

<Admission for September 2023 and April 2024>

Graduate School of Environment and Energy Engineering Waseda University

AO Admission Guidelines for the Doctoral Program

Handling of Personal Information

Waseda University will use the personal information (address, name, date of birth, etc.) collected at the time of application to discharge duties relating to entrance examinations, announcement of successful applicants, admission procedures, and other related work. In doing so, the University will take necessary and appropriate measures to prevent the leakage, outflow, or unauthorized use of such personal information. Note that the University may outsource all or part of the above-stated items. In such cases, the University will oblige, by contract or other means, the subcontracted entity or entities to perform necessary and appropriate management of the information. The University may inquire about the authenticity, etc., of documents, materials, theses, and information, etc. submitted to the University (hereinafter, "Submitted Related Documents") by providing said Submitted Related Documents to the issuers, providers, theses review entities, etc. By submitting or providing the Submitted Related Documents to the University, the applicant agrees to the University's right to make such inquiries. In addition to the above, personal information that has been statistically processed, keeping individual identities confidential, will be used as material for surveys and research for the University's admission selection processes. Please understand this in advance.

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Admission Policy (Graduate School of Environment and Energy Engineering)

Under its educational philosophy of Academic Independence, Waseda University welcomes many domestic and international students who have strong basic academic skills, intellectual curiosity, and an Enterprising Spirit, which is one of the University's educational principles, and are highly motivated for learning.

Aiming to promote research and education based on a cross-disciplinary approach and international mindedness, WEEE accepts human resources from a wide variety of backgrounds, such as both arts and sciences, as well as adult and international students.

Master's students are admitted through recommendation from among Waseda University students and via the following examinations: the General Entrance Examination (in which applicants are screened through specialized subject examinations and interviews), the Admission Office Entrance Examination (in which applicants are screened through oral examinations and presentations) and the Special Entrance Examination for International Students, which is held for partner institutions. In the General Entrance Examination, applicants are screened based on their levels of mastery of specialized subject knowledge and research plans. In the Admission Office Entrance Examination, applicants are screened through comprehensive evaluation of their undergraduate study results (irrespective of disciplines), such as their graduation theses, motivation for research in WEEE, research planning skills and other relevant aspects. One requirement for international applicants is that they must be able to communicate smoothly in Japanese. To be admitted to doctoral courses, applicants are required to pass the same types of entrance examinations as for master's courses, to have the abilities required to earn a doctoral degree, and to have a broad spectrum of advanced expertise, experience, theory and motivation in the field of environment and energy. In particular, examiners place special emphasis on their past research results, such as presentations at academic conferences and articles published in academic journals.

Application Process

- Applicants can apply only once per academic year to take the AO admission entrance examination for admission to the Waseda Graduate School of Environment and Energy Engineering (WEEE) doctoral program.
- Applicants are required to choose a professor and contact them through email before sending in the application form.
- Applicants are required to inform the WEEE Admissions Office by email before submitting their application.
- Interested applicants to other selection systems offered by WEEE should contact the WEEE Admissions Office.

WEEE Admissions Office: weee-ent@list.waseda.jp

1. Number of Admission Spaces Available

For admission in September 2023: A few

For admission in April 2024: 7 (maximum)

Areas of Research Guidance and Degrees

Research guidance	Supervisor		Degree
Environment and Power Systems	Professor	Jin Kusaka	Engineering/Ph. D. in Social Sciences
Environmental and Exergy Engineering Research	Professor	Takao Nakagaki	Engineering/Ph. D. in Social Sciences
Assessment of Environmental Systems	Professor	Makoto Nohtomi	Engineering/Ph. D. in Social Sciences
Environment and Electric Energy	Professor	Yushi Kamiya	Engineering/Ph. D. in Social Sciences
Energy and Sustainable System for Environment	Professor	Hiroshi Onoda	Engineering/Ph. D. in Social Sciences
Environmental Symbiosis & Local Society System	Associate Professor	Takashi Nozu	Ph. D. in Social Sciences

2. Application Criteria

Applicants must meet at least one of the following five criteria. Applicants for September 2023 admission must meet the relevant criterion by September 20, 2023, and applicants for April 2024 admission must meet it by March 31, 2024.

- ① Holders of a Master's Degree, a Professional Master's Degree, or a Professional Doctorate Degree in Law or those who are scheduled to receive such degree
- ② Holders of a Master's Degree, a Professional Master's Degree, or equivalent from an institution outside Japan or those who are scheduled to receive such degree
- ③ Those who are designated by the Minister of Education, Culture, Sports, Science, and Technology
- ④ Those who have completed postgraduate programs and received a degree equivalent to a Master's Degree from United Nations University or those who are scheduled to receive such degree
- ⑤ Those who have been recognized by WEEE as possessing academic credentials superior to those of holders of a Master's Degree, Professional Master's Degree, or Doctoral Degree in Law through an individual entrance requirements screening process and are scheduled to reach 24 years of age by the time of admission.

Applicants seeking to qualify under criterion ③ or ⑤ must contact WEEE at least two months prior to the application deadline.

Faculty of Waseda University including Waseda University Junior / Senior High School, Waseda University Honjo Senior High School and Art and Architecture School are not able to become a student of the University, although there are few exceptions according to the university regulations. If you have any question, please ask Waseda University administration offices.

3. Entrance Examination Fee

JPY 35,000

Payment Period of the Entrance Examination Fee

Exam	Payment Period
July exam	May 24 (Wed) – June 6 (Tue), 2023
November exam	September 20 (Wed) – September 29 (Fri), 2023
February exam	December 4 (Mon) – December 15 (Fri), 2023

*Please note that the entrance examination fee payment period varies depending on the examination you apply for (July, November, or February exam).

4. Exemption from Entrance Examination Fee

The applicant is exempt from the entrance examination fee in the following cases:

- ① Application to the WEEE doctoral program coincides with the applicant's completion of a master's program offered by WEEE or one of the following Waseda University graduate schools: Fundamental Science and Engineering; Creative Science and Engineering; Advanced Science and Engineering; or Information, Production, and Systems.
- ② Application to the WEEE doctoral program is submitted after the applicant has completed a master's program offered by WEEE or one of the following Waseda University graduate schools and subsequently become a general research student of one of these graduate schools: Fundamental Science and Engineering; Creative Science and Engineering; Advanced Science and Engineering; or Information, Production, and Systems. However, this exemption is limited to applications made within four years of the applicant's enrollment in the master's program.

- ③ If there is a possibility that you will become a Japanese Government (Monbukagakusho: MEXT) Scholarship student after admission to the graduate school, please consult the graduate school office before applying. You may be eligible for an exemption from the entrance examination fee.

- ④ Screening fee waiver program for applicants from specified countries

The applicant must reside in one of the countries classified as "Least Developed Countries" or "Low Income Countries which are not LDCs" in the list of ODA recipients as published by OECD/DAC AND hold nationality of one of those countries (the applicant's country of residence and nationality do not necessarily have to be identical).

*Applicants residing in Japan are not eligible.

