



岐阜大学
流域水環境リーダー育成プログラム

Gifu University Rearing Program for Basin Water Environmental Leaders



Gifu University
Rearing Program for Basin Water
Environmental Leaders

(<http://www.green.gifu-u.ac.jp/BWEL/eng/index.html>)

A satellite-style map of East Asia, showing Japan, Korea, and parts of China and the Philippines. The map is oriented vertically, with the top of the page showing the Korean peninsula and the bottom showing the Philippines. The text is overlaid on the right side of the map.

PROGRAM OVERVIEW

Gifu University Rearing Program for Basin Water Environmental Leaders (BWEL) is aimed at fostering environment leaders who can deal with serious basin water environmental issues such as water quality, water resource, irrigation, ecosystems and so on faced by developing countries in Asia and Africa.

For successful implementation of the program, soon after its adoption by the government, Gifu University assembled its academic human resources distributed mainly in the River Basin Research Center, the Graduate School of Natural Science and Technology*, the Graduate School of Engineering, and the United Graduate School of Agricultural Science; and formed a strong collaborative implementation force to foster environmental leaders through students' studies in either master's program or doctoral course/program of the relevant departments/divisions of the Graduate School of Natural Science and Technology, the Graduate School of Engineering, and the United Graduate School of Agricultural Science.

*Graduate School of Natural Science and Technology was established in April 2017 by reorganization and consolidation of the existent master's courses of the Graduate School of Engineering, Graduate School of Applied Biological Sciences and the Division of Frontier Medical Sciences of the Graduate School of Medicine.

Thanks to the great support from domestic and overseas off-campus institutions and enterprises, from its start in 2009, 195 students including 159 learning for master's degree (71 Japanese students and 88 international students from Asia) and 36 for doctoral degree (two Japanese students and 34 international students from Asia) have successfully completed their studies. Currently, 37 students from Japan, Bangladesh, China, Indonesia, Mongolia and Vietnam are learning under the program.


A satellite-style map of East Asia, showing the Korean Peninsula, Japan, and parts of China. The map is oriented vertically, with the Korean Peninsula on the left and Japan on the right. The landmasses are shown in shades of green and brown, with blue representing the surrounding oceans.

MAJOR CONTENTS AND CHARACTERISTICS OF THE EDUCATION PROGRAM

To help the students of the program build a stronger and comprehensive foundation in their basic knowledge on water environment and strengthen their application capabilities, the specialized subjects related to basin water environment are extracted from the existent subject group of each postgraduate department among the Department of Civil and Environmental Engineering, the Department of Energy Engineering and the Department of Agricultural and Environmental Science of the Graduate School of Natural Science and Technology as contemporary subjects. Complementary subjects are also offered to reinforce students' fundamental knowledge base and basic application capabilities related to basin water environment. In addition to that, to foster the students' capabilities to understand the occurring background and mechanisms of regional and global environmental issues from various social and cultural aspects, the subjects in humanities and social sciences fields related to the environment are also designed, as well as the subjects aiming to improve students' knowledge and skills on latest water environment monitoring methodologies and water quality control strategies depending on the social infrastructure improvement situation in developing countries.

Regarding the research topic for the master's degree thesis, four research domains, namely "Basin water environment monitoring and assessment", "Water quality analysis, assessment and water treatment", "Basin environment and ecosystem assessment and management" and "Basin environmental policy and management" are arranged. In addition, for each domain specific research subjects corresponding to environmental problems in developing countries are also extensively designed.


By experiencing such a characteristic curriculum, the international students learn Japanese excellent environmental technologies in a form that can be applied in developing countries; and as international leaders after completing the program they are expected to play active part in technical



development and policy promotion of basin water environments corresponding to the challenges in developing countries. While Japanese students as domestic leaders, they are expected to take leadership roles in technological development and policy promotion of basin water environments responding to the problems in developing countries.

1. SUBJECTS

- 1) Nominated specialized subjects: to help the students solid their basic expertise bases, specialized subjects related to basin water environment are extracted from the existent subject group of each relevant department.
- 2) BWEL original subjects: a number of original subjects (including 3 special lectures, one special practice) associated with the latest techniques for basin scale environmental monitoring and assessment, as well as water environment control technologies responding to the social infrastructure and maintenance situation of developing countries are provided, together with other 4 seminar-style subjects (Regional Environment Cultural Studies, Global Environment Cultural Studies, Regional Environment Social Studies, Global Environment Social Studies) for expansion of students' knowledge and view on urgent basin and global water environmental issues, sharing of consciousness and for enhancement of international communication skills. By learning these subjects, the students of the rearing program can acquire the ability of finding water environmental problems faced by the developing countries and understanding the background behind the occurrence of problems, and therefore the ability to devise strategic solutions and to design effective countermeasures. Besides, the prospective students of the program will have opportunities to participate in internships at companies, and local and national government bodies.
- 3) Complementary subjects: 7 mutual supplementary subjects (4 engineering subjects, 3 agriculture subjects) among the three departments open to all prospective students are also designated.



