

Fall 2021 Enrollment

**Graduate School of Environmental & Symbiotic Sciences  
Application Guide for Admission  
(PhD Program)**

**Selection Method for Non-Japanese**

**(Special Admission Quota for International Postgraduate Scholarship  
for Research on Mercury)**



**Prefectural University of Kumamoto**

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## **Admission Policy of Graduate School of Environmental & Symbiotic Sciences**

### 1 Goals for Human Resources Development

#### ●PhD Program

##### (1) Human Resources Development for Professions

Since the social demand for skilled professionals with advanced knowledge of environmental issues is quite strong, we aim to foster highly-specialized experts with specialized and academic knowledge of environmental symbiosis, with the goal of placing them in leadership positions.

##### (2) Fostering Researchers

We aim to foster knowledgeable professionals who can play active roles as educational researchers in environmental fields at universities and academia as a whole, or who can play active roles in leadership positions at public research institutions or corporate labs.

##### (3) Higher Education in Specialized Field for Adults

By promoting open-door policies for adults, we aim to provide opportunities to reexamine adults' specialized fields from environmental points of view, and foster trained professionals who have wide and specialized knowledge of environmental symbiosis.

##### (4) Fostering Non-Japanese

Accepting adult students with master's degrees (or comparable academic ability) from overseas, we aim to foster trained professionals prepared for leadership positions who have learned basic principles, gained specialized knowledge, and mastered techniques of environmental symbiosis.

### 2 Images of Human Resources Sought

#### ●PhD Program

Based on the philosophy of the Graduate School of Environmental & Symbiotic Sciences, we seek postgraduates who, through the completion of the Master's

Degree Program, have acquired basic academic ability, specialized knowledge, and presentation/language skills in their area of expertise, and also who show aspirations to do further advanced research; or persons who have practical R&D (research and development) experience in fields related to environmental and symbiotic sciences.

### 3 Entrance Examination

We evaluate students' examination papers holistically by an achievement test (English, Specialized subject), an interview and, screening of the documents (Research plan, etc.).

**List of Entrance Examination Dates & Admission Quota**  
**(Special Admission Quota for International Postgraduate Scholarship for**  
**Research on Mercury)**

PhD Program

**【Entrance Examination Dates】**

	Qualification Screening of Applicants Period	Application Period	Entrance Examination Date	Announcement of Examination Results	Enrollment Procedures
Fall Enrollment	<b>From Monday, April 5 to Friday, April 9, 2021</b> <b>* Results will be announced by Friday, April 23,2021</b>	<b>From Thursday, May 6 to Friday, May 14, 2021</b> <b>*Applicant screening results and an admission ticket will be sent by Friday, June 4, 2021</b>	<b>Saturday, July 3, 2021</b>	<b>Monday, July 12, 2021</b>	<b>From Monday, September 6 to Friday, September 10, 2021</b>

**【Admission Quota】**

Fall Enrollment	2 students
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**PhD Program, Graduate School of Environmental & Symbiotic Sciences,  
Prefectural University of Kumamoto (Fall 2021 Enrollment)  
Selection Method for Non-Japanese  
(Special Admission Quota for International Postgraduate Scholarship  
for Research on Mercury)**

**1 Admission Quota**

Division of Environmental & Symbiotic Sciences: 2 students

**2 Qualification of Applicants**

Those who wish to be admitted to the PhD Program must meet the conditions and one of the following qualifications.

- (1) Applicants who have a master's or professional degree, or are expected to be awarded one by September, 2021.
  - (2) Applicants who have a master's or professional degree from a school overseas, or are expected to be awarded one by September, 2021.
  - (3) Applicants who have a master's or professional degree by taking subjects in an overseas correspondence course in Japan, or are expected to be awarded one by September, 2021.
  - (4) Applicants who have a master's or professional degree, or are expected to be awarded one by September, 2021, after completing a program at an educational institution in Japan which is recognized by the overseas country as having a graduate program and which is deemed eligible by the Japanese Minister of Education, Culture, Sports, Science and Technology.
  - (5) Applicants who are designated eligible by the Minister of Education, Culture, Sports, Science and Technology. (Ministry of Education Notification No. 118, 1989)
  - (6) Applicants who are recognized by the Graduate School of Environmental and Symbiotic Science as having academic aptitude equal to or higher than that of a master's or professional degree holder, as verified by the individual admission qualification screening, and at least 24 years of age.
- (Note) Qualification screening of applicants will be conducted prior to the application period for applicants who fall under conditions (5) or (6).  
Screened applicants who have valid qualification results do not need to be

screened again. Please refer to "Applying after Qualification Screening of Applicants" on page 6.

#### Condition

Those who do not have Japanese nationality, except foreign permanent residents in Japan, foreign students who have a master's or professional degree from a school in Japan, or are expected to be awarded one by September, 2021. For details, please refer to 1(1) and (2) on "Prefectural University of Kumamoto International Postgraduate Scholarship for Research on Mercury" on page 14.

### 3 Application Period

From Thursday, May 6 to Friday, May 14, 2021

**Applications must arrive at our Academic Affairs and Entrance Examinations Division by 17:00 on Friday, May 14, 2021**, in person or by mail. Applications which have not arrived there by the deadline will not be accepted under any circumstances. Applicants should submit them well in advance.

If application documents are brought in person, they will be accepted from 9:00 to 17:00 (except from 12:20 to 13:20).

### 4 Application Procedures

#### (1) Application Method

Applicants must submit the documents described in (2) below in person or by mail. If application documents are sent by mail, they should be sent by EMS.

