

Waseda University
Graduate School of Environment and
Energy Engineering

Special Admission Guide for
International Students

for International Applicants Living Overseas to
the Doctoral Program Eligible to Receive
Scholarships

<September 2017 and April 2018 Admission>

Privacy Policy

Waseda University uses personal information (e.g. name, address, and date of birth) collected from applicants applying for admission to the university when it conducts the entrance examination, announces the successful applicants, conducts the admission process, and carries out other related tasks. We have taken appropriate measures to prevent the loss, disclosure, and misuse of personal information. If it is necessary for us to outsource part or all of the above-mentioned process to a third party, we contractually or otherwise require the party to appropriately manage the information. Please note that, once it has been statistically processed to ensure that individual applicants cannot be identified, personal information is used as reference material for the selection of students in the university's admission process.

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Attached Document

- Important Points for Waseda University Entrance Examinations

- Only international students living overseas who are eligible for scholarships may apply for the Graduate School of Environment and Energy Engineering Special Admission for International Students.
- Special entrance examinations for international students will be given twice, once for September 2017 admission and once for April 2018 admission.
- Applicants may take only one of the two examinations.
- The application deadline and examination date differ for each admission. Make sure to take the examination on the correct date.
- Before submitting your application, please contact the WEEE Admissions Office by e-mail at the following address: weee-ent@list.waseda.jp

Application Process

1. Number of Students to be Admitted

A few

2. Areas of Research Guidance and Degrees

Areas of research guidance are as listed below.

Research guidance	Faculty member	Degree
Environmentally-Conscious Systems and Machines	Professor Hiroshi Sekiya	Engineering/ Ph.D. in Social Sciences
Energy and Environmental Policies	Professor Shinichi Tomonari	Ph.D. in Social Sciences
Environment - Energy Network Research	Professor Yosuke Nakanishi	Engineering/Ph.D. in Social Sciences
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

3. Admission Date

September 2017 or April 2018

4. Application Criteria

Applicants must meet both of the following program and academic criteria:

(1) Program criteria

Applicants must have been given official or unofficial notice of the scholarship and said scholarships must apply to the following.

- ① The scholarship must have been documented by a public institution or foundation and acknowledged by the WEEE Admissions Office.
- ② The scholarship must be paid out in the year of the relevant term.

(2) Academic criteria

Applicant must meet one of the following criteria:

- ① Applicant must hold a Master's degree, or expect to receive a Master's degree by September 20, 2017 when applying for September 2017 admission or by March 31, 2018 for April 2018 admission.
- ② Applicant must hold a Master's degree or equivalent from an overseas university.

* Applications for the program will be accepted once in this academic year (April 1, 2017 to March 31, 2018).

5. Application Period

[September 2017 Admission]

(Exam in May)

April 1 (Sat.) – April 30 (Sun.), 2017

(All applications must arrive by deadline)

[April 2018 Admission]

(Exam in May)

April 1 (Sat.) – April 30 (Sun.), 2017

(Exam in November)

October 1 (Sun.) – October 31 (Tue.), 2017

(All applications must arrive by deadline)

6. Application Documents

Create in Word document format and print out. Use a black pen when filling out by hand. Use block characters and Arabic numerals.

- ① Application Form: Prescribed form
- ② Reason for Application/Self-Recommendation: Prescribed form
- ③ Research Plan: Prescribed form
- ④ Statement of Research Achievements: Prescribed form
- ⑤ Summary of Activities: Prescribed form
- ⑥ Certificate of (expected) Graduation from college or higher level of education, Certificate of Degree, (original)
 *submit original certificates.
 *If the certificates of (expected) graduation (completion) or degree are not written in English or Japanese, attach English or Japanese translation, have them notarized to certify that the translation is accurate, and submit the notarized documents with seals.
 *Applicants who have graduated universities in China must submit a photocopy of graduation (completion) certificate (卒業証書) with 18-digit certificate number.
- ⑦ Academic Transcripts (original)
 *submit academic transcripts from both undergraduate and graduate schools.
 *For transfer students, submit academic transcripts from previous school.
 *If the transcripts are not written in English or Japanese, attach English or Japanese translation, have them notarized to certify that the translation is accurate, and submit the notarized documents with seals.
- ⑧ Letter of Recommendation (original): Prescribed form
 *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 from the first date of the submission period for application documents and submitted in a sealed envelope with the referee's signature over the seal.
 *The letter of recommendation must be written in English or Japanese. If the letter is written in other language, you must enclose a translation in English or Japanese with the original copy. Notarization is not required.
- ⑨ English Test Score Report (TOEIC L&R, TOEFL-iBT or IELTS Academic are acceptable)