Through these subjects, the prospective students of the program are expected to be able to reinforce their fundamental knowledge base and basic application capability related to basin water environment.

2. RESEARCH TOPICS

In regard of the research topic for the master's degree thesis, four research domains are designed and are available for students to choose: Basin water environment monitoring and assessment; Water quality analysis, assessment and water treatment; Basin environment and ecosystem assessment and management; and Basin environmental policy and management; and within each domain, several research directions and topics are proposed.

3. FINANCIAL SUPPORT

For excellent foreign students who have financial difficulties, financial aids including a full exemption of Entrance Fees and Tuition will be provided for the standard study time length needed for obtaining the master's degree. Please see the application form for details.

4. COMPLETION CERTIFICATE FOR PROGRAM STUDENTS

For students who complete the program, the special certificate of “Certificate of International Environmental Leadership in recognition of the fulfillment of the requirements for Gifu University Rearing Program for Basin Water Environmental Leaders” will be awarded by the president of Gifu University in addition to the master's degree from the Graduate School of Natural Science and Technology where they are admitted.





Call for Applicants for Admission into Gifu University Rearing Program for Basin Water Environmental Leaders

1. Expected Students


Candidates meet the followings will be considered for admission into the rearing program:

- (1) Have high will toward the acquirement of knowledge and skills needed to deal with various environmental problems, particularly, problems in basin water environment faced by developing countries; and want to play an active role globally.
- (2) Wish to learn knowledge in humanities and social science that have strong relations with basin water environment, and to learn the latest specialized knowledge in the field.
- (3) Have high communication ability with either English or Japanese, or have a strong will to achieve such ability through the rearing program.
- (4) Have solid ethical sense and desire to contribute as environmental leaders in their home countries.
- (5) Desire to take a leading role in international environmental cooperation and exchanges.

2. Selection Method and Application Documents

(1) Foreign Students

Foreign students presently living abroad are first admitted into the university as non-degree research students for six months. Using the period

A satellite-style map of Japan, showing the main islands and surrounding waters. The map is positioned at the top of the page, with the text area below it.

as a research student, one can prepare for entrance examination required by the graduate school for a master's degree study (two years) within one of the three departments hosting the rearing program: the Department of Civil and Environmental Engineering, the Department of Energy Engineering and the Department of Agricultural and Environmental Science of the Graduate School of Natural Science and Technology, while learning basic knowledge and some laboratory work under the guidance of their prospective supervisors of choice.

* Research students: Those who want to study for a specific research subject in Gifu University may be admitted as a non-degree research student. In most Japanese universities, many applicants get admission as a research student first and prepare for entrance examination required for entering a graduate school for a master's or doctoral degree.