#### (2) Application Documents

① Application for Admission	On the prescribed form by the Graduate School
② Admission Ticket and Photo Sheet	On the prescribed form by the Graduate School (The photo must have been taken within three months of applying, with a full-face view directly facing the camera without a hat against a plain background. Please write your full name on the back of a photograph.)
③ Curriculum Vitae	On the prescribed form by the Graduate School
④ Research Plan	On the prescribed form by the Graduate School

	Summary indicating the research process such as master's thesis and research plan on mercury research * Please attach a detailed research plan.
⑤ Official Transcript (Sealed)	Official transcript issued by the latest university or the school (original copy only). <b>* Please attach an English translation for transcripts issued in other languages.</b>
⑥ Graduation Certificate or Expected Graduation Certificate	Certificate issued by the last university or the school. (original copy only) <b>* Please attach an English translation for transcripts issued in other languages.</b>
⑦ Please attach the copy of certificate to prove when the name on the official transcript and the graduation certificate is different from the present one.	
⑧ Recommendation Letter	Recommendation Letter from a supervisor at the graduate school (from the employer if employed at the time of application).
⑨ Confirmation Sheet on Preliminary Consultation	Summary of preliminary consultation with the prospective supervisor's signature and seal
⑩ Applicants who fall under condition (5) or (6) on page 4 and use valid results of qualification screening need to submit a copy of Approval Notice of Application Qualification. *Please refer to "Applying after Qualification Screening of Applicants" below.	

Applying after Qualification Screening of Applicants

- Qualification of Applicants (5) or (6)-
- Submitting a certificate and an official transcript for applying
  - When applicants are deemed eligible for application after applying for the qualification screening for 2021 Entrance Examinations, a graduation certificate and an official transcript will be omitted only for applying for 2021 Entrance Examinations.
- Validity period for the result of Qualification Screening
  - The result of Qualification Screening certifying eligibility eligible is valid for 5 years. When applying using the valid result, please attach a copy of the "Approval Notification of Application Qualification".



(3) Place of Submission

Entrance Examination Section for Graduate School, Academic Affairs and  
Entrance Examinations Division, Prefectural University of Kumamoto  
3-1-100 Tsukide, Higashi-ku, Kumamoto, 862-8502

(4) Admission Ticket for Examination

An admission ticket for examination will be sent to the applicants by mail  
by Friday, June 4, 2021, regardless of whether applicants brought the  
application documents in person or by mail.

Please contact the Academic Affairs and Entrance Examination Division  
(TEL +81-96-321-6610) if the admission ticket has not arrived by the day, or  
if you lost the ticket before the day of the entrance examination.

(5) Application Consideration

- ① Prescribed forms by the Graduate School in "4(2) Application Documents"  
on page 5 and "6(1) Documents to be Submitted" on page 9 are available for  
downloading from our university's website. Please print the PDF on A4-sized  
white paper.

Website address <https://www.pu-kumamoto.ac.jp/nyusi/graduate/>

- ② **Applicants must contact the Academic Affairs and Entrance  
Examination Division first to get instructions. Then, applicants  
must contact prospective supervisors** on the list of instructors on the  
Application Guide for Admission or the university's website before  
undertaking application procedures.

Entrance Examination Section for Graduate School, Academic Affairs and  
Entrance Examination Division, Prefectural University of Kumamoto  
3-1-100 Tsukide, Higashi-ku, Kumamoto, 862-8502, japan  
E-mail [nyusi@pu-kumamoto.ac.jp](mailto:nyusi@pu-kumamoto.ac.jp)

Be sure to write the name of the supervisor in the "Desired supervisor" on  
the Application Form. The actual supervisor will be subject to change after  
enrollment.

- ③ If a false statement is found in the documents, authorization of admission  
will be revoked.
- ④ Application documents are non-returnable under any circumstances.
- ⑤ Incomplete applications will not be accepted.

## 5 Selection Method

The selection of applicants will be based on the overall results of our written and oral examinations, interviews, and document screenings.

(1) Written Examination

English

(2) Oral Examination

The interview consists of a presentation focused on your master's thesis (including the process) or the other results of your research followed by questions related to your presentation. (Your presentation must include the results of your past research and your research plan on mercury study for the Doctoral course.)

(3) Examination Date

Date	Subjects	Time	Point Allocation	Total
Saturday, July 3, 2021	Written Examination English	10:00 - 11:30	100	200
	Oral Examination (Including a research presentation)	13:00 -	100	

Note 1: Please assemble on the 1<sup>st</sup> floor lobby in our Administration Building by 9:30.

2: Oral Examination time schedule will be displayed on campus on the day.

3: Late arrival up to 30 minutes will be admitted after the scheduled start of the English examination.

(4) Place of Examination

Prefectural University of Kumamoto

3-1-100 Tsukide, Higashi-ku, Kumamoto, 862-8502, japan

TEL +81-96-321-6610

(5) Oral Examination

① A presentation focused on your master's thesis (including the process) or the other results of your research: 30 minutes

② Question-and-Answer session regarding the presentation (including questions related to your research field): 20 minutes

③ An LCD projector will be available for your presentation. The university will

provide a computer and a projector. Applicants are required to bring a USB memory device or CDs and PDF data. (There is no maximum limit for the number of presentation slides.)

(6) Evaluation Criteria

English	Applicants will be evaluated according to the English abilities related to their specialized fields.
Oral Examination	Applicants will be evaluated by the knowledge, consideration, motivation, and research accomplishments and abilities for the specialized fields after explaining the past research and the research plan.