For more information, refer to the descriptions on the following URL.

https://www.waseda.jp/fsci/gweee/assets/uploads/2023/11/2024_Screening_fee-waiver_program_for_applicants_from_specified_countries.pdf

5. How to Pay Entrance Examination Fee

Please pay the entrance examination fee by using one of following methods.

<Payment at a convenience store>

Please pay the entrance examination fee at a convenience store near you.

To make a payment at a convenience store in Japan, you must complete the designated application procedure in advance by accessing the "screening fee convenience store payment site" (<http://e-shiharai.net/>) [Japanese only] on the Internet from a personal computer or a mobile phone and complete the prescribed online procedures. After accessing the website, please make the payment at a convenience store.

Once the payment is complete, take a photo of your "Certificate of Receipt for Examination Fee [収納証明書]" that shows the applicant's name, the date and amount of payment, and upload it where required on the online application system of The Admissions Office "TAO". For more information on the payment, refer to "Convenience Store Easy-Pay Systems for Entrance Exam Fees" on page 4.

The payment can be made 24 hours a day, seven days a week, including Saturdays, Sundays, and holidays. However, please note that application via the website will end at 23:00 on the last day of the payment period. Similarly, you will not be able to make a payment at a convenience store after 23:30 on the last day of the payment period.

- If a family member or acquaintance of an applicant conducts the procedure for the applicant, the family member or acquaintance must enter the applicant's information.
- If you are unable to make the payment at a convenience store for some reasons, please contact the WEEE Admissions Office in advance.

<Payment by credit card, China Union Pay (online payment)>

To make a payment by credit card or online payment system (China Union Pay), please access the online screening fee payment website (<https://e-shiharai.net/ecard/>) and complete the required procedure.

Once the payment is complete, save the "Result [申込内容照会結果]" image data of "Entrance Examination Fee Payment Certificate [入学検定料・選考料取扱明細書]" and upload it where required on TAO. For details, refer to "Examination Fee Payment by Credit Card and Union Pay" on page 5.

- The payment can be made 24 hours a day, seven days a week, including Saturdays, Sundays, holidays.
- The payment can be made with a credit card held in the name of a person other than the applicant. However, the applicant's information must be entered in the "Basic Information" page of the entrance examination fee payment website.

Waseda University

Convenience Store Easy-Pay Systems for Entrance Exam Fees

Now you can transfer funds to pay for your entrance examination - 24 hours a day - from your nearest Lawson, Ministop, FamilyMart, Seven-Eleven.

- 1 Before going to the convenience store, you will need to obtain an application number which you can get from going online on either your cellphone or computer. This number will be required when you make your payment.



<https://e-shiharai.net/>



To obtain your application number, please follow the instructions on the screen and input all necessary information. This number will be required when you make your payment.

If you input the wrong information when trying to obtain your application number, please start again from the beginning and make your payment. If you are not able to make the required payment before the due date you will receive this deadline upon completing the online application, all the information you had input will be canceled automatically.

2 Convenience Store Payment

●The application fee cannot be paid through an ATM. Be sure to make your payment at the cash register.

7
Paying at SEVEN-ELEVEN
[13-digit Payment Slip Number] 払込票番号

Tell the counter staff that you want to make an "Internet shiharai." Then provide your Payment Slip Number 【払込票番号】

※If a payment slip is not printed out, just tell your number to the counter staff.

A multifunction copier can not be used to make payment.

- Make the payment at the register.
- Receive an Application Fee Statement. Detach the Certificate of Payment (receipt) portion.

LAWSON **MINISTOP**
Paying at LAWSON or MINISTOP
[11-digit Customer Number] お客様番号
[4-digit Verification Code] 確認番号

Use the Lawson information terminal **Loppi**

Touch the "各種サービスメニュー" option
Various Service Menus

Select the "各種代金・インターネット受付" button on the touch screen
All Payments

Touch the "各種代金お支払い" option
All Payments

Touch "マルチペイメントサービス"
Multi-Payment Service

Enter your 【お客様番号】 【確認番号】
Customer Number Verification Code

- Information terminal issues a funds transfer receipt. You will need to take this to the cash register within 30 minutes and make the actual payment.
- Receive an Application Fee Statement. Detach the Certificate of Payment (receipt) portion.

* Design and layout of the touch screen buttons is subject to change without notice.

FamilyMart
Paying at FamilyMart
[11-digit Customer Number] お客様番号
[4-digit Verification Code] 確認番号

Use the FamilyMart information terminal or multifunction copier

Select the "代金支払い" button on the touch screen
All Payments

Enter your 【お客様番号】 【確認番号】
Customer Number Verification Code

- Information terminal issues a funds transfer receipt. You will need to take this to the cash register within 30 minutes and make the actual payment.
- Receive an Application Fee Statement. Detach the Certificate of Payment (receipt) portion.

3 Application

Take a photo of your "Certificate of Receipt for Examination Fee [収納証明書]" that shows the applicant's name, the date and amount of payment, and upload it where required on the online application system of The Admissions Office "TAO".

- Be sure to complete your convenience store payment before the time limit expires. All the payment information you entered will be deleted automatically if the payment is not completed before the deadline.
- Please note: After application fee payment has been made at any of the above shops, refund is not possible.
- Please double-check the application deadline in your application guide. Post your payment early enough to be sure it is received in time.

Payment Commission

(transfer fee charged by all participating stores)

There is a fee for this payment transfer service, which applicants must pay in addition to the entrance exam fee. The payment commission is as the same at all participating

convenience stores:

Entrance exam fee ¥49,999 or less	500 yen
Entrance exam fee ¥50,000 or more	720 yen

Questions about paying your entrance exam fees at convenience stores? Please visit:

Note: Convenience store staff cannot answer questions about the service.

<https://e-shiharai.net/>

Waseda University Examination Fee Payment by Credit Card and Union Pay

24 hours a day, 365 days a year, you can pay anytime! Easy, Convenient and Simple!

You can pay the Examination Fee by using
Credit Card and Union Pay.



Access the site below

<https://e-shiharai.net/ecard/>



Web Application - Online Transaction

1. Top Page Click "Examination Fee".
2. Terms of Use and Personal Information Management Please read the Terms of use an Personal Information Management.
Click "Agree" button located in the lower part of this page if you agree with these terms.
Click "Not agree" button located in lower part of this page if you do not agree with these terms.
3. School Selection Click "Waseda University".
4. School Information Read the information carefully and click "Next".
5. Category Selection Choose First to Fourth Selection and click "Add to Basket".
6. Basket Contents Check the contents and if it is OK, click "Next".
7. Basic Information Input the applicant's basic information.
Choose your credit card and click "Next".

Paying with Credit Card

Input Credit Card Number (15 or 16-digits),
expiration date and security code.

All of your application information is displayed.
Click "Confirm" to verify.

Click "Print this page" button and print out
"Result" page.

Paying with Union Pay

Follow the onscreen instructions to complete the card payment.

Please click the "Application Results" button in the upper
part of this site (e-shiharai.net).