*only reports taken within two years from the submission period for application documents are acceptable.

*TOEIC IP, TOEIC S&W, TOEIC Bridge, TOEFL ITP, TOEFL PBT, TOEFL CBT, IELTS General Training etc. are NOT acceptable.

- ⑩ Scholarship Award Certificate; Information on scholarships received and proof of your receipt of scholarship from a public institution or foundation including foreign governments.
- ⑪ Statement of Source of Funding: Prescribed form
- ⑫ Applications for Certificate of Eligibility: Prescribed form
- ⑬ Copy of your passport
- ⑭ Optional documents
Attach the following documents if they are available.
 - List and photocopies of the academic papers, presentations to academic congresses or lectures, and other created material
 - A photocopy of Qualification certificates, acquired patents, etc.
 - A photocopy of a Japanese-Language Proficiency Test score or the result of Japanese section of the Examination for Japanese University Admission for International Students
- ⑮ Statement proving payment of entrance examination fee
Copy of foreign remittance statement, or a printed "Result" page if you paid the examination fee by using Credit Card, Union Pay or Alipay.

Download the prescribed forms listed below from the WEEE Application Guide website:

<http://www.waseda.jp/fsci/gweee/en/applicants/admission/>

- ① Application Form
- ② Reason for Application/Self-Recommendation
- ③ Research Plan
- ④ Statement of Research Achievements
- ⑤ Summary of Activities
- ⑥ Letter of Recommendation
- ⑦ Statement of Source of Funding
- ⑧ Application for Certificate of Eligibility

*** When creating these documents with Word software, do not change the format or add pages. Do not delete columns even if there is no entry.**

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 case, any decision taken on your application may later be invalidated, and the application documents submitted and screening fee will not be returned.

7. Application Procedure

- ① Required documents for application must be sent by the international courier service, such as EMS etc., which enables you to trace documents sent to us. All applications must be received by the deadline.
- ② Use the correct size envelope to submit the required documents, which is 33 cm (H) × 24 cm (W).
- ③ Please write the degree and admission month in red ink.
Ex: **Special International Application (September Admission)**
Special International Application (April Admission)
- ④ A certificate of receipt of the application document will not be issued. To check whether or not the WEEE Admissions Office has received your application documents, track your shipment with your tracking number.
- ⑤ We do not accept application documents submitted in person to the Admissions Office.

<<Send to>>

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

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 WEEE Admissions Office immediately.

8. Entrance Examination Fee

5,000 Japanese Yen

The entrance examination fee of 5,000 yen must be paid before the necessary application documents are mailed.

9. Examination Fee Payment

Following is the period of payment
[September 2017 Admission]

(Exam in May) April 1 (Sat.) – April 30 (Sun.), 2017

[April 2018 Admission]

(Exam in May) April 1 (Sat.) – April 30 (Sun.), 2017

(Exam in November) October 1 (Sun.) – October 31 (Tue.), 2017

Please make the payment before submitting the application documents. **Applications with no record of entrance examination fee payment will not be accepted.**

■ Payment by remittance from outside Japan

Remit the entrance examination fee plus an exchange fee of 2,000 yen (total value of 7,000 yen) at a financial institute (if the local bank requires a separate handling charge, pay the fee to the bank in addition to the 7,000 yen). Enclose a copy of the remittance form with other application documents.