(7) Acceptance Criteria

- ① Successful applicants will be those who scored more than approximately 60% of the total score.
- ② Applicants who have an excellent research subject may be successful even though the total score falls short of the standards.  
However, applicants who have results less than 30% will not be successful in the event of any of ① or ②.

**6 To applicants who cannot travel due to the impact of the new coronavirus (SARS-CoV-2)**

If applicants cannot travel to Japan on the examination day due to limitations of departure from your country of residence or because of immigration difficulties into Japan due to the impact of the new coronavirus (SARS-CoV-2), the following measures will be applied:

- (1) If there is at least one applicant who cannot travel to Japan, an oral examination using video conferencing applications through the internet is conducted with all applicants.
- (2) The subject of English is conducted by an oral examination in English and applicants are evaluated by English abilities for the specialized fields.
- (3) The examination day is Saturday, July 3, 2021 and the examination schedule will be established after consideration of local time in countries where applicants live.
- (4) The decision whether or not to take action if travel is not possible at this time shall be made by the applicant immediately after the end of the application period by notifying the office.

(5) Examination Date

Date	Subjects	Time	Point Allocation	Total
Saturday, July 3, 2021	Oral Examination (Including a research presentation)	50 minutes (Start time is separately notified)	100	200
	English (Oral Examination in English)		100	

(6) Oral Examination

- ① A presentation that is focused on your master's thesis (including the process) or the other results of your research: 30 minutes
- ② Question-and-Answer session regarding the presentation (including questions related to your research field): 20 minutes
- ③ Live video conference (Teams, Skype, or other compatible with Teams) through the internet is used.
- ④ Applicants must submit your presentation data for oral presentation to the office by e-mail until one week before the examination day (Friday, June 25, 2021). The data will be used for the oral presentation.

(7) The evaluation and acceptance criteria follow "5 Selection Method".

## 7 Qualification Screening of Applicants

For applicants who wish to apply for admission under Qualification of Applicant (5) or (6), a qualification screening of applicants will be conducted.

(1) Documents to be Submitted

- ① Application for Qualification Screening of Applicants  
(on the form prescribed by the Graduate School)
- ② Curriculum Vitae (on the form prescribed by the Graduate School)
- ③ Official Transcripts (issued by the latest and present university or the school, including credit hours) \*original copy only
- ④ Degree Certificate or Graduation Certificate (issued by the last university or the school)
- ⑤ Details of your Research, Education, Professional Experiences, Social Activities, etc. (on the form prescribed by the Graduate School)

Please submit the details of your Research, Education, Professional Experiences, Social Activities, etc. Also please submit the separate prints (or copies) of your thesis or report if you have any.

⑥ Research Plan (on the form prescribed by the Graduate School)

A summary of your desired research (single spaced)

⑦ Copy of certificate to prove the name change \* if applicable

Please attach a copy of the certificate if the name on the official transcript and the degree (graduation) certificate are different from the present one.

\* Prescribed forms by the Graduate School in ①, ②, ⑤, and ⑥ are available for downloading from the university's website. Please print the PDF on A4-sized white paper.

Website address: <https://www.pu-kumamoto.ac.jp/nyusi/graduate/>

(2) Screening Method

Examination of submitted documents ((1) ①~⑦).

(3) Application Period for Qualification Screening

From Monday, April 5 to Friday, April 9, 2021

(Note) Applications must arrive at Academic Affairs and Entrance Examination Division by 17:00 on Friday, April 9, 2021, in person or by mail.

If application documents are brought in person, they will be accepted from 9:00 to 17:00 (Except from 12:20 to 13:20). Applications which have not arrived there by the deadline will not be accepted under any circumstances. Applicants should submit them well in advance.

If application documents are sent by mail, they should be sent by registered express mail (EMS), written "Application Form for Qualification Screening, PhD Program, Graduate School of Environmental & Symbiotic Sciences (Fall Enrollment)" in red color on the envelope.

(Place of Submission)

Entrance Examination Section for Graduate School, Academic Affairs  
and Entrance Examination Division, Prefectural University of  
Kumamoto

3-1-100 Tsukide, Higashi-ku, Kumamoto, 862-8502, Japan

(4) Results of Qualification Screening

Results of qualification screening will be sent to the applicants by Friday, April 23, 2021.

(Note) Please refer to page 6 when you apply for admission after the qualification screening.

## **8 Announcement of Examination Results**

13:30 or later, Monday, July 12, 2021

The successful applicants' examinee numbers will be announced on our website (<https://www.pu-kumamoto.ac.jp/nyusi/graduate/>) and the results will also be mailed only to successful applicants. (Inquiries regarding the examination results will not be accepted over the phone.)

A letter of acceptance is the formal notice from the university.

## **9 Enrollment Procedure**

Successful applicants need to submit the required documents along with an acceptance letter, as well as the admission fee. The payment due date for the admission fee will be notified later.

### **(1) Procedure Period**

From Monday, September 6 to Friday, September 10, 2021.

\*① Office Hours are from 9:00 to 17:00. (Except from 12:20 to 13:20)

② If enrollment documents are sent by mail, they must arrive by 17:00 on Friday, September 10, 2021.

③ Necessary documents for enrollment procedure which have not arrived there by the deadline will not be accepted under any circumstances. Applicants should submit them well in advance.

④ Those who fail to complete the enrollment procedure by the deadline will be deemed to have declined the offer of enrollment.

### **(2) Place of Procedure (Mailing Address)**

Entrance Examination Section for Graduate School, Entrance Examination Academic Affairs and Entrance Examination Division, Prefectural University of Kumamoto

3-1-100 Tsukide, Higashi-ku, Kumamoto, 862-8502, japan

### **(3) Documents to be Submitted**

Documents must be submitted in person or by mail, and if they are sent by mail, they should be sent by EMS.