Please write down the "Receipt Number" given when you
complete your application, and enter your
"Payment Method", "Receipt Number" and "Birth Date".
Please make sure your printer is ready.

Please print out the "Payment Inquiry - Inquiry result" page.

Application

Once the payment is complete, save the "Result [申込内容照会結果]" image data of
"Entrance Examination Fee Payment Certificate [入学検定料・選考料取扱明細書]"
and upload it where required on TAO.

[NOTICE/FAQ]

- During the payment periods and application periods specified in the application guidelines, you can make payment anytime. Please consult the application guidelines and complete payment in time for the application period.
- On the last date of the payment period, please complete the transaction by 11:00pm Japan time.
- It is possible to use a card which carries a name different from that of the applicant. However, please make sure that the information entered in the Basic Information page is the applicant's information.
- If you did not print out the "Result" page, you can display it later on the Application Result page. Please enter "Receipt Number" and "Birth Date" to redisplay.
- Please contact the credit card company if your card is not accepted.

■Payment Commission

There is a fee for this payment transfer service, which applicants must pay in addition to the entrance exam fee.

Entrance exam fee	Payment Commission
~ 29,999 yen	565 yen
30,000 yen ~ 49,999 yen	1,005 yen
50,000 yen ~ 69,999 yen	1,446 yen
70,000 yen ~ 99,999 yen	1,833 yen
100,000 yen ~ 199,999 yen	2,074 yen
200,000 yen ~ 299,999 yen	2,618 yen
300,000 yen ~	4,400 yen

For questions or problems not mentioned here, please contact :

E-Service Support Center Tel : +81-3-5952-9052 (24 hours everyday)

<Payment by remittance from outside Japan>

Remit the screening fee plus an exchange fee of JPY 2,500 (total value of JPY 37,500) at a financial institute (if the local bank requires any additional handling charge, pay the fee to the bank in addition to the JPY 37,500). –Once the payment is complete, upload your “foreign remittance statement [外国送金依頼書]” (that shows receipt by the financial institution) to TAO.

Type of remittance	Telegraphic Transfer
Payment method	Advise and Pay
Bank Transfer fee	Payer's Responsibility
Lifting charge	Payee's Account
Remittance amount	JPY 37,500 JPY 35,000 for the screening fee, JPY 2,500 for the lifting charge
Purpose of remittance	Screening Fee
Message to payee	Graduate School Code 54 along with Applicant's full name in English
Payee's Account Information	Bank Name: MUFG Bank, Ltd. Branch: Edogawabashi Branch Account No.: 0035967FLK Beneficiary: Waseda University Bank Address: 3-7, Kagurazaka Shinjuku-ku Tokyo, Japan Swift code: BOTKJPJT

6. Refund of Screening Fee

As a general rule, submitted documents will not be returned and the screening fee will not be refunded. However, in the following cases, only the screening fee will be refunded. If any of these are applicable to you, please contact the WEEE Admissions Office.

- 1) You paid the screening fee but did not submit the application documents.
- 2) You paid the screening fee but submitted the application documents after the deadline.
- 3) You paid the screening fee and submitted the application documents, but your application was not accepted because it was incomplete or did not meet the eligibility criteria.

If the screening fee was paid by credit card, or if the refund is to be deposited into a bank account outside of Japan, you will be responsible for any fees incurred in connection with the refund.

7. Application

Your application is complete when you have paid the entrance examination fee within the application period and have registered all required information on the designated online application system of “The Admissions Office (TAO)” and all designated application documents have been submitted and received by following the steps below.

Application Period

Note that all dates and times refer to Japan Standard Time (JST).

All data entries and uploads into TAO need to be completed between 10:00 on the first day and 23:59 on the final day of the application period.

Exam	Application Period
July exam	May 24 (Wed) – June 6 (Tue), 2023
November exam	September 20 (Wed) – September 29 (Fri), 2023
February exam *1	December 4 (Mon) – December 15 (Fri), 2023

* Applicants may take only one of the above examinations.

* Applicants wishing to apply for September 2023 admission should take the July examination.

* Applications submitted from outside Japan must arrive by the last day of application period.

*1 Application is open only for applicants residing in Japan.

8. Complete the Online Application “The Admissions Office”

Submit your application through “The Admissions Office (TAO),” the online application system, during the application periods.

TAO (The Admissions Office) <https://admissions-office.net/en/portal>

- 1) You must first create an account on TAO.
- 2) After creating your TAO account, find “Waseda University, Graduate School of Environment and Energy Engineering” from the “Admission schemes” menu and start your application.
- 3) Follow the detailed instructions shown on the system screen as you fill out and upload the materials.
- 4) Note that Waseda University uses several other application systems for other admissions schemes. To prevent confusion, make sure that you access TAO at the above link.

IMPORTANT:

Be sure to click “Complete my application” button in order to submit your application. Failure to complete your submission will result in your documents not being screened.

Make sure to click “content confirmation” button and check all the sections have been completed. Click “Complete my application” to submit your application.

Make sure to confirm your application status has been changed from “Application in progress” to “Application completed”.

NOTE:

- 1) If you do not select “Complete my application” in the application period, your application will not be accepted under any circumstances.
- 2) You do NOT need to create a “Profile” on TAO in this admission. The School does not use the information provided in this section.
- 3) By creating your account on TAO, you agree to the “Terms of Use” and “Handling of Personal Information” designed by TAO Inc., Ltd., the service provider of TAO.

1) Information to be registered and application documents to be uploaded into TAO

	Category	Form	Notes
a.-1.	Filling in the TAO online application form (All applicants)	-	<p>Enter the required information by following the instructions on the screen.</p> <p>WEEE may contact you at the email address entered in this form, so make sure that you accurately enter an email address that you check regularly.</p> <p>You will be asked to provide information, such as your educational background from high school to present (including the dates of entrance, graduation, and transfer) and employment history (including the dates of employment and separation, if any), in addition to your nationality, sex, contact information, and your top three preferred supervisors (in order of preference). Please check the official names of the schools and accurate dates in advance.</p> <p>For the purpose of administering entrance exams in an efficient manner and carrying out admission procedures, Waseda University collects information regarding your gender on legal documents. The information is collected only when the reason is deemed reasonable, and these cases are limited to a minimum.</p> <p>We would also appreciate your cooperation in answering the questionnaire because we wish to use the responses as reference for public relations related to future admissions, etc. Please note that this questionnaire is not used as a basis for screening applicants.</p>
a.-2.	ID photo (All applicants)	-	<p>Upload a photograph that meets all requirements below.</p> <ol style="list-style-type: none"> Please upload a color photo taken within 3 months of the time of application. The requirements for the photo are as follows: a vertical to horizontal ratio of 4:3; must capture the upper body; must provide a front view; no hats, background, or frame. As will be detailed later, as part of the enrollment procedure, you will be required to upload an electronic version of the photo you submitted with your application. Therefore, please keep the color photo file in a safe place. Photos taken while wearing scarves or sunglasses will not be accepted. However, if you would like to submit a photo of yourself wearing a head piece for medical or religious reasons, please contact us prior to submitting your application. The photo will be used for identity verification on the day of the test. Therefore, we do not accept unclear photos such as snapshots or photos that make it difficult to identify the pictured individual or verify their identity due to differences in hairstyle, etc. Photographs taken and printed by individuals themselves using smartphones, etc., will not be accepted. Be sure to take an ID-quality photo (a speed photo is acceptable).