- Remittance method: Telegraphic transfer
- Payment method: Advice and pay
- Lifting charge: Payee's account
- Remittance amount: 7,000 yen
- Purpose: Screening fee
- Remit to the following banking accounts

The Bank of Tokyo-Mitsubishi UFJ, Ltd.
Edogawabashi Branch
1-48-13, Sekiguchi, Bunkyo-ku, Tokyo 112-0014, Japan
A/C No. 0035967FLK (savings account)
Swift code: BOTKJPJT
Account Holder: Waseda University

Be sure to enter Graduate School Code **54** along with the applicant's name in the Message to Payee field.

■ Payment by Credit Card, Union Pay, or Alipay.

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

required procedure. Please refer to page 9 “Examination Fee Payment by Credit Card, Union Pay, and Alipay”.

- After completing the transaction, print out the “Result” page and enclose it with other necessary application documents.
- 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 screening fee payment website.

10. Notes on Submitted Application Documents and Screening Fee Refund

As a general rule, application documents and screening fees are not returned or refunded. A full screening fee will be refunded if you fall into one of the categories below.

- 1) You paid a screening fee but failed to submit the required application documents
- 2) You paid a screening fee but submitted the application documents after the deadline.
- 3) You paid a screening fee and submitted the application documents, but your application was rejected before screening due to the following reasons.
 - The submitted application materials are not complete enough to meet the application requirements.
 - You do not meet all the eligibility criteria.

If you fall into one of the categories above, please contact the WEEE Admissions Office.

*If you have made a payment by credit card, handling fees which may be incurred for refund must be paid by the applicant. Also, if you have made a payment by wire transfer from the bank outside of Japan, all handling fees to be charged for refund to that bank must be paid by the applicant.

Screening Process

1. Selection Procedure

The WEEE Admissions Office screens applicants based on a comprehensive evaluation of all the application documents submitted.

Announcement of Results

① The Admissions Office will mail a “Graduate School of Environment and Energy Engineering Successful Applicant Number List” to all applicants’ current address as per the schedule below:

* If the announcement has not reached you **one week after the scheduled date**, contact the Admissions Office.

[September 2017 Admission]

(Exam in May) **May 17 (Wed.), 2017**

[April 2018 Admission]

(Exam in May) **May 17 (Wed.), 2017**
(Exam in November) **November 21 (Tue), 2017**

- ② September admission is permitted for successful applicants to the Graduate School of Environment and Energy Engineering. However, applicants must have cleared and completed the admission requirement by September 20, 2017.
- ③ April admission is permitted for successful applicants to the Graduate School of Environment and Energy Engineering. However, applicants must have cleared and completed the admission requirement by the last day of March, 2018

Admission Process

The following is a provisional schedule. The official schedule will be included in the admission documents mailed to successful applicants.

1. Period of Submission

[September 2017 Admission]

May 31 (Wed.), 2017 (Must be in the office)

[April 2018 Admission]

December 6 (Wed.), 2017 (Must be in the office)

- ① All admission documents must be sent by the international courier service, such as EMS etc., which enables you to trace documents sent to us. Documents that arrive after the specified period will not be accepted.
- ② Use the correct size envelope to submit the required documents, which is 33 cm (H) × 24 cm (W).
- ③ Please write **Special International Screening/Admission Document** in red ink on the front of the envelope.
- ④ A certificate of receipt of the admission document will not be issued. To check whether or not the WEEE Admissions Office has received your admission documents, track your shipment with your tracking number.
- ⑤ We do not accept admission documents submitted in person to the Admissions Office.
- ⑥ A Certificate of Admission will be mailed when the admission procedures have been completed.

<<Send to>>

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

2. Refund of School Expenses

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 entrance procedures mailed to successful applicants.

