

2012

Nagasaki University  
Graduate School of Engineering  
Master's Degree  
Department of Advanced Engineering

Guidelines for Applicants  
(Supplementary Call for Applications)

Japan-China-Korea Interuniversity Cooperative Project of  
Fostering Water Environment Leading Engineers

Special Entrance Examinations for Overseas Students

Nagasaki University, Graduate School of Engineering

Bunkyo 1-14, Nagasaki, 852-8521, Japan

TEL +81-95-819-2491 (direct)

FAX +81-95-819-2488

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## **Overview of Japan-China-Korea Interuniversity Cooperative Project of Fostering Water Environment Leading Engineers and the Establishment of a Special Overseas Students Program**

On the basis of the agreements of the “Deepening of the Three Country’s Common Benefits and Cooperation” and the “Promoting of Exchange and Cooperation among Universities” agreements signed at the Japan, China, and Korea Trilateral Summit (held in October of 2009), the Ministry of Education, Culture, Sports, Science and Technology-Japan founded the Japan–China–Korea Committee for Promoting Exchange Cooperation among Universities in 2010. Under this project, Japanese universities proactively accept overseas students, mainly from China and Korea into the commonly growing fields, and provide an environment where they can engage in friendly competition with Japanese students. Their intention is to provide practical education through cooperation with the industry, and to thus develop highly skilled professionals.

The Nagasaki University Graduate School of Science and Technology proposed an educational program, which was then adopted, with the title of “Japan-China-Korea Interuniversity Cooperative Project of Fostering Water Environment Leading Engineers—Development of Technology in East Asia that Supports the Conservation and Sustainable Use of Water Environments.”

The mission of the adopted educational program is to popularize and distribute Japan’s water environment technologies in the form of a package throughout the East Asia region, while reducing the burden on the environment due to economic growth of various East Asian countries; thus, making a significant contribution to the sustainable growth of these regions. In addition, the educational goal is to develop highly specialized engineers who can assume leadership on the international level in the technological development of the assumed field, and who are equipped with the practical ability to solve the technological problems involved in the conservation and sustainable use of water environments in East Asia.

In order to fulfill this goal, two special programs are offered in the Graduate School of Engineering, Master’s Degree, Department of Advanced Engineering. These programs aim at fostering highly specialized leading engineers having outstanding practical ability to address the development of specialized technology such as water environment diagnosis, evaluation methods, waste water disposal, water quality improvement, water purification, and desalination of sea water, and thereby contribute to eradicating the problems of East Asia.

## Admission Policy

On the basis of the Japan-China-Korea Interuniversity Cooperative Project of Fostering Water Environment Leading Engineers, overseas students, mainly from China and Korea will be accepted into the Civil and Environmental Engineering Program and Chemistry and Materials Engineering Program, which are the two courses of the University's Graduate School of Engineering, Master's Degree, Department of Advanced Engineering. Within these two courses, the following two programs which implement the special curriculum based on the assumed project have been established: "Water Environment Conservation Program" and the "Water Disposal and Use Program." The former program should mainly provide technologies that can be used in environmental assessment, water environment monitoring, and water environment restoration. In the latter program, the goal is to develop technologies that should be used for drainage treatment and water purification using polymer materials, desalination of seawater using membrane technology, and mercury and arsenic microanalysis. These special programs are composed of a Water Environment Specialization Foundation Course taught in English (Mandatory), a Problem-Based Learning Course (PBL Course), and a long-term internship through close cooperation with domestic corporations, and are designed to provide a high quality practical education. In addition, overseas students who complete this program will be strongly supported in seeking employment at Japanese companies.

Overseas students who understand the aforementioned principles, educational goals, and the content of education, and also have a strong interest in eradicating the various water environment problems of East Asia through the use of water environment technologies, which are Japan's forte, will be accepted into the program. For this purpose, special entrance examinations will be conducted for applicants based on the recommendation of the presidents of the specified partner institutions (five Chinese Universities and five Korean Universities). In addition, a candidate must have secured outstanding academic achievements from an affiliated department or graduate department. (However, Japanese citizens shall not be considered for this program).