① Pledge

(Pledge on Mercury Research should be submitted separately to Kumamoto Prefecture.)

(4) Admission Fee (as of 2021)

¥414,000

The payment date for the admission fee will be notified later.

(Note) If you decide to withdraw your enrollment after completion of the enrollment procedure, please contact the Academic Affairs and Entrance Examination Division by Friday, September 17, 2021. You need to submit an Enrollment Withdrawal Form.

Admission fees are non-refundable under any circumstances except when the applicants have not completed the procedure.

**10 Tuition Fee (as of 2021)**

Annual tuition fee: ¥535,800 (to be paid in two installments)

The payment deadline for the tuition fee and others will be notified later.

(Note) If the tuition fee and the due date are revised during the student's period of study, the revised tuition and the date will be applicable from the date of revision.

**11 Disclosing Examination Results to Applicants**

(1) Disclosed Information

Scores: Total scores of each examination subject

Ranking: The results and the ranking will be disclosed to applicants who did not pass the examination only when there are more than 10 applicants who did not pass.

Unsuccessful applicants will be ranked A (upper third), B (middle third), or C (lower third) according to the grades.

(2) Disclosure Period and Time

From Thursday, July 15 to Monday, August 16, 2021

Hours are from 9:00 to 17:00 (except from 12:20 to 13:20).

Disclosure results is not available on Saturdays, Sundays, and public holidays.

(3) Disclosure Method and Place

Applicants who took the entrance examinations should come to the Prefectural University of Kumamoto and request the disclosure of examination results orally at the Academic Affairs and Entrance Examination Division.

(Substitutes are not permitted to request disclosure.)

Please bring your admission ticket as for proof of identity.

## **12 Handling of Personal Information**

Personal information submitted to the Prefectural University of Kumamoto in the form of applications and enrollment documents, and grades and results of entrance examinations are handled based on Kumamoto Prefecture's Protection Law of Personal Information.

Personal information is used only for selecting applicants for admission, enrollment procedures, registration, student support, and surveys and research, and is not used for purposes other than the ones mentioned above nor is provided to third parties.

When applicants request disclosure of entrance examination results, they will be disclosed based on Kumamoto Prefecture's Protection Law of Personal Information.

## **13 Other Information**

Applicants with physical disabilities who therefore require special assistance during the exam and/or during the period of study should contact our Academic Affairs and Entrance Examination Division by Thursday, May 6, 2021.

## **14 Inquiries**

Please contact the Academic Affairs and Entrance Examination Division by e-mail if you have any questions. Only e-mail is accepted.

Academic Affairs and Entrance Examination Division  
Prefectural University of Kumamoto  
E-mail: [nyusi@pu-kumamoto.ac.jp](mailto:nyusi@pu-kumamoto.ac.jp)



**Prefectural University of Kumamoto**  
**International Postgraduate Scholarship for Research on Mercury**

Since the “Minamata Convention on Mercury” has been adopted, the Kumamoto Prefectural Government has decided to subsidize “support to foster mercury-specialized experts” to make advanced efforts in Japan and overseas for realization of a mercury-free environment.

In response to this, Prefectural University of Kumamoto has established a scholarship in 2014 sponsored by Kumamoto Prefecture to foster international researchers in the mercury research field. This scholarship is for our international students who will conduct specialized research on mercury at the Collaborative Graduate School with the Prefectural University of Kumamoto and National Institute for Minamata Disease.

Graduate School of Environmental & Symbiotic Sciences, Prefectural University of Kumamoto is recruiting international students who conduct research on environmental pollution and health effects of mercury at the Collaborative Graduate School under the Scholarship for Research on Mercury.

**1 Outline of the Scholarship in 2021**

(1) Eligibility

Applicants who pass the entrance examination of the PhD Program, Graduate School of Environmental & Symbiotic Sciences, Prefectural University of Kumamoto (Fall 2021 Enrollment), Selection Method for Non-Japanese (Special Admission Quota for International Postgraduate Scholarship for Research on Mercury), enter the Prefectural University of Kumamoto, and conduct research on mercury at the Collaborative Graduate School with National Institute for Minamata Disease.

(2) Conditions

- 1) The following countries and regions regarded as having environmental issues mercury-related.
  - a) Asia – People's Republic of Bangladesh, Kingdom of Cambodia, People's Republic of China, India, Republic of Indonesia, Republic of Iraq, Mongolia, Republic of the Philippines, Kingdom of Thailand, Taiwan
  - b) Africa – Republic of Kenya, Republic of Seychelles, United

Republic of Tanzania

c) Europe – Republic of Kazakhstan, Kyrgyz Republic

d) Latin America - Federative Republic of Brazil

2) Other countries or regions that the president accredits as advancing countries, developing countries, or the regions which are regarded as requiring environmental measures on mercury.

- ② Applicants should be age 35 or under as of April 1, 2021. However, a person admitted by the president is excepted.
- ③ Applicants who have a master's or professional degree, or are recognized by the Graduate School as having academic aptitude equal to or higher than that of a master's or professional degree holder.
- ④ Applicants who conduct research on mercury at the Collaborative Graduate School with a will to be involved with the mercury measures in the home countries or international organization after graduation.
- ⑤ Applicants who have sufficient English proficiency to study and conduct research.
- ⑥ Applicants who do not have a scholarship from the Japanese government, home countries' governments, or other private foundations.