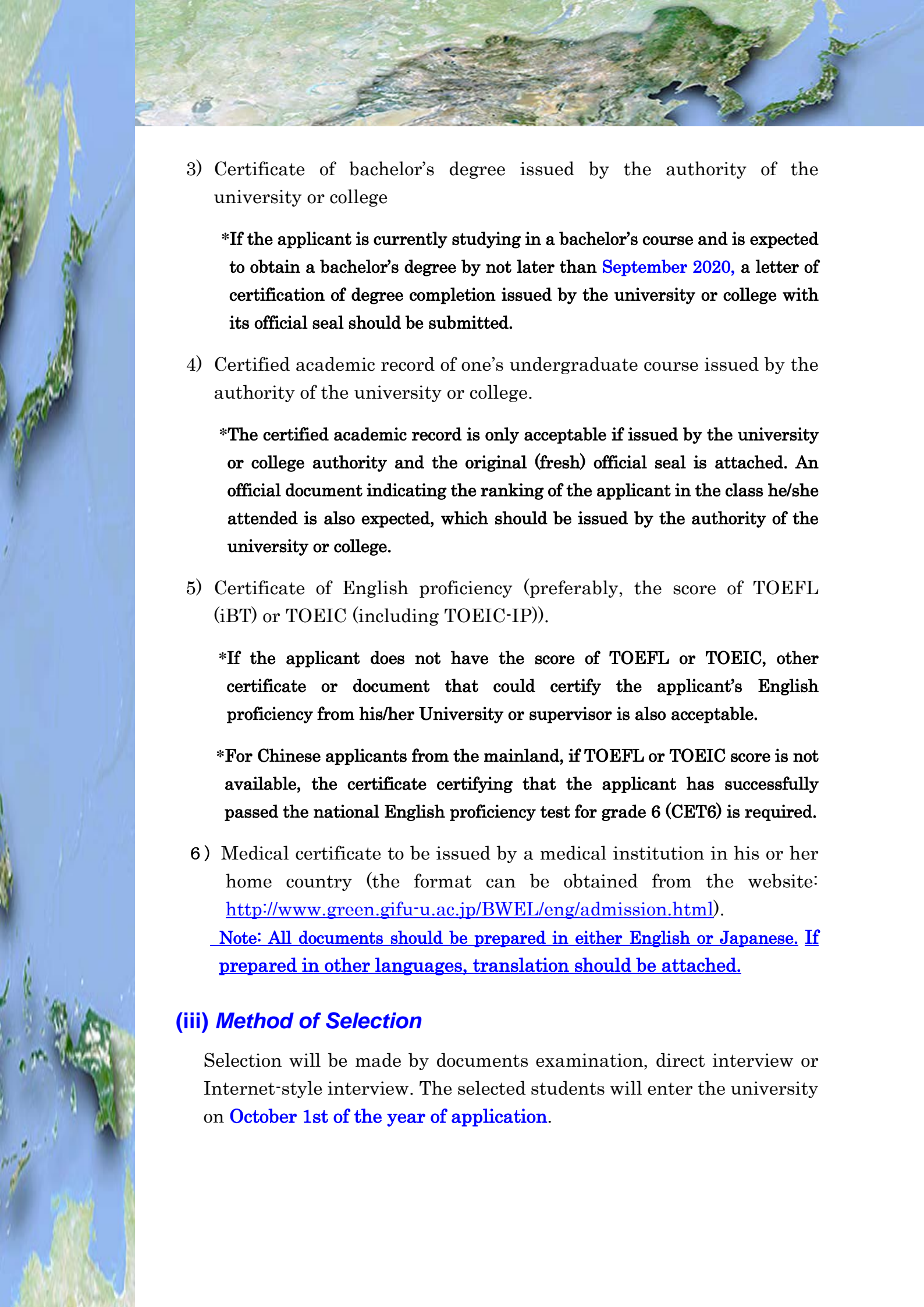
Admission as a Research Student

(i) Qualifications for Application

- 1) Those who have completed a 16-year course of school education overseas or will complete it by September of the year of application.
- 2) Those who have a bachelor's degree from an overseas educational institution (including those who are studying in a master's course) or will be awarded a degree by September of the year of application.

(ii) Documents to be submitted

- 1) Application form (the format can be obtained from the website:
<http://www.green.gifu-u.ac.jp/BWEL/eng/index.html>)
- 2) Certificate of completion of university or college work issued by the appropriate authority of the university or college
***If the applicant is currently studying at a university or college and is expected to complete his/her undergraduate study by not later than **September 2020**, a letter of expected completion to be issued by the university or college with its official seal should be submitted.**

- 
- A satellite-style map of East Asia, showing the Korean Peninsula, Japan, and parts of China and Russia. The map is oriented vertically, with the Korean Peninsula on the left and Japan on the right. The landmasses are green and brown, while the surrounding oceans are blue.
- 3) Certificate of bachelor's degree issued by the authority of the university or college

***If the applicant is currently studying in a bachelor's course and is expected to obtain a bachelor's degree by not later than [September 2020](#), a letter of certification of degree completion issued by the university or college with its official seal should be submitted.**

- 4) Certified academic record of one's undergraduate course issued by the authority of the university or college.

***The certified academic record is only acceptable if issued by the university or college authority and the original (fresh) official seal is attached. An official document indicating the ranking of the applicant in the class he/she attended is also expected, which should be issued by the authority of the university or college.**

- 5) Certificate of English proficiency (preferably, the score of TOEFL (iBT) or TOEIC (including TOEIC-IP)).

***If the applicant does not have the score of TOEFL or TOEIC, other certificate or document that could certify the applicant's English proficiency from his/her University or supervisor is also acceptable.**

***For Chinese applicants from the mainland, if TOEFL or TOEIC score is not available, the certificate certifying that the applicant has successfully passed the national English proficiency test for grade 6 (CET6) is required.**

- 6) Medical certificate to be issued by a medical institution in his or her home country (the format can be obtained from the website: <http://www.green.gifu-u.ac.jp/BWEL/eng/admission.html>).