## 1. Number of Students to be Admitted

Field	Course	Number of Students to be Admitted
Department of Advanced Engineering	Civil and Environmental Engineering Program	1
	Chemistry and Materials Engineering Program	

## 2. Eligibility for Application

A person who does not hold Japanese citizenship and falls under all of the following three categories:

(1) A person who falls under either ① or ②

① A person who is enrolled in one of the following partner institutions and who is expected to graduate by March 2012.

② A person who graduated (will graduate) from one of the following partner institutions sometime after April 2011 and before the last day of the application period.

[Partner Institutions]

China	Tongji University, Shanghai Ocean University, Shandong University, Shandong University of Science and Technology, Fuzhou University
Korea	Jeju National University, Pukyong National University, Kangwon National University, Chonbuk National University, Chonnam National University

(2) A person with an outstanding character for whom the dean or the head of the applicant's university or the university he/she graduated from (school, department, or graduate program) can take responsibility as his/her recommendation referrer, and one who can commit to the Graduate School of Engineering, Nagasaki University if selected.

(3) A person whose academic standing is in the top quintile of his/her department or graduated department.

## 3. Period of Application

Thursday, December 15, 2011 to Thursday, December 22, 2011 (Received by)

## 4. Application Procedure

Applicants must complete the application procedure by the designated deadline and submit the documents to their university. (These documents will be forwarded to Nagasaki University by the corresponding university after the application period is over).

Necessary Documents	Notes
Application for Enrollment (Form prescribed by Nagasaki University Graduate School of Engineering)	Indicate the name of the desired program (“Civil and Environmental Engineering” or “Chemistry and Materials Engineering”).
Photo Card/Entrance Examination Ticket (Form prescribed by Nagasaki University Graduate School of Engineering )	Indicate the name of the desired program.
Certificate of Graduation/Certificate of Expected Graduation	Issued by the president of the applicant’s university or the president of the applicant’s university of graduation
Official Transcript of Grades	Issued by the president of the applicant’s university or the president of the applicant’s university of graduation
Letter of Recommendation (Form prescribed by Nagasaki University graduate school of Engineering )	Written by the dean or head of the applicant’s university or the university he/she graduated from (School, Department, or Graduate program).

## 5. Application Precautions

- (1) Changes to the content of applications are not permitted once application procedures have been completed.
- (2) Application documents shall not be returned for any reason.

## 6. Methods of Selection

Enrollees are selected through an interview and an oral examination.

### (1) Examination Venue and Date

Partner Institution Examination Venue		Examination Date/Examination Time
China	Tongji University	<p>Early January</p> <p>(Dates and details will be decided in coordination with the person in charge at the partner institution.)</p>
	Shanghai Ocean University	
	Shandong University	
	Shandong University of Science and Technology	
	Fuzhou University	
Korea	Jeju National University	
	Pukyong National University	
	Kangwon National University	
	Chonbuk National University	
	Chonnam National University	

※ Applicants will take the examination at their universities or the universities they graduated from.

## (2) Criteria for Acceptance

Interviews and oral examinations are evaluated using the following methods and successful applicants are selected in the order of their total scores. However, applicants must score a minimum of 60 points in total.

[Method of Evaluation]

Individual interviews will be held by multiple examiners. ① and ② below are added to give scores of up to a maximum 100 points.

- ① Applicants will be asked questions in reference to their application documents and are evaluated on topics such as motives behind application, motivation to study, general knowledge, and social skills (allocation of 30 points).
- ② Applicants are evaluated on such things as basic academic ability and specialization knowledge in regard to (a) and (b) for oral examination (allocation of 70 points).
  - (a) Basic Academic Ability : Applicants will be evaluated on their basic academic ability in subjects such as English and mathematics, as well as the subject that the Applicant chooses among the following subjects at the time of application: physics, chemistry or biology.
  - (b) Specialized Knowledge : Applicants will be evaluated on their specialized knowledge of water environmental issues, water resources, and water use.