(3) Documents to be Submitted

- ① Applicants must state that they will conduct research on mercury according to the "Research Plan" when applying for the entrance examination.
- ② Applicants must submit a Recommendation Letter from an applicants' supervisor at the university or graduate school (or a chair in the office or civil service when the applicant already graduated and employed).
- ③ Applicants must submit a Summary of Preliminary Consultation with the prospective supervisor's signature and seal.
- ④ Applicants must submit a Pledge to promise "to enter the Graduate School for conducting and continuing the research on mercury" to Kumamoto Prefecture when he or she enters the Graduate School.
- ⑤ Applicants must continue the research on mercury.

(4) Number of the Scholarship Recipients

Within the limits of the budget, no more than 2 students in above (1) as scholarship recipients

(5) Amount of Scholarship

①Entrance Fee ¥414,000 ②Tuition ¥535,800 ③Living Expenses  
¥150,000/month ④Travel Expenses up to ¥362,000 ⑤Transportation  
to/from Japan up to ¥300,000 (actual expenses)

Total: ¥3,411,800

(6) Duration of Scholarship

Regular course term

(7) Cancellation of Scholarship

The student is disqualified

- ① In the event of disciplinary action under the code of the Graduate School
- ② In the event of leaving school or being expelled
- ③ In the event of death
- ④ In the event that he/she displays inappropriate behavior such as abandonment of the research on mercury, and the Graduate School resolves the student is not appropriate as a scholarship student and the President has confirmed it.

**2 Selection of Applicants in 2021**

(1) As for the Selection of Applicants in 2021, please refer to the Application Guide for Admission.

(2) Entrance Examination Dates

Qualification Screening of Applicants Period	Application Period	Entrance Examination Date	Announcement of Examination Results
From Monday, April 5 to Friday, April 9, 2021	From Thursday, May 6 to Friday, May 14, 2021	Saturday, July 3, 2021	Monday, July 12, 2021

(3) Admission Quota: 2 students

(4) Those who recommend the applicants and applicants themselves must contact their prospective supervisor before applying and explain adequately the contents their "Recommendation Letter" and "Research Plan".

- (5) The final selection will be based on the overall results of our written examinations (English), oral examinations, interviews, and document screenings.

### **3 Scholarship in 2021**

(1) Determination of Scholarship Students

Applicants who pass the entrance examination of Selection Method for Non-Japanese (For International Postgraduate Scholarship for Research on Mercury) for Fall Enrollment and are admitted to enter the Graduate School of Environmental & Symbiotic Sciences will be chosen as scholarship recipients and "Notice of Determination for Scholarship Recipient" will be delivered.

(2) Amount of Scholarship

①Entrance Fee ¥414,000 ②Tuition ¥535,800 ③Living Expenses ¥150,000/month ④Travel Expenses up to ¥362,000 ⑤Transportation to/from Japan up to ¥300,000 (actual expenses)

Total: ¥3,411,800(maximum)

In consideration of a second half of academic year 2021, the amount will be ¥2,063,000(maximum).

(3) Payment of Scholarship

For the academic year 2021, the expense for transportation to Japan (actual expenses), Entrance Fee, Tuition (for fall semester), and living expenses (for 6 months) will be paid in October (\*The payment will be by installments in April and October in and after 2022). As for the travel expenses, the cost calculated by Prefectural University of Kumamoto's travel expenses rule will be paid monthly.

(4) Payment of Tuition

The Scholarship recipients should pay the tuition for the academic year 2021 by the prescribed way of the Office of Prefectural University of Kumamoto, by the prescribed date. In and after 2022, the payment dates of the tuition for fall enrollment students are 2 times, at the end of April and the end of October.

## **Outline of Graduate School of Environmental & Symbiotic Sciences (PhD Program)**

### **1 Curriculum Configuration**

Our Graduate School's curriculum is designed with three Special Seminars and one Special Research to achieve our philosophy and Human Resources Development.

Special Seminar	Special Seminar on Ecology-Related Environmental Symbiosis	Students should take one course chosen from eight themes. They should learn research methods related to material moving states and interrelated influence in the ecosystem including water, geosphere, and atmosphere. They also should aim to understand the methods to maintain and manage sustainable and high biological productivity, biological diversity, and ecosystems. Also, students can choose research on mercury at the Collaborative Graduate School with National Institute for Minamata Disease.
	Special Seminar on Residence-Related Environmental Symbiosis	Students should take one course chosen from six themes. Thinking extensively about the people's act of living on the earth as "Residence", they should consider the meaning of the symbiotic residential environment with nature and society. They also should aim for acquiring specific methods to realize an environmental and symbiotic society.
	Special Seminar on Food and Health-Related Environmental Symbiosis	Students should take one course chosen from nine themes to acquire the specific methods. From an environmental and symbiotic viewpoint, students should understand the importance of food resources and various food and health

		environmental factors comprehensively, and aim to create a recycling society, working for people’s health maintenance and disease prevention. Also, students can choose research on mercury at the Collaborative Graduate School with the National Institute for Minamata Disease.
Special Research	Students should choose a highly-specialized specific research project from the point of view of environmental & symbiotic science and complete a doctoral thesis through experimentations, surveys, analysis, and the like.	

**2 Regular course term**

3 years

**3 Day/Evening Course System**

With an increased need for new specialized knowledge and the increased expectation for high Recurrent Education among adults, we provide a day/evening course to accept adults. In particular, for the PhD program, Special Research (for adults, including Special Seminar) is conducted basically at night (18:00-21:10).