[Note: All documents should be prepared in either English or Japanese. If prepared in other languages, translation should be attached.](#)

(iii) Method of Selection

Selection will be made by documents examination, direct interview or Internet-style interview. The selected students will enter the university on [October 1st of the year of application](#).

A satellite-style map of Japan, showing the main islands and surrounding waters. The map is positioned on the left side of the page, extending from the top to the bottom.

Admission to Graduate Schools for Master's Degree

(i) Prior Suitability Evaluation

Based on the learning situation at the university as a research student, evaluation will be made before the entrance examination for graduate school to see if the student is suitable as the candidate for the rearing program of basin water environmental leaders. This will be performed based on the views of his or her academic supervisor, and an oral examination if required (including presentation).


(ii) Entrance examination

Following the prior suitability evaluation, the student can take the entrance examination of one of the three departments for a master's degree study (two-year program): Department of Civil and Environmental Engineering, Department of Energy Engineering and Department of Agricultural and Environmental Science of Graduate School of Natural Science and Technology. For application documents and procedures, one can refer to the application booklet of the Graduate School of Natural Science and Technology for details.

* As mentioned earlier that, since foreign students will be admitted into the university as a research student first, the preparation and submission for application documents needed for the graduate school can be done during the time when he or she is on the campus as a research student.

* English is a compulsory subject required by all departments. But for the Department of Civil and Environmental Engineering and the Department of Energy Engineering, English examination of their own will not be held. The English score of the examinees for the entrance examination will be converted from the score of TOEFL (iBT) or TOEIC that the examinees must take before or soon after they enters Gifu University. The time for submission of the score of TOEFL (iBT) or TOEIC by each examinee is before the entrance examination held generally in December.

(2) Japanese Students

A satellite-style map of Japan, showing the main islands and surrounding waters. The map is positioned at the top of the page, with a vertical strip on the left side showing a closer view of the Japanese archipelago.

Japanese students for the rearing program will be selected from those who pass the entrance examination required for master degree studies (two years) by one of the three departments hosting the rearing program: the Department of Civil and Environmental Engineering, the Department of Energy Engineering and the Department of Agricultural and Environmental Science of Graduate School of Natural Science and Technology. Selection will be made based mainly on an oral examination if required (including presentation).

3. Address for Inquiry and Documents Submission

(1) Basin Water Environmental Leaders Promotion Office,
River Basin Research Center, Gifu University
1-1 Yanagido, Gifu 501-1193, Japan
TEL: +81-58-293-2085
FAX: +81-58-293-2062
E-mail: bwel@green.gifu-u.ac.jp

(2) Prospective supervisor

If you have already contacted a prospective supervisor, you may submit documents to him or her directly.

*For general information about Gifu University and the environmental leaders rearing program, please access to the following websites:

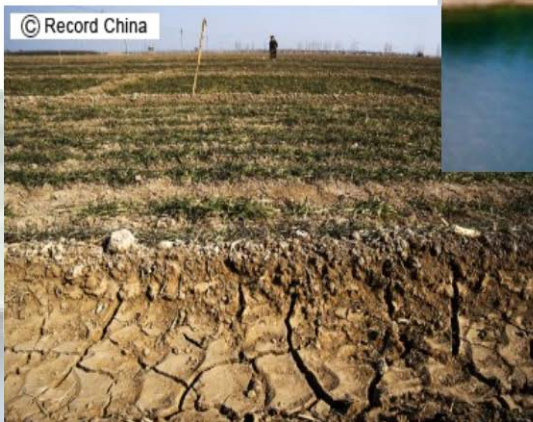
University: <http://www.gifu-u.ac.jp/en/>

Rearing Program: <http://www.green.gifu-u.ac.jp/BWEL/eng/>

(3) Deadline for submission of the required documents for admission as a research student is **April 15, 2020 (for arrival by postal mail)**.

*Submission documents will not be returned.





**Promotion Office of
Gifu University Rearing Program for Basin Water
Environmental Leaders,
River Basin Research Center,
1-1 Yanagido, Gifu 501-1193, Japan
TEL: +81 58 2932085,
FAX: +81 58 2932062**

E-mail: bwel@green.gifu-u.ac.jp

(<http://www.green.gifu-u.ac.jp/BWEL/eng/index.html>)