3. Admission, Tuition, and Other Fees

Tuition and other fees for students enrolled in September 2017

(Unit: Yen)

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

Notes

1. The admission fee is waived for students who have graduated, completed, or dropped out from a Waseda University undergraduate school, graduate school, or special studies course and then re-enroll at the university.
2. The above tuition and other fees apply to students admitted in the September 2017 term.
3. Fees such as the experiment & practice fee are subject to change.

Acquisition of Residency Status

International students who are admitted into the School must acquire college student visa status. If you already have obtained a precollege student visa, you will need to change it to college student visa. Note that you will not be able to enroll in the university with short-term stay visa.

When applying for a college student visa, you will need to submit your passport and Certificate of Eligibility to the Japanese Embassy or Consulate General in your home country. (Visas are issued in approximately one week.) The School will apply for the acquisition of Certificate of Eligibility to the Tokyo Immigration Bureau of the Ministry of Justice for the successful students from overseas who have completed the designated admissions procedures. In the event the student has not submitted the designated documents or when a discrepancy is found in the submitted documents, the School will withdraw the application for the Certificate of Eligibility.

Please note that when the Certificate of Eligibility application is submitted by both the student and the School (double application), the Certificate of Eligibility will not be issued. In some cases the Immigration Bureau may request additional documents.

* A Certificate of Eligibility will be mailed to each student from the WEEE Admissions Office as soon as it has been issued.

Waseda University

Examination Fee Payment by Credit Card, Union Pay, and Alipay

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, Union Pay, and Alipay.



Access

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



You can access from our website too!

Web Application - Online Transaction

- | | |
|--|--|
| 1. Top Page | Click "Examination Fee". |
| 2. Terms of Use and Personal Information Management | Please read the Terms of use and 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, Alipay

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.

Enclose the printed "Result" page in an application envelope with other necessary application documents.



Application

[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	555 yen
30,000 yen ~ 49,999 yen	987 yen
50,000 yen ~ 69,999 yen	1,420 yen
70,000 yen ~ 99,999 yen	1,800 yen
100,000 yen ~ 199,999 yen	2,037 yen
200,000 yen ~ 299,999 yen	2,571 yen
300,000 yen ~	4,320 yen

For questions or problems not mentioned here, please contact :

E-Service Support Center Tel : +81-3-3267-6663 (24 hours everyday)

[特定国からの志願者に対する検定料免除措置制度]

[Screening fee waiver program for applicants from specified countries]

1. 概要／Outline

当学学部または研究科への入学を希望する出願者が、当学が指定する国に居住しかつ国籍を有する場合、本人からの申請に応じて検定料を免除します。

Applicants who wish to be admitted into an undergraduate or graduate school of Waseda University are eligible to apply for a screening fee waiver if they reside in one of the countries designated by Waseda University AND hold nationality of one of those countries.

2. 対象者／Eligibility

次の条件を全て満たす場合。The following conditions must be fulfilled:

1) OECD/DAC が発行する ODA 受給国リストに掲載される「Least Developed Countries」「Other Low Income Countries」の認定国に居住し、かつ該当国の国籍を有する方。ただし、居住国と国籍は同一の国である必要はありません。

* 対象国は下部参照。

* 日本国内に居住する場合は対象外とします。

1) The applicant must reside in one of the countries classified as "Least Developed Countries" or "Other Low Income Countries" 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).

* For the list of eligible countries, refer to "Eligible Countries" below.

* Applicants residing in Japan are not eligible.

2) 重国籍の場合は、いずれの国籍も前項の国に該当していることが必要です。

2) Applicants with dual nationality are only eligible if both nationalities are included in the list of eligible countries described in 1) above.

3. 手続／Procedures

当学学部または研究科を志願する際、出願書類として提出をもとめている検定料振込証明書（海外送金依頼書のコピーなど）の代わりに以下の書類を同封して申請してください。事後の申請はいかなる理由でも受け付けません。

When applying to an undergraduate or graduate school of Waseda University, please enclose the following documents with the other application documents instead of the certificate of payment for the screening fee (copy of the remittance form etc.). The application for the screening fee waiver program must be made along with the application for admission. Applications made afterward will not be accepted under any circumstances.