**List of Instructors for Special Seminar** Scheduled for fiscal 2021

	Position	Name	Theme in Special Seminar※1
Special Seminar on Ecology-Related Environmental Symbiosis	Professor	ISHIBASHI, Yasuhiro	Environmental Resource Circulation
	Professor	ICHINOMIYA, Mutsuo	Marine Life Production
	Professor	KOBAYASHI, Jun	Management and Circulation of Environmental Substances
	Professor	ZHANG, Daizhou	Atmospheric Aerosols
	Professor	TSUTSUMI, Hiroaki※2	Coastal Ecosystem
	Professor	MATSUZOE, Naotaka	Botanical Resources Production and Use
	Associate Professor	AGUSA, Tetsuro	Precise Measurement for Trace Chemicals
	Collaborative Professor	YAMAMOTO, Megumi	Research on Mercury at the Collaborative Graduate School with the National Institute for Minamata Disease.
Special Seminar on Residence-Related Environmental Symbiosis	Professor	KITAHARA, Akio	Timber Construction & Structures
	Professor	SHIBATA, Yu	Rural Planning
	Professor	TAKAHASHI, Hironobu	Spatial Design
	Professor	TANAKA, Akio	Architecture and Environmental Management
	Professor	TSUJIHARA, Makihiko	Passive Environmental Conditioning
	Professor	LI, Li	Spatial Structure
Special Seminar on Food and Health-Related Environmental Symbiosis	Professor	SHIMODA, Seiya	Clinical Manifestation Management
	Professor	SHIRATSUCHI, Hideki	Functional Food Analysis
	Professor	MATSUSAKI, Hiromi	Applied Microbiology
	Professor	MATSUMOTO, Naoyuki	Physiology of Human Adaptation
	Associate Professor	AOKI, Tomoko	Motor Control
	Associate Professor	ANAN, Yasumi	Food Resources Safety
	Associate Professor	TOMOYORI, Hiroko	Nutrition Functions of Food

※1 Please refer to page 22-29 for the themes in Special Seminar.

※2 Scheduled to retire in March, 2022

### Lecture Contents of Courses

Course Title	Contents
Special Seminar on Ecology-Related Environmental Symbiosis	<p>Students should take one course chosen from eight themes. They should learn research methods related to material moving states and interrelated influence in the ecosystem including water, geosphere, and atmosphere. They also should aim for understanding the methods to maintain and manage sustainable and high biological productivity, biological diversity, and ecosystems.</p> <p><b>Theme 1: Environmental Resource Circulation</b>  <b>【Content】</b>            As a point of low carbon and resource circulation, students should understand the recycling process of waste products and new energy manufacturing processes using biomass.  <b>【Instructor】</b>            ISHIBASHI, Yasuhiro, Professor</p> <p><b>Theme 2: Marine Life Production</b>  <b>【Content】</b>            While understanding the structure and function of the lower trophic level ecosystem that supports the high fishery production in the ocean area around Japan, this course discusses how marine life resources should be used sustainably.  <b>【Instructor】</b>            ICHINOMIYA, Mutsuo, Professor</p> <p><b>Theme 3: Management and Circulation of Environmental Substances</b>  <b>【Content】</b>            This course offers explanations for trace environmental pollutants—their existence, behaviors and toxicity impact assessment methods—in order to make students understand the health impact assessment for ecosystem and human beings as well as disposal methods and appropriate management/operation procedures of chemical substances.  <b>【Instructor】</b>            KOBAYASHI, Jun, Professor</p>



Course Title	Contents
Special Seminar on Ecology-Related Environmental Symbiosis	<p>Theme 4: Atmospheric Aerosols  <b>【Content】</b>            The instructor gives an outline of the latest survey data and methods of analysis on atmospheric pollutants. Students should understand the current situation of survey research on air quality problems based on observation examples.  <b>【Instructor】</b>            ZHANG, Daizhou, Professor</p> <p>Theme 5: Coastal Ecosystem  <b>【Content】</b>            The instructor gives an outline of the marine environment &amp; the ecological construction and function of coastal shallow sea areas including tidal flats, along with the concrete examples of Ariake Bay, Yatsushiro Bay, etc. Students should understand the theory and method of coastal environment assessment.  <b>【Instructor】</b>            TSUTSUMI, Hiroaki, Professor</p> <p>Theme 6: Botanical Resources Production and Use  <b>【Content】</b>            The instructor gives the concept and the technique of the latest approach on food production. Students should understand the agricultural production methods in global and regional environment.  <b>【Instructor】</b>            MATSUZOE, Naotaka, Professor</p> <p>Theme 7: Precise Measurement for Trace Chemicals  <b>【Content】</b>            The instructor lectures analytical technique of trace chemicals that are physicochemically and biologically changed in the environment and evaluation of effects on ecosystem by those chemicals.  <b>【Instructor】</b>            AGUSA, Tetsuro, Associate Professor</p> <p>Theme 8: Mercury  <b>【Content】</b>            Students conduct research on mercury at Collaborative Graduate School with National Institute for Minamata Disease.  <b>【Instructor】</b>            YAMAMOTO, Megumi, Collaborative Professor</p>