			e. During the enrollment procedure, you will be required to upload a photo for your student ID card separately. Please use the same photo you submitted with your application. Please note that the photo uploaded during the enrollment procedure will be used as personal information in various on-campus web services, etc., as well as for identity verification in various on-campus procedures.
a.-3.	Statement proving payment of entrance examination fee (All applicants)	-	Upload a statement proving payment of entrance examination fee (in a PDF, image) that clearly shows the applicant's name and the amount of payment. For details, refer to "Entrance Examination Fee" on Page 2.
a.-4.	Statement of Research and Social Activities (All applicants)	Prescribed Form	Summarize the research and social activities you have engaged in within 500 words. Upload the document after converting it into PDF.
a.-5.	Statement of Academic Achievements (All applicants)	Prescribed Form	Describe your achievements you have made in terms of research, etc. Upload the document after converting it into PDF.
a.-6.	Letter of Self-Recommendation (All applicants)	Prescribed Form	Summarize your reason and motivation for pursuing your studies and demonstrate your competence, etc., within 500 words. Upload the document after converting it into PDF.
a.-7.	Research Plan	Prescribed Form	Summarize your intended research project and other activities, etc., within 500 words. Upload the document after converting it into PDF.
a.-8.	Passport (Applicants with non-Japanese nationality only)	-	Submit the image data of the page bearing your photograph.
a.-9.	Original Certificate of Residence or Resident Card (front and back) (Domestic applicants with non-Japanese nationality only)	-	a. To submit your Certificate of Residence, obtain one that shows your nationality, residence status, period of stay, visa expiration date, and resident card number, and upload it. b. To submit your Resident Card, upload both the front and back of your card.

Download the prescribed forms from the WEEE Admissions Guidelines & Application Forms website and convert them to PDF files. : <https://www.waseda.jp/fsci/gweee/applicants/admission/application/>

*When creating these documents in Microsoft Word, do not change the format or add pages. Do not delete items even if there is no corresponding entry.

9. How to Submit Your Application Documents by Postal Mail

- ① Some specified application documents must be sent by postal mail only. We do not accept application documents that are submitted in person at the WEEE Admissions Office. Applications postmarked after the application deadline will not be accepted. Applications submitted from outside Japan must arrive by the deadline.
- ② Send the application by *the Kan'i Kakitome Yubin* [簡易書留] (simplified) **registered mail** in a K2 size envelope (i.e. 240 mm × 332 mm), which can hold A4 documents without folding.
Send by the *Kan'i Kakitome Sokutatsu Yubin* [簡易書留速達] **registered express mail** if the deadline is imminent. For shipping from outside Japan, send the applications by an Express Mail Service (EMS) or other international courier service which enables you to trace the documents.
- ③ On the envelope, write the program name and admission month in red ink.

<Example>

Application for Doctoral Program, AO Admission in July

Application for Doctoral Program, AO Admission in February

- ④ A certificate of receipt for the application documents will not be issued. Track the documents using a mail tracking number issued by the post office in order to check whether the WEEE Admissions Office has received them.

Send to:

Admissions Office
Graduate School of Environment and Energy Engineering
Waseda University
1011 Nishitomida, Honjo, Saitama 367-0035, Japan

1) Application Documents to be Submitted by Postal Mail

Download the prescribed forms from the WEEE Admissions Guidelines & Application Forms website.

<https://www.waseda.jp/fsci/gweee/applicants/admission/application/>

*When creating these documents in Microsoft Word, do not change the format or add pages. Do not delete items even if there is no corresponding entry.

Create the documents in Word format and print them out single-sided in A4 size for submission. If you will be submitting handwritten documents, use a black ink pen or ballpoint pen. Fill in the documents using block capitals and Arabic numerals.

	Document	Form	Notes
b.-1.	Original copies of relevant certificates (All applicants)	Original	<p>Certificate of graduation (completion) <Certificate of expected graduation (completion) for applicants who expect to graduate (complete)>, Degree Certificate (*Applicants who have graduated from universities in China) and Academic Transcript</p> <ul style="list-style-type: none"> • Applicants must submit original certificates (Copies are not acceptable). • Applicants must submit academic transcripts from both undergraduate and master's programs. • Applicants who have transferred must also submit the academic transcripts for their studies prior to the transfer. • Certificates must be written in Japanese or English. If the certificate is in a language other than Japanese or English, a Japanese or English translation that has been certified by an official organization (e.g., the relevant embassy, consulate, or notary office) must be provided. • If a certificate of expected graduation is not issued, submit a certificate of enrollment. <p>◆Applicants who have graduated from universities in China</p> <p>Certificate of graduation (completion) with 证书编号 (original) and Degree certificate with 证书编号 (original) must be submitted by mail.</p> <p>◆Applicants who have graduated from educational institutions in China</p> <p>In addition to certificates(original), arrange the following two verification reports issued by CHSI (中国高等教育学生信息网) to be emailed directly from CSSD(CHESSIC) to the WEEE Admissions Office (weee-nyusi@list.waseda.jp).</p> <p>1) "Online Verification Report of Higher Education Qualification Certificate" (English) ("Online Verification Report of Student Record" (English) for those who expect to graduate)</p>

			<p>2) "Online Verification Report of China Higher Education Degree Certificate" (English)</p> <p>For more information, visit CSSD (CHESICC) website. (https://www.chsi.com.cn/en/pvr/)</p> <p>Prepare your application well in advance so that the two verification reports reach the WEEE Admissions Office by the application deadline.</p> <p>Only the two verification reports emailed directly from CSSD (CHESICC) to the WEEE Admissions Office are valid.</p> <ul style="list-style-type: none"> • If the applicant took a leave of absence or leave for military service from his/her university, he or she must have the home university or another public institution issue a certificate that shows that the school granted the leave.
b.-2.	Approval of Application (If applicable)	Prescribed Form Original	This document must be submitted by an applicant who is enrolled as a regular student in a doctoral program at another university or another graduate school of Waseda University at the time of application.
b.-3.	Original English Test Score Report (TOEIC L&R, TOEFL-iBT or IELTS Academic are acceptable) (All applicants)	Original	<p>Only reports taken within two years from the submission period for application documents are acceptable. Submit one of the following original certified score reports. Note that you cannot submit score reports of examinations that can be attended from home (such as TOEFL iBT Home Edition, TOEFL iBT Paper Edition, and IELTS Online).</p> <p>a. TOEIC L&R (Official Score Certificate)</p> <p>b. TOEFL-iBT (Official Score Report)</p> <ul style="list-style-type: none"> • Request a test center to send the Official Score Report directly to the WEEE Admissions Office by using DI code (Designated Institution Code): C324 ETS website http://www.ets.org/ • This must arrive by the submission deadline. <p>c. IELTS Academic</p> <p>*Photocopies, online screenshots, etc., will not be accepted.</p>
b.-4.	Letter of Recommendation and other documents (Optional)	Prescribed Form	<p>a. Letter of Recommendation (Original)</p> <p>The letter of recommendation should be preferably in the prescribed form while other formats can be accepted. The letter must be issued within two years of the last day of the application period and submitted in a sealed envelope with the referee's signature over the seal. The letter must be written in English or Japanese.</p> <p>b. Offprints of academic papers, presentations at academic conferences, etc., as well as a list and photographs of the materials created (Copy)</p> <p>c. Qualification certificates, a photocopy of a summary of acquired patents, etc. (Copy)</p> <p>d. "Japanese Language Proficiency Test Certificate of Result and Scores [日本語能力試験認定結果及び成績に関する証明書]" or "Examination for Japanese University Admission for International Students Certificate of Scores [日本留学試験成績に関する証明書]" (Original)</p>
b.-5.	Request Form for Return of Submitted Materials (If applicable)	Prescribed Form	We will only return submitted documents that cannot be reissued. We do not return submitted documents that can be reissued, such as certificates of graduation (completion), transcripts, certificates of language proficiency, and

