands | Takeshi TANIGUCHI | Microbial ecology | Ecosystem restoration | Use of rhizosphere microorganisms | Metagenome | Mycorrhizal fungi |
| | | Crop Production in Drylands | Eiji NISHIHARA | Medicinal plants | Allelopathy | Mitigation of replant problem | LED light in plant factory | Biochar |
| | | Facilities and Environmental Materials | Masahiro HYODO | Buried pipe | Evaluation of the residual strength | Environmental materials | Restoration of aquatic environment | Industrial by-product |
| | | Global Change Ecology | Fei Peng | Global change | Field experiments | Desertification | Plant-soil interactions | Ecosystem |
| | | Environmental Inorganic Chemical Toxicology | Sawako HORAI | Trace elements | Wildlife | Human | Ecosystem | Risk assessment |
| | | Theoretical Physics | Natsumi IKENO | Relativistic quantum mechanics | Strong interaction | Meson | Nucleus | Numerical calculation |
| | | Agricultural Extension Studies | Asres Elias BAYSA | Agricultural extension studies | Gender and development | Agricultural economics | Rural development | Africa |
| Hydrospheric Environment Science | Yumi YOSHIOKA | Groundwater | Water cycle | Irrigation water use | Evaluation of socioeconomic factor | Irrigation and drainage | | |

Academic Year of 2018
Master's Program Department of Dryland Science
Graduate School of Sustainability Science, Tottori University
Entrance Examination for October Admission -Pre-arrival Admission-

| | | | |
|---|---|---|----------------------------|
| Application Form | | Examinee's Number ※ | |
| Department | Department of Dryland Science | Course | Special Program in English |
| Field of Education/Research | | | |
| Name | ENG | <u>Photo</u> Attach a photo of upper body part taken from the right front, without hat/caps. Must be the picture taken within 3 months. L: 4 cm W: 3 cm | |
| | JPN | | |
| | (Required for Japanese applicants) | | |
| Sex | <input type="checkbox"/> Male · <input type="checkbox"/> Female | | |
| Date of Birth | Year | Month | Day |
| Qualification | University Faculty (School) of Department of YYYY MM <input type="checkbox"/> Graduation / <input type="checkbox"/> Expected Graduation / <input type="checkbox"/> Completion / <input type="checkbox"/> Expected Completion | | |
| Current Address | Zip Code | TEL | |
| Result Notification Address (List only if it differs from the current address) | Zip Code | TEL | |

- Notes
1. Circle on the items that apply
 2. Fill all column except for the ones marked with “※”
 3. **All applicants must communicate with their prospective primary supervisor of desired Field of Education and Research before submitting the application form.**

| | | | | |
|--|--|--|---------------------------|---|
| Name of Examinee | | | Examinee's Number | ※ |
| Emergency Contact Information | Name | ENG | Relationship to Applicant | |
| | | JPN <small>(Required for Japanese people)</small> | | |
| | Address | Zip code | TEL | |
| Resume <p>Applicants who are applying under (3), (4) or (6) of Qualification Requirements must fill all column including the ones of Primary Education (Elementary School) and Secondary Education (Middle School).</p> | | | | |
| | Name and Address of School | | Period of Attendance | Year and Month of Entrance and Completion |
| Example | (Name) <i>Tottori Elementary School</i> | | 6 years | (From) <i>2000.4</i> |
| | (Location) <i>Tottori City, Tottori, Japan</i> | | | (To) <i>2006.3</i> |
| Primary Education (Elementary School)※ | (Name) | | years | (From) |
| | (Location) | | | (To) |
| Secondary Education (Middle School)※ | (Name) | | years | (From) |
| | (Location) | | | (To) |
| (High School) | (Name) | | years | (From) |
| | (Location) | | | (To) |
| Tertiary Education (Undergraduate) | (Name) | | years | (From) |
| | (Location) | | | (To) |
| (Graduate Level) | (Name) | | years | (From) |
| | (Location) | | | (To) |
| | (Name) | | years | (From) |
| | (Location) | | | (To) |