## 7. Supplementary Acceptance

We may place a supplementary call for applications if there are fewer than ten (10) successful Applicants who completed the enrollment procedures.

## 8. Announcement of Successful Applicants

Tuesday, January 17, 2012 10:00

- ※ Selection results will be sent to the president of applicant's university in writing, and the successful applicant will receive a notification of results from the university.
- ※ A list of successful applicants will be made available on the Nagasaki University Graduate School of Engineering website from 10:00 on the same day.

URL:[http://www.eng.nagasaki-u.ac.jp/contents/8-4-3.html/h24-2successful\\_applicants.pdf](http://www.eng.nagasaki-u.ac.jp/contents/8-4-3.html/h24-2successful_applicants.pdf)

- ※ Results are not declared over the telephone.

## 9. Enrollment Procedures

Successful applicants must carry out the enrollment procedures during the following period (Details will be given in a separate notice):

Wednesday, January 18, 2012 to Wednesday, January 25, 2012

## Education Goal of Human Resources Development (Diploma Policy)

Our aim is to foster highly specialized leading engineers with outstanding practical ability, and having an accurate grasp of the situation in Asia, to eradicate these problems. In order to secure safe drinking water and solve the serious problems of water quality in rivers and coastal areas and sedimentary contamination in China and Korea, which comprise the core countries in the “East Asia Community,” the student will learn about Japan’s various technologies related to water environment.

### ①Water Environment Conservation Program

To develop human resources that have the expertise to create a safe and sustainable water environment and practical research ability to investigate real-world problems, who can contribute to water environment conservation in Asia.

### ②Water Disposal and Water Use Program

To develop human resources that have the expertise in chemistry, material sciences, and the practical research ability to investigate real-world problems, who can contribute to the development of scientific technology related to water disposal and use in Asia.

## Purpose of Education and Research Programs (Curriculum Policy)

Our aim is at providing with an educational program for fostering highly specialized leading engineers who are able to respond to the needs of water environment conservation and the disposal and use of water in Asian countries such as China and Korea. The curriculum assists students in gaining in-depth expertise and broad interdisciplinary knowledge, as well as in learning practical abilities, presentation skills, and Japanese business culture.

### ①Water Environment Conservation Program

To assist students in acquiring a broad expertise of water environment conservation and their sustainable use, as well as Japanese and Asian language and culture. Based on this foundation, we aim to develop their ability and enable their active participation in various interdisciplinary fields.

### ②Water Disposal and Water Use Program

To assist students in acquiring knowledge of natural sciences and expertise in material sciences, as well as in Japanese and Asian languages and cultures. Based on this foundation, we aim to develop and enable their active participation in interdisciplinary fields related to disposal and water use.



2012 Nagasaki University Graduate School of Engineering Master's Degree

Application for Enrollment

(Japan-China-Korea Interuniversity Cooperative Project of Fostering Water Environment Leading Engineers—Special Entrance Examinations for Overseas Students)