			notarized documents; we will return documents only when we regard them as not re-issuable after checking them ourselves. The return of submitted materials will take about one to two months.
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2) Notes on Forgery of Application Documents

You may be deemed to have committed a dishonest act if you falsified, fabricated, or plagiarized a document, material, or information submitted in your application. In such a case, any decision taken regarding your application may later be invalidated, without the application documents and screening fee being returned.

10. Special Care during the Entrance Examination or after Entering the University

If you expect to require special care during the entrance examination or after entering the university due to a disability or serious medical condition, etc., please contact the WEEE Admissions Office at Waseda University immediately. In addition, contact us if a serious injury or illness is expected to affect your ability to take the entrance examination. Please contact us immediately even if you find yourself in such situation after submitting your application.

11. Issuance of an Examinee's Number and Examination Admission Card

Once your application is accepted, your examinee's number will be issued through TAO no later than about a week prior to the announcement of successful applicants from the first screening. Note that you cannot have your examinee's number when there are any errors in the documents or other information you have submitted until they are resolved. If your examinee's number is not issued at least one week prior to the second screening, please contact the WEEE Admissions Office.

If you find any errors in the information provided on the examination admission card, contact the WEEE Admissions Office immediately.

Print out your examination admission card from TAO and bring it to the venue on the day of examination. Be sure to keep it until university starts, when the examination admission card will be collected in exchange for your student ID card.

12. Screening Process

1) Screening Dates

Exam	First Screening (Document Review)	Second Screening (Interview)
July exam	June 23 (Fri), 2023	July 23 (Sun), 2023
November exam	October 20 (Fri), 2023	November 12 (Sun), 2023
February exam	January 19 (Fri), 2024	February 11 (Sun), 2024

2) Screening Methods

Screening comprises the first screening (document review) and the second screening (interview).

- ① The WEEE Admissions Office screens applicants based on an examination of the application documents (first screening).
- ② Those who pass the first screening are able to take the second screening.
- ③ Successful applicants are selected after a comprehensive evaluation of the application documents and the results of the interview has been conducted.

3) Screening Venue

The second screening (Interview) is scheduled to be held at Building No. 22 on Waseda Campus (see the map on page 22).

4) Notes on Examination

① The venue, date and time of the examination, how to submit your presentation materials (PowerPoint file), devices and media for presentations, etc., will be specified separately in a notice when the *Announcement of First Screening Results* is sent.

② During the presentation, applicants are required to make a PowerPoint presentation based on the following application documents that they submitted: Statement of Research and Social Activities, Statement of Academic Achievements, Letter of Self-Recommendation, and Research Plan. An applicant's presentation should not last more than 20 minutes.

③ Bring your examination admission card, stationery.

④ Please be aware that applicants who are late will not be allowed to take the second screening.

⑤ If you wish to distribute handouts to the faculty members at your presentation other than the documents submitted with your application, send them as a PDF file (maximum size: 2 MB) to the e-mail address below by the date specified by WEEE. The title of the e-mail should be "Presentation handouts: -Your name-".

weee-ent-presen@list.waseda.jp

13. Dishonest Acts

Waseda University has established the following precautions to ensure that the entrance examination is conducted in a strict manner, and that all applicants may take the examination fairly and impartially. Please read these precautions carefully before taking the entrance examination, and approach the examination with the appropriate attitude of seriousness.

1. Any falsification, misrepresentation, plagiarism, etc., of documents, materials, or information submitted to the University at the time of application may be considered as misconduct.

2. Doing any of the following may constitute misconduct.

(1) Cheating (e.g., concealing or using cheat sheets, reference books, etc. during the examination, looking at other examinees' answer sheets, etc., seeking answers from other examinees, referring to notes on one's body, objects, desk, etc.).

(2) Use of any item that is not permitted to be used during the written examination. (This includes placing said item or items on the desk or wearing them on one's person.)

(3) In the written test, touching the question booklet/answer sheet (e.g., opening the booklet, starting to answer the questions, writing on the reverse (back) side or in the margin, etc.) before the instruction "Start the test" is announced.

(4) In the written test, holding any writing instrument or continuing to answer in disobedience to the instruction stating, "Please put down your writing instrument and turn your answer sheet upside down."

(5) Any action that benefits another examinee or other examinees, such as communicating the answers to a question, etc., during the examination.

(6) Holding or using mobile phones, etc., during the examination.

(7) Enabling any sounds (incoming calls, alarms, vibrating sounds, etc.) on cell phones, watches, etc., during the examination.

(8) Behavior that disturbs other examinees in the examination room.

3. In case misconduct is suspected, the University may respond as follows. Failure to comply with these actions may be regarded as an admission of wrongdoing.

- A supervisor (proctor), etc. may give examinees a warning or inquire about the circumstances.

- The applicant may be requested to take the examination in a different seat or room.

- The University may inquire about the authenticity, etc., of documents, materials, theses, and information, etc. submitted to the University (hereinunder, "Submitted Related Documents") by providing said Submitted Related Documents to the issuers, providers, theses review entities, etc. By submitting or providing the Submitted Related Documents to the University, the applicant agrees to the University's right to make such inquiries.

4. The following actions may be taken in the case of confirmed misconduct.

- The applicant will not be permitted to take any entrance examination of the University in the relevant year (screening fees will not be refunded).

- The results of all entrance examinations of the University for the relevant academic year shall be null and void.

If, after enrollment, a student is found to have committed misconduct, he/she may be subject to a range of disciplinary action up to and including expulsion from the University, in accordance with the University's rules and regulations.

In this Application Guidelines, phrase "mobile phones etc." indicates all mobile communication devices, such as mobile phone, smart phone, tablet, PHS and smart watch etc.

14. Disclaimer

Unforeseen problems that are beyond human control.