Course Title	Contents
<p>Special Seminar on Residence-Related Environmental Symbiosis</p>	<p>Students should take one course chosen from five themes. Thinking extensively about the people's act of living on the earth as "Residence", they should consider the meaning of the symbiotic residential environment with nature and society. They also should aim for requiring specific methods to realize an environmental and symbiotic society.</p> <p>Theme 1: Timber Construction &amp; Structures  <b>【Content】</b>            Students consider the possibility of timber, which is a renewable structural material, and the usages for residential environmental from the aspect of constructions.  <b>【Instructor】</b>            KITAHARA, Akio, Professor</p> <p>Theme 2: Rural Planning  <b>【Content】</b>            This course explores future directions of Japanese farming and fishing villages in the new era through understanding multifaceted functions and sustainable mechanism of farming/fishing/mountain village areas, learning from examples of Japan and abroad.  <b>【Instructor】</b>            SHIBATA, Yu, Professor</p> <p>Theme 3: Spatial design  <b>【Content】</b>            Students should focus on sensuousness in spatial design, and learn knowledge on Japanese art which differ from western art from thought, culture, history and regionality, and consider future Japanese spatial design.  <b>【Instructor】</b>            TAKAHASHI, Hironobu, Professor</p> <p>Theme 4: Architecture and Environmental Management  <b>【Content】</b>            By quantifying the point of view of the various influences of actions to maintain the internal environment which affects the external environment, we will examine the ways of architecture and environmental management in terms of the symbiosis of architecture and the environment.  <b>【Instructor】</b>            TANAKA, Akio, Professor</p>

Course Title	Contents
Special Seminar on Residence-Related Environmental Symbiosis	<p>Theme 5: Passive Environmental Conditioning 【Content】 Students consider the sustainable development &amp; energy consumption and the relationships between human health &amp; comfort from the perspective of residential environmental conditioning. 【Instructor】 TSUJIHARA, Makihiko, Professor</p> <p>Theme 6: Spatial Structure 【Content】 Students learn knowledge of spatial structure system, construction design, and evaluation of structural safety which is subject to external impact by natural disasters such as earthquakes and typhoons. 【Instructor】 LI, Li, Professor</p>

Course Title	Contents
<p>Special Seminar on Food and Health-Related Environmental Symbiosis</p>	<p>Students should take one course chosen from eight themes to acquire the specific methods. From a point of environmental and symbiotic view, students should understand the importance of food resources and various food and health environmental factors comprehensively, and strive to create a recycling society, working for people's health maintenance and disease prevention.</p> <p>Theme 1: Clinical manifestation management  <b>【Content】</b>            From the point of view of medicine, nutrition and pharmacy, students should understand origin and disease state of each disease such as diabetes, obesity, metabolic syndrome and endocrine disease. And student should examine and consider new prophylaxis, diagnosis and cure based on the newest knowledge on the disease state control.  <b>【Instructor】</b>            SHIMODA, Seiya, Professor</p> <p>Theme 2: Functional Food Analysis  <b>【Content】</b>            Students should understand the analysis and evaluation method of various food components on food function and consider the construction of a recycling society through the functional foods, the functional material, functional material, and high-quality food material invention which maintain and raise health.  <b>【Instructor】</b>            SHIRATSUCHI, Hideki, Professor</p> <p>Theme 3: Applied Microbiology  <b>【Content】</b>            From the point of view of applied microbiology, students should consider the establishment of a Sound Material-Cycle Society such as through the foods using microorganisms and the control of microorganisms involved in foods to maintain and improve the health, and the application of biomass resources and the synthesis of environmentally-friendly materials by biotechnology.  <b>【Instructor】</b>            MATSUSAKI, Hiromi, Professor</p>

Course Title	Contents
Special Seminar on Food and Health-Related Environmental Symbiosis	<p>Theme 4: Physiology of Human Adaptation  <b>【Content】</b>            Students should understand the mechanism of structural and functional alteration of body including the brain by not only physical activity but also physical inactivity. We will discuss about the exercise prescription and eating habits which promote the neurogenesis effective in maintenance and improvement of cognitive functions.  <b>【Instructor】</b>            MATSUMOTO, Naoyuki, Professor</p> <p>Theme 5: Nutritional Control Function  <b>【Content】</b>            Students should understand the body's homeostatic mechanism against the change of an environment factor, and conduct exercise on food and environment, focusing on eating habit &amp; gut immunity, and stress &amp; gut function.  <b>【Instructor】</b></p> <p>Theme 6: Motor Control  <b>【Content】</b>            Students should understand the mechanism of the nervous system and skeletal muscles which enable skillful and appropriate movements in human.  <b>【Instructor】</b>            AOKI, Tomoko, Associate Professor</p> <p>Theme 7: Food Resources Safety  <b>【Content】</b>            Students should understand the food contamination and biological effects of chemicals derived from human activities or the natural environment, and consider the food safety and risk control methods based on scientific evidence.  <b>【Instructor】</b>            ANAN, Yasumi, Associate Professor</p> <p>Theme 8: Nutrition Functions of Food  <b>【Content】</b>            Explores and evaluates how food originated nutrients and functional ingredients have influence on the body, also examines the prevention and improvement of lifestyle-related disease. We will also study on the practical use of the system on "Function Claims" of food.  <b>【Instructor】</b>            TOMOYORI, Hiroko, Associate Professor</p>

Course Title	Contents
Special Seminar on	<p>Students should choose the specific research task specialized highly from the viewpoint of environmental symbiosis study, and write PhD thesis through experiments, investigations, and analysis.</p> <p>Research 1: Research on Marine Ecology and Environmental Conservation</p> <p>Research 2: Research on Resource Circulation Using Unused Resources and Energy Generation</p> <p>Research 3: Research on Behavior of Particles and Chemicals in Atmosphere and Water</p> <p>Research 4: Research on Food, Plant Production, and Environment</p> <p>Research 5: Research on Environment-Conscious Structure</p> <p>Research 6: Research on Safety of Architectural Construction</p> <p>Research 7: Research on Continuation of Rural Area</p> <p>Research 8: Research on Environment-Conscious Residential Environment</p> <p>Research 9: Research on Analysis and Evaluation of Food Safety</p> <p>Research 10: Research on Analysis and Evaluation of Food Preference and Functionality</p> <p>Research 11: Research on physiology, Biochemistry, and Management of Food and Health</p> <p>Research 12: Applied Microbiology Research on Food, Health, and Environment</p>