1) 検定料免除措置申請書（所定様式）

1) Application Form for Screening Fee Waiver

2) パスポートのコピー（本人に関する記載事項の全ての欄）

2) Copy of passport (including all details of the applicant)

* 本免除申請をする場合は、検定料を支払う必要はありません。なお、本免除申請を行う前に支払ってしまった場合には、検定料の返還は行いません。

* Applicants who apply for the screening fee waiver program are not required to pay the screening fee. However, if payment was made before the application for the screening fee waiver program, the screening fee will not be reimbursed.

* 万が一、申請者が本免除措置の対象とならない場合や、虚偽の申請があった場合は、その事実が判明した時点で出願自体を取り消すことがあります。

* In the event that the applicant is found to be ineligible for the screening fee waiver program or have made a false claim, the application for admission to Waseda University itself might be revoked immediately.

[対象国/Eligible Countries]

アフガニスタン、アンゴラ、バングラデシュ、ベニン、ブータン、ブルキナファソ、ブルンディ、カンボジア、中央アフリカ、チャド、コモロ、朝鮮民主主義人民共和国、コンゴ民主共和国、ジブチ、赤道ギニア、エリトリア、エチオピア、ガンビア、ギニア、ギニアビサウ、ハイチ、ケニア、キリバス、ラオス、レソト、リベリア、マダガスカル、マラウイ、マリ、モーリタニア、モザンビーク、ミャンマー、ネパール、ニジェール、ルワンダ、サントメ・プリンシペ、セネガル、シエラレオネ、ソロモン諸島、ソマリア、南スーダン共和国、スーダン、タジキスタン、タンザニア、東ティモール、トーゴ、ツバル、ウガンダ、バヌアツ、イエメン、ザンビア、ジンバブエ

Afghanistan, Angola, Bangladesh, Benin, Bhutan, Burkina Faso, Burundi, Cambodia, Central African Rep., Chad, Comoros, D.P.R.Korea, Democratic Republic of the Congo, Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gambia, Guinea, Guinea-Bissau, Haiti, Kenya, Kiribati, Laos, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Myanmar, Nepal, Niger, Rwanda, Sao Tome and Principe, Senegal, Sierra Leone, Solomon Islands, Somalia, South Sudan, Sudan, Tajikistan, Tanzania, Timor-Leste, Togo, Tuvalu, Uganda, Vanuatu, Yemen, Zambia, Zimbabwe

受験番号 (事務所記入欄 For office use only)

2017年度 早稲田大学検定料免除措置申請書
Application Form for Screening Fee Waiver, 2017
Waseda University

申請日： 年 月 日
Date of Application: Year Month Date

早稲田大学の検定料免除を希望する場合は、本様式を作成し、他の書類と一緒に提出してください。また、本申請をする場合、所定の検定料の支払は不要です。万が一、支払った場合でも、返金は出来ませんので注意してください。

If you would like to apply for a screening fee waiver, please submit this application form with the other required documents. If you apply for a screening fee waiver, you are not required to pay the screening fee. Please note that you will not be reimbursed under any circumstances once the payment of screening fee has been made.

出願学部・研究科：

Name of the Undergraduate School/ Graduate School which you are applying

出願者氏名：

Applicant's Name 姓(Family), 名(Given & Middle)

国籍 1：

Nationality 1

国籍 2：

Nationality 2 (for applicants with dual nationality)

現住所：

Current Address

出願者署名：

Applicant's Signature

印

Seal (if available)

[対象国/Eligible Countries]