In cases of unforeseen circumstances that are beyond human control, such as a natural disaster (e.g., typhoons, earthquakes, flooding, tsunamis) and/or accident, such as fire, power failure, and so on, measures including delaying the start of the exam or postponing the exam, etc. may be taken. However, in such an event, we will bear no responsibility for any resulting inconvenience, expense, or other personal loss that the examinee may incur.

15. Announcement of Results

1) Dates

Exam	First Screening Results	Final Results
July exam	June 27 (Tue), 2023	July 26 (Wed), 2023
November exam	October 27 (Fri), 2023	November 14 (Tue), 2023
February exam	January 23 (Tue), 2024	February 13 (Tue), 2024

2) Methods

A list of the examinee's numbers for successful applicants from the first screening will be sent by postal mail to each applicant at the address that they have entered on TAO.

*We will not answer any inquiries made by telephone, email, or other means about this matter.

* If the *Announcement of Screening Results* has not reached you one week after the scheduled date, contact the WEEE Admissions Office.

16. Admission Procedure

Your entrance procedure will be completed by following the three processes of 1) entering the entrance procedure information <UCARO>, 2) paying the entrance procedure fees (admissions fee, school expenses, and other fees) <bank transfer>, and 3) submitting the admission documents <postal mail>. In case the applicants failed to complete the enrollment procedures within the designated period, the admission will be canceled regardless of any reason. Details will be provided when the admission documents are sent to you. Note that the time of admission cannot be delayed or changed. Contact the WEEE Admissions office if there is a change in your address after application.

Admission in September 2023

[Entrance exam in July]

Admission procedure documents sent out to applicants:	July 27 (Thu), 2023
Deadline for the payment of the entrance procedure fees:	August 22 (Tue), 2023
Admission procedure period:	In the beginning of August – August 22 (Tue), 2023*

Admission in April 2024

[Entrance exam in July]

Deadline for the payment of the entrance procedure fees:	August 22 (Tue), 2023
Admission procedure period	In the beginning of February – February 20(Tue), 2024*

[Entrance exam in November]

Admission procedure documents sent out to applicants:	Around mid-November 2023
Deadline for the payment of the entrance procedure fees:	November 29 (Wed), 2023
Admission procedure period	In the beginning of February – February 20(Tue), 2024*

[Entrance exam in February]

Admission procedure documents sent out to applicants:	February 14 (Wed), 2024
Deadline for the payment of the entrance procedure fees:	February 20 (Tue), 2024
Admission procedure period	February 14 (Wed) – February 20 (Tue), 2024*

* Postmark deadline

17. Exemption from the Entrance Fee

If you are currently enrolled in, graduated from, completed, or withdrew from an undergraduate, graduate, or specialized program of Waseda University, you are not required to pay the entrance fee (registration fee). For more information, please refer to the handbook on enrollment procedures sent to successful applicants.

18. Refund of School Expenses and Fees

As a rule, we do not return submitted documents or refund school expenses and fees (the entrance fee and school expenses for the first semester). However, if you do not enter Waseda University due to unavoidable circumstances or fail to meet the entrance qualifications prior to enrollment, we may refund only the school expenses for the first semester (but not the entrance fee). For more information about the procedure for receiving such refund, refer to the handbook on enrollment procedures mailed to successful applicants.

19. Acquisition of Status of Residence “Student”

International students who are admitted to Waseda University are able to apply for a status of residence “Student”. Those with the status of residence “Student” are eligible to apply for tuition reduction/exemptions and scholarships for international students. Those with a status of residence other than “Student” are eligible to enter Waseda University but please be aware that you cannot use various services and systems intended for international students as stated above.

Please take note that students are not eligible to enroll in the university with a “Temporary Visitor” visa status. Carefully read (1)-(6) below and take the necessary measures to extend your period of stay, change your status of residence, request for application for COE by proxy, etc. In order to go through procedures concerning status of residence, you will need a “certificate of admission” issued by Waseda University. The WEEE Admissions office will issue the “certificate of admission” after you have completed payment of the admission, tuition, and other fees.

(1) If you do not have a status of residence in Japan

In order to apply for a status of residence, you will first need to obtain a certificate of eligibility (COE) from the Immigration Bureau of the Ministry of Justice of Japan, located in Japan. **Limited to students with foreign citizenship and living outside of Japan who have completed enrollment procedures**, Waseda University will apply for a COE to the Immigration Bureau on the student’s behalf. After the COE is issued, Waseda University will send it to the student by mail along with the certificate of admission (COA). Upon receiving the COE, you will need to take the COE, COA, and your passport to the Japanese embassy or consulate in your country of citizenship/residence to apply for a “Student” visa. The COE expires in 3 months of issuance, so be sure to acquire your visa within 3 months and enter Japan. Since it takes two to three months for the whole process of receiving documents for proxy application, application by proxy to the Immigration Bureau, assessment, and issuance of COE, please be careful not to start late with little time before enrollment.

[note] Waseda University will only carry out the application by proxy after you have completed payment of the admission, tuition, and other fees. If you wish to have Waseda University

apply for COE for you, please complete your payment as soon as possible, and start your procedures of requesting an application by proxy.

(2) If you have a status of residence “Student”

If you currently have a status of residence “Student”, please process the “application for extension of period of stay” as necessary. You are able to apply for an extension of period of stay up to three months before your status of residence expires. For details on procedures of applying for extension of period of stay, please refer to the following website.

<http://www.cie-waseda.jp/visastatus/en/prospective/studentstatus.html>

(3) If you have a status of residence “Temporary Visitor”

If you currently have a status of residence “Temporary Visitor,” as a general rule, you will need to temporarily leave Japan and apply for status of residence “Student.” For details on how to apply for a status of resident “Student,” please refer to “(4) If you do not have a status of residence.”

(4) If your status of residence is other than “Student” or “Temporary Visitor”

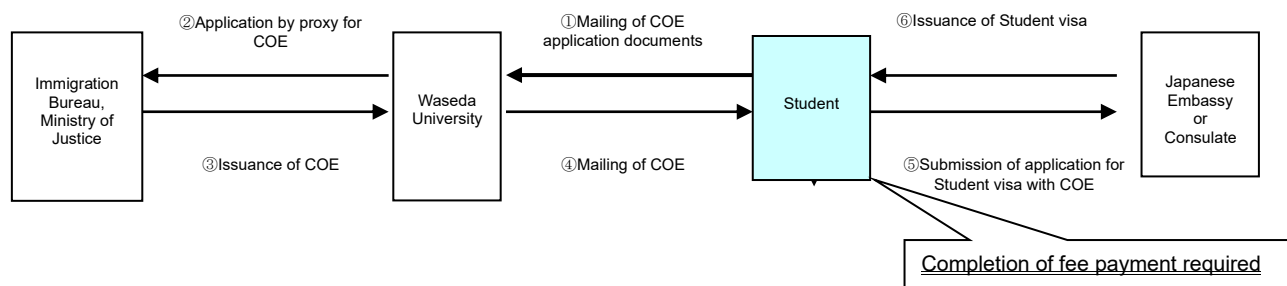
If you currently have a status of residence such as “Long Term Resident,” “Dependent,” etc., there is no need for you to undertake any procedures. However, if you wish to change your status of residence to “Student,” you will need to apply for a change of status of residence. For details on procedures of applying for a change of status of residence, please refer to the following website.