Fall 2021 Enrollment  
Special Admission Quota for International Postgraduate Scholarship  
for Research on Mercury

Course Title	Contents
Special Research	<p>Research 13: Research on Clinical Medicine of Food and Health</p> <p>As for the Special Research, students can conduct research on mercury at Collaborative Graduate School with National Institute for Minamata Disease under the above research projects.</p>









Do not cut

<b>Photo Sheet</b>  <b>Graduate School of Environmental &amp; Symbiotic Sciences (PhD Program) 2021 Fall Enrollment</b>	Selection Method	Selection Method for Non-Japanese (Special Admission Quota for International Postgraduate Scholarship for Research on Mercury)		
	Applicant's No.	※		
	In Roman letter			
	Name			
	Date of Birth	Year    Month    Date	M	F
	Desired Study Field			
				<b>PHOTO</b> 4cm×3cm, within 3 months of applying, with a full-face view directly facing the camera, against a plain background and without a hat. Write full name on the back of a photo.

(Note) Please do not fill in the column ※.

Do not cut

<b>Admission Ticket</b>  <b>Graduate School of Environmental &amp; Symbiotic Sciences (PhD Program) 2021 Fall Enrollment</b>	Selection Method	Selection Method for Non-Japanese (Special Admission Quota for International Postgraduate Scholarship for Research on Mercury)		
	Applicant's No.	※		
	In Roman letter			
	Name			
	Date of Birth	Year    Month    Date	M	F
	Desired Study Field			

(Note) 1 Please bring this ticket to an entrance examination and put it on the desk to show to proctors.  
 2 Please do not fill in the column ※.

Do not cut



Graduate School of Environmental & Symbiotic Sciences  
 (PhD Program) 2021 Fall Enrollment  
 Selection Method for Non-Japanese  
 (Special Admission Quota for International Postgraduate Scholarship for Research on Mercury)

## Curriculum Vitae

In Roman letter		Applicant's No.	※
Name in full in Native Language			
Registry Records (from elementary school)			
Educational Background	Year    Month		
	Year    Month		
	Year    Month		
	Year    Month		
	Year    Month		
	Year    Month		
	Year    Month		
	Year    Month		
Occupational Experience	From    Year    Month		
	To        Year    Month		
	From    Year    Month		
	To        Year    Month		
	From    Year    Month		
	To        Year    Month		
	From    Year    Month		
	To        Year    Month		
Research Achievement, Qualification, and Reward & Punishment			
Year    Month			
Year    Month			
Year    Month			
Year    Month			

- 【Note】** 1 Please do not fill in the column ※.  
 2 Please write Occupational Experience if you have any.  
 3 Please write on another paper (A4 size) when you need more space.  
 4 This form is available for downloading from the University's website.



Graduate School of Environmental & Symbiotic Sciences  
(PhD Program) 2021 Fall Enrollment  
Selection Method for Non-Japanese  
(Special Admission Quota for International Postgraduate Scholarship for Research on Mercury)

## Research Plan

1. Applicant's Name : \_\_\_\_\_

[Theme]

[Summary]

- ※1 Please write horizontally. You may write on a word processor or by hand.
- ※2 This form is available for downloading from the University's website.
- ※3 Please attach the detailed research plan.





PhD Program  
【Fall Enrollment】

## Application for Qualification Screening for Applicants

Year                      Month                      Day

Dean, Graduate School of Environmental & Symbiotic Sciences

(Applicant)

In Roman letter

**Name**

---

Date of Birth	Year      Month      Day (                      Age)
Contact Address	
PHONE	
CELL PHONE	

I would like to apply for individual Qualification Screening to apply for Graduate School of Environmental & Symbiotic Sciences (PhD Program) 2021 Fall Enrollment.



Name \_\_\_\_\_

## Curriculum Vitae

	Educational Background (from Elementary School)
Year Month	
Year Month	
Year Month	
Year Month	
Year Month	
Year Month	
Year Month	
Year Month	
Year Month	
	Occupational Experience
Year Month	
Year Month	
Year Month	
Year Month	
Year Month	
Year Month	
Year Month	
Year Month	
Year Month	
Year Month	
Year Month	

※ This form is available for downloading from University's website.



Name \_\_\_\_\_

**Achievement List of Research, Education, Duties, and Social Activities**

Year	Month	Research (Presentation on Conference, thesis, etc)
Year	Month	Education

※ This form is available for downloading from University's website.



Name \_\_\_\_\_

**Achievement List of Research, Education, Duties, and Social Activities**

Year	Month	Duties
Year	Month	Social Activities (NPO activities etc)
Year	Month	Others

※ This form is available for downloading from University's website.





Graduate School of Environmental & Symbiotic Sciences  
(PhD Program) 2021 Fall Enrollment  
Selection Method for Non-Japanese  
(Special Admission Quota for International Postgraduate Scholarship for Research on Mercury)

Applicant's Name \_\_\_\_\_

## Confirmation Sheet on Preliminary Consultation

Consultation Date	Year    Month    Date
Summary of Preliminary Consultation	
Desired Supervisor	<p>I have received the preliminary consultation as above.</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Signature <span style="float: right;">Seal</span></p>

※1 Please attach a copy of the supervisor's e-mail or letter to prove that you have discussed your research plan with him or her .

※2 This form is available for downloading from the University's website.