		Entrance Examination Applicant No.		※											
<p>President of Nagasaki University</p> <p>I wish to enroll for the Nagasaki University Graduate School of Engineering Master's Degree and hereby enclose the prescribed documents and Entrance Examination Fee.</p> <p>Day      Month      Date,      Year</p> <p style="text-align: right;">Name (Add furigana) _____</p> <p style="text-align: right;">Date of Birth      Year      Month      Date      M/F</p>															
Department	Department of Advanced Engineering														
Preferred Program (Circle One)	Civil and Environmental Engineering Program Chemistry and Materials Engineering Program														
Basic Academic Abilities (Circle One)	Physics / Chemistry / Biology														
Current Address	Zip/Postal Code: _____ <div style="text-align: right;">TEL (      )      —</div>														
University or School Affiliation	<table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">Year</td> <td style="width: 15%;">Month</td> <td style="width: 20%;">University</td> <td style="width: 20%;">Undergraduate School</td> <td style="width: 30%;">Graduated Graduation Anticipated</td> </tr> <tr> <td>Year</td> <td>Month</td> <td>University</td> <td>Graduate School</td> <td>Enrolled Graduation Anticipated</td> </tr> </table>					Year	Month	University	Undergraduate School	Graduated Graduation Anticipated	Year	Month	University	Graduate School	Enrolled Graduation Anticipated
Year	Month	University	Undergraduate School	Graduated Graduation Anticipated											
Year	Month	University	Graduate School	Enrolled Graduation Anticipated											

Notes:

1. Do not fill in ※-marked box.
2. Please enter your name as it appears on your family register or alien registration card.

Personal History						
Educational Background	School Name	Year	Date of Enrollment/Graduation			Qualification (Degree)
		Yr.	Enrollment Graduation	Year Year	Month Month.	
		Yr.	Enrollment Graduation	Year Year	Month Month	
		Yr.	Enrollment Graduation	Year Year	Month Month	
		Yr.	Enrollment Graduation (Expected Graduation)	Year Year	Month Month	
		Yr.	Enrollment	Year Year	Month Month	
		Yr.	Enrollment	Year Year	Month Month	
Employment History	Place of Employment (Job Title)	Period of Employment				
		Yr.	Year    Month–Year    Month			
		Yr.	Year    Month–Year    Month			
		Yr.	Year    Month–Year    Month			
Awards and Certificates	Details			Year    Month		
<p>I hereby confirm that the information provided above is true.</p> <p>Day    Month    Date,    Year</p> <p style="text-align: center;">Name (Signature) _____</p>						

Notes:

1. Please provide details of your educational background starting with your elementary school.
2. Please write “N/A” if you do not have any history of employment or awards or any convictions.
3. Following enrollment, the university reserves the right to terminate the enrollment in the event that any false information is discovered in the above personal history.

## Photo Card

(Japan-China-Korea Interuniversity Cooperative Project of Fostering Water Environment  
Leading Engineers—Special Entrance Examinations for Overseas Students)

Entrance Examination Applicant No.	※		
Name		Sex	M/F
Department	Department of Advanced Engineering		
Preferred Program (Circle One)	Civil and Environmental Engineering Program Chemistry and Materials Engineering Program		

Photo (4 cm × 3 cm)  
Upper Body, no hat,  
facing straight ahead,  
photographed within  
the past 3 months

----- Do Not Detach -----

## Entrance Examination Ticket

(Japan-China-Korea Interuniversity Cooperative Project of Fostering Water Environment  
Leading Engineers—Special Entrance Examinations for Overseas Students.)

Entrance Examination Applicant No.	※		
Name		Sex	M/F
Department	Department of Advanced Engineering		
Preferred Program (Circle One)	Civil and Environmental Engineering Program Chemistry and Materials Engineering Program		

Photo (4 cm × 3 cm)  
Upper Body, no hat,  
facing straight ahead,  
photographed within  
the past 3 months

----- Do Not Detach -----

# Letter of Recommendation

Month      Date      Year

President of Nagasaki University

(Affiliation • Title)

Referrer

Name

Official stamp

I hereby take responsibility for recommending the person named below as a suitable candidate for the first semester of the Nagasaki University Graduate School of Engineering Master's Degree Department of Advanced Engineering.

Preferred Program		Applicant's Name	
Grade Ranking in the applicant's Department or Graduated Department (              rank out of              people)			
Reasons For Recommendation			
Please write the theme of the applicant's research (structuring design).			

(Note) This letter of recommendation must be filled and submitted by the Dean or head of the applicant's university or the university he/she graduated from (School, Department, or Graduate Program).