<http://www.cie-waseda.jp/visastatus/en/prospective/currentresidence.html>

[note] In order to apply for an extension or change of your status of residence, you need a completed application form with an official stamp of Waseda University. Prior to making the application to the Immigration Bureau, please contact the WEEE office through email ([weee-ent@list.waseda.jp](mailto:wееe-ent@list.waseda.jp)) and visit the WEEE office (located on the 1st floor, building No.29-7, Waseda Campus) with the application form and a certificate of admission, and other necessary documents.

[Sequence of Steps (①→⑥) Involved in Obtaining a “Student” Visa]

*Depending on the embassy/consulate, the duration before a “Student” visa is issued varies, and in some cases it takes about 3 weeks. After submitting your application documents to the WEEE Admissions Office, please contact the Japanese embassy/consulate which you intend to apply to and ask how long it will take for your visa to be issued.



(5) Acquisition/Change (applying on your own) of status of residence [Visa waiver and Temporary Visitor visa holders]

If you enter Japan as a visa waiver or on a Temporary Visitor visa (within 90 days of stay in Japan, and no activities involving the receipt of money such as sightseeing, making business contact, visiting relatives, etc.), in principle, you will not be allowed to change your visa status while in Japan. However, if it is difficult for you to return to your home country before the start of the new semester due to the entrance exam held at the end of the academic year (end of February/March), you can go to the Immigration Bureau yourself, apply for a COE, get authorization, and go through procedures of changing your status of residence upon issuance of COE. However, please take note that this procedure is an exception, and you may not be allowed to acquire a status of residence. In such a case, you will need to temporarily leave Japan, submit your COE to the Japanese embassy/ consulate in your country of citizenship/residence, receive a “Student” visa, and return to Japan. The Immigration Bureau is solely responsible for decisions regarding status of residence. Waseda University cannot be held responsible for the duration of assessment and outcome.

(6) Other important points

- The WEEE Admissions Office acts on your behalf to apply for a “Student” status of residence only. If you wish to apply for other types of status of residence, you need to make an application by yourself at the Immigration Bureau.
- The Immigration Bureau may require you to submit additional documents if needed.
- If you decide not to enter Waseda University, please write a statement that explains your reason (free format) and immediately send it to the WEEE Admissions Office along with your COE. Also, if you are accepted by another university in Japan, please make sure that you do not apply for a COE at more than one university. If there are multiple applications, the COE cannot be issued.
- If you have multiple citizenships that includes a Japanese citizenship, you are not eligible to apply for COE.
- The Immigration Bureau is solely responsible for decisions regarding status of residence. If issuance is delayed or application is not approved, Waseda University cannot be held responsible for the cancellation fee of your air ticket and other inconveniences. Please be careful when you book your flight.
- For application procedures concerning “Student” status of residence, contact Center for International Education, Waseda University (e-mail : cie-zairyu@list.waseda.jp) or the WEEE Admissions Office (e-mail : weee-ent@list.waseda.jp).

<Request for COE Application by Proxy>

◎Please put all following documents in an envelope and send them to the WEEE Admissions Office, Waseda University by registered mail (international courier service, etc.).

【Documents needed to apply for COE】 Put a check mark ☒ in front of the needed documents you have enclosed.

- ☐ ① Application for certificate of eligibility (3 for the applicant to use, 1 photo)
https://www.waseda.jp/fsci/gweee/assets/uploads/2020/11/COE-application-form_202011.pdf
 *Please be sure to check the example for filling out a COE Application Form.
<https://www.waseda.jp/inst/admission/assets/uploads/2019/06/COE-application-form-Sample.pdf>
- ☐ ② Copy of passport (page with your photo)
- ☐ ③ Request for COE Application by Proxy (this form)
- ☐ ④ Documents Concerning Defraying Expenses (original)

1	You are financing yourself	Bank balance certificate*1 (account is in your name)
2	You are going to receive scholarship	Certificate of Scholarship
3	Someone besides yourself is covering your expenses	Bank Balance Certificate *1 (account in the name of the person covering your expenses) and Written Oath for Defraying Expenses

*1 Note concerning bank balance certificates

- It must show the name of the account holder, name of bank, date, and account balance.
- A balance of 960,000 yen or more per year as living expenses.
- If it is written in a language other than Japanese or English, attach a Japanese or English translation. (notarization is not needed)
- If the account balance is in a currency other than Japanese yen, the WEEE Office will convert it by using the exchange rate at the time your documents are being confirmed.

- ☐ ⑤ Written Oath for Defraying Expenses (only when someone besides yourself is covering your expenses)

* Please download the designated form from the following:

https://www.waseda.jp/inst/admission/assets/uploads/2018/08/defrayers_expense.pdf

Deadline for sending documents

The date designated at the time you go through the admission process.【must reach Waseda University by mail by the date】

*Assessment for COE takes two to three months, so regardless of the deadline, we strongly recommend that you remit the entrance fee/tuition swiftly, and make your application early.

Mailing Address

“COE Application by Proxy” Section,
 WEEE Admissions Office, Waseda University
 1011 Nishi-Tomida, Honjo, Saitama 375-0035, Japan

Contact

E-mail: weee-ent@list.waseda.jp

Name in Kanji (If any)	
Name in English	
Current address in English with <u>Zip Code</u>	Zip Code: Phone number:
Mailing Address of the <u>recipient</u> of COE in English (address <u>outside of Japan</u>)	Recipient's name in English Address City State/Province Country Zip Code Phone number
E-mail address	
Undergraduate/Graduate School	Graduate School of Environment and Energy Engineering, Waseda University
Examinee's number	

20. Tuition and Other Fees

The admission fee, tuition, and other fees required for the WEEE doctoral program (April 2023 admission) are as follows. Information about the school expenses, etc., is provided on the website of the Admissions Center.

<http://www.waseda.jp/inst/admission/graduate/fees/>

Breakdown of tuition and other fees for students admitted in April 2023 (reference)

: First academic year

(Japanese yen)

Admission fee	Tuition		Experiment & seminar fee		Student Health Promotion Mutual Aid Association fee (per semester)	Total
	Spring semester	Fall semester	Spring semester	Fall semester		
200,000	353,500 (upon admission)	353,500	47,000 (upon admission)	47,000	1,500	Upon admission: 602,000 Fall semester: 402,000

Breakdown of tuition and other fees for students admitted in April 2023 (reference)

: Second and third academic years

(Japanese yen)

Academic year	Tuition		Experiment & practice fee		Student Health Promotion Mutual Aid Association fee (per semester)	Total	
	Spring semester	Fall semester	Spring semester	Fall semester		Spring semester	Fall semester
Second	453,500	453,500	48,000	48,000	1,500	503,000	503,000
Third	453,500	453,500	48,000	48,000	1,500	503,000	503,000

Note:

*If you are currently enrolled in, graduated from, completed, or withdrew from an undergraduate, graduate, or specialized program of Waseda University, you are not required to pay the entrance fee (registration fee).