アフガニスタン、アンゴラ、バングラデシュ、ベニン、ブータン、ブルキナファソ、ブルンディ、カンボジア、中央アフリカ、チャド、コモロ、朝鮮民主主義人民共和国、コンゴ民主共和国、ジブチ、赤道ギニア、エリトリア、エチオピア、ガンビア、ギニア、ギニアビサウ、ハイチ、ケニア、キリバス、ラオス、レソト、リベリア、マダガスカル、マラウイ、マリ、モーリタニア、モザンビーク、ミャンマー、ネパール、ニジェール、ルワンダ、サントメ・プリンシペ、セネガル、シエラレオネ、ソロモン諸島、ソマリア、南スーダン共和国、スーダン、タジキスタン、タンザニア、東ティモール、トーゴ、ツバル、ウガンダ、バヌアツ、イエメン、ザンビア、ジンバブエ

Afghanistan, Angola, Bangladesh, Benin, Bhutan, Burkina Faso, Burundi, Cambodia, Central African Rep., Chad, Comoros, D.P.R.Korea, Democratic Republic of the Congo, Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gambia, Guinea, Guinea-Bissau, Haiti, Kenya, Kiribati, Laos, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Myanmar, Nepal, Niger, Rwanda, Sao Tome and Principe, Senegal, Sierra Leone, Solomon Islands, Somalia, South Sudan, Sudan, Tajikistan, Tanzania, Timor-Leste, Togo, Tuvalu, Uganda, Vanuatu, Yemen, Zambia, Zimbabwe

Areas of Research Guidance and Faculty Members

[[Doctoral Program/Research Content]

Environmentally-Conscious Systems and Machines Hiroshi Sekiya

At a time when measures against global environment and energy issues have become urgent, research and development of environment-conscious systems and machinery that contribute to the reduction of environmental loads is becoming increasingly important for the sustainable development of society and the sustenance and recycling of the natural environment.

We focus on highly efficient system equipment using external-combustion engine and natural refrigerant as one step in the solutions to these problems, as well as the development of a method for their optimal design. Application to next generation distributed electricity generation, cogeneration and highly efficient refrigeration and air-condition suitable for energy conservation and clean energy will be attempted. Research will also be conducted on the optimal uses of recyclable and unused energy through the system equipment.

Energy and Environmental Policies Shinichi Tomonari

Energy and environmental problems are comprehensive social issues covering a wide range of academic fields.

When perceiving energy and environmental problems from a political perspective, it is necessary to consider the theory as it is presented and the theory behind-the-scenes.

Research guidance in this area aims to foster eyes that can see the true nature of energy and environmental policy, and the ability to seek a meaningful policy while considering the technical, economical, social, international, and diplomatic aspects of that policy.

Environment - Energy Network Research Yosuke Nakanishi

Energy systems have many component facilities that are organically integrated and regionally expanded large-scale entities. Full consideration to environmental preservation should be given for generation, transport, distribution and use. This class aims for the students to acquire methods for (1) construction of energy system with focus on environmental preservation, (2) modeling for analysis and evaluation of energy market, and (3) optimization for planning, operation and control. The emphasis is on students experiencing the process, from the identification of issues, planning and executing research projects, problem solving, to presentation of research results, and to support the writing of their theses.

Environment and Power Systems Jin Kusaka

The experiment study on combustion and performance of modern and next generation engine systems, formation and reduction of hazardous emissions, and automobile power systems, such as fuel battery vehicles, are conducted along with the theoretical study of quantitative calculations based on transport theory and chemical reaction speed theory.

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.

Guidelines for Waseda University Entrance Examinations

Waseda University

Waseda University has provided the following guidelines so that all examinations can be properly administered and all examinees have an opportunity to perform in a fair and equitable environment. Please read the guidelines carefully and approach the examination in a serious manner.

1. You may be deemed to have committed a dishonest act if Waseda University determines that you have falsified, fabricated, or plagiarized the document(s), statement(s), or information submitted for your application.
2. In addition, the following responses may be taken if a dishonest act is identified.
 - The applicant may not be allowed to continue taking the examination or allowed to take any other entrance examination given by Waseda University during the year. (Screening fees will not be returned.)
 - The results of all entrance examinations taken by the applicant at Waseda University during the year may become invalid.

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