*For more information, please refer to the handbook on enrollment procedures sent to successful applicants.

*Fees such as the experiment & practice fee are subject to change.

21. Scholarship Programs

For information on scholarship programs, refer to the Scholarship and Financial Assistance Section website (<https://www.waseda.jp/inst/cie/en/life/aid>)

22. Others

Our courses may be delivered fully or partially online, for example due to COVID-19, next academic year again. The implementation method will be announced on our website and by other means as soon as a decision is made.

From AY2023 on, WEEE will be located on Waseda Campus.

23. Contact

Admissions Office

Graduate School of Environment and Energy Engineering, Waseda University
1011 Nishitomida, Honjo, Saitama 367-0035, JAPAN

<https://www.waseda.jp/fsci/qweee/en/>

E-mail: weee-ent@list.waseda.jp

Areas of Research Guidance and Faculty Members

Research guidance	Faculty member	Degree
Environment and Power Systems	Professor D.Eng., Waseda University Jin Kusaka	Engineering/Ph. D. in Social Sciences
Environmental and Exergy Engineering	Professor D.Eng., Waseda University Takao Nakagaki	Engineering/Ph. D. in Social Sciences
Assessment of Environmental Systems	Professor D.Eng., Waseda University Makoto Nohtomi	Engineering/Ph. D. in Social Sciences
Environment and Electric Energy	Professor D.Eng., Waseda University Yushi Kamiya	Engineering/Ph. D. in Social Sciences
Energy and Sustainable System for Environment	Professor D.Eng., Waseda University Hiroshi Onoda	Engineering/Ph. D. in Social Sciences
Environmental Symbiosis & Local Society System	Associate Professor D.Public Policy, National Graduate Institute For Policy Studies Takashi Nozu	Ph. D. in Social Sciences

Research guidance details for the doctoral program

Environment and Power Systems

Jin Kusaka

Many of today's environmental problems are attributable to combustion. Recently, various chemical substances have been highlighted as causes of environmental pollution. The need to clarify the production and decomposition processes by which these chemical substances cause environmental pollution is expected to grow even greater. In researching the combustion phenomena governed by chemical reactions, our main focus will be on internal combustion engines and engine systems, as well as on the production and decomposition processes of the hazardous substances released. Our research will also explore next generation fuel cells as an energy conversion system and the engine systems that employ such fuel cells.

Environmental and Exergy Engineering Research

Takao Nakagaki

Technological development aimed at reducing greenhouse gas emissions is urgently needed to achieve a sustainable-energy society. It is extremely important to establish energy systems with a low environmental impact considering features of electric, thermal, and chemical energy from the exergetic viewpoint. Our research guidance will focus on the following themes:

- Energy storage technologies for effective utilization of renewable energy
- CO₂ capture and sequestration (CCS) technologies with unused industrial byproducts
- Thermochemical and electrochemical exergy recuperation technologies applied to iron and steel making process / industrial furnaces
- Analysis of transport phenomena / development of fabrication process for fuel cells and Li-ion batteries

The research guidance provided in this area aims to develop individuals who possess a higher perspective view of energy systems and are capable of identifying problems and solutions based on a solid scientific foundation.

Assessment of Environmental Systems

Makoto Nohtomi

For the construction and maintaining a sustainable society, the introduction and propagation of new environmentally friendly technologies and social system are essential and necessary, the reasons of these necessity are derived by the excess consumption of natural resources and burden on ecosystem by human beings.

However it is difficult to foresee the effect and influence of control policies such as new technology introductions and new environmental policies, so the development of assessment (evaluation) methodology from the aspects of environment, economy and society is important for the sustainability of earth system.

The research guidance provided in this area seeks to help students learn analytical methods for the assessment(evaluation) of various environmentally conscious systems through exercises in applying the method in the actual systems they desire, and to lead the students to a level where they can develop the methods further and resolve actual problems. At the same time, OJT research activities are conducted to allow students to try out hands-on (experimental) approaches for resolving environmental and energy-related problems that extend outside the textbook.

Environment and Electric Energy

Yushi Kamiya

In recent years, even in the automotive field, it has been extremely important to overcome environmental and energy problems, and so related companies and researchers have been expected to further improve the performance of internal combustion engines, and at the same time conduct R&D into alternative driving systems. With this background, we conduct research into electric-driven vehicles (electric vehicles, plug-in hybrids, and fuel cell vehicles, etc.) that are friendlier to the environment. Electric-driven vehicles are superior to traditional vehicles in terms of reducing greenhouse gases, energy shift effect, reducing the burden on the environment, and improving the passenger environment. However, there are major technical problems, principally with the battery and charging, and so it has been difficult to carry out extensive spread of them. Here, we design, produce, and evaluate the electric-driven vehicles, as well as to improve the performance of its components (batteries, motors, charging systems etc.), and while solving each individual problem, tackling the common battery and charger problems.

Energy and Sustainable System for Environment

Hiroshi Onoda

Research towards social implementation has been conducted which is focused on technology and system development for Low-carbon and Sustainable society. While the basic stance is the system engineering approach that is based on "Life Cycle Thinking", incorporates a viewpoint of the academic area integrated consideration in terms of social acceptance. It is also characterized by developing project-based research by various industry-academic-government collaboration. The research fields are Smart Community, Next Generation Mobility System, Biomass Utilization Technology /System, Renewable Energy Utilization Technology / System, Energy Management System, Design for Environment, LCA (Life Cycle Assessment), Resource Recycling and Waste Management Technology /System, Business Ecosystem and so on.

Environmental Symbiosis & Local Society System

Takashi Nozu

It has become difficult to treat environmental problems as a single issue in recent years. We need to understand and think about solutions for that from all aspects of the environment, economy, and

society.

Local communities have been attracting attention as a place to practice new circulating and green economy because they have both problems and potential of that.

This research aims to the realization of a sustainable local community system in harmony with the environment through the utilization of local resources. Our research guidance focuses on the interrelationships of various fields, such as the environment, energy, regional, food, and agriculture, from the viewpoint of social science and policy perspectives.

The following are examples of research themes:

Regional Revitalization by Utilizing Unused Resources such as Renewable Energy and Biomass, Environmental Symbiosis Policy, Agricultural Policy, Food Policy, Regional Policy, Construction of Innovation Systems in the Food Industry and Agriculture, Genetic resources.

Examination Venue Map

Waseda Campus

- ◇ JR Yamanote Line (20-minute walk from Takadanobaba station)
- ◇ Seibu Shinjuku Line (20-minute walk from Takadanobaba station)
- ◇ Tokyo Metro (5-minute walk from Waseda station)
- ◇ Toei (Gaku) bus (Takadanobaba station – Soudai Seimon)
- ◇ Bus (West exit of Shinjuku station – Waseda)
(Shibuya station – Soudai Seimon)
(Ueno-hirokoji – Waseda)
- ◇ Tokyo Toden (Minowabashi station – Waseda station, 5-minute walk)

