

2022

Nagasaki University
Graduate School of Engineering
Doctoral Degree (5 Year Program)

Application Guidelines

Department of Advanced Technology and Science
for Sustainable Development

**Entrance Examinations for
International Students**

Nagasaki University, Graduate School of Engineering

Bunkyo 1-14, Nagasaki 852-8521, Japan

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

FAX +81-95-819-2587

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Admission Policy

Department of Advanced Technology and Science for Sustainable Development
(ATS Department)

1. Educational Philosophy and Aim of the Graduate School of Engineering

(Educational Philosophy)

As an educational and research base for advanced engineering which coexists with nature and commits to the sustainable development of human society, the Graduate School of Engineering will foster highly professional engineers and researchers who possess professional and interdisciplinary knowledge along with as high expertise across a wide range of engineering topics, and who will be able to play an active role in the international field. We will also contribute to promoting innovative science and technology of next generation through conducting pioneering and innovative research.

(Aim)

To develop in students professional and interdisciplinary knowledge along with high expertise across a wide range of engineering topics, and to cultivate their skills to explore and solve problems as well as their capabilities to conduct internationally pioneering research and development.

2. Educational Philosophy and Aim of the Department of Advanced Technology and Science for Sustainable Development of the Graduate School of Engineering

This five-year graduate course of the Department of Advanced Technology and Science for Sustainable Development (ATS Department), the Graduate School of Engineering, focuses on the field of generation and utilization of green energy in order to cope with the worldwide crises such as global warming and related energy problems. We aim to foster researchers who can lead a pioneering research based on the advanced fundamental knowledge that enables to take an outlook of the entire field, and also who can contribute to international academia.

3. Admission Policy of the Department of Advanced Technology and Science for Sustainable Development (ATS Department) of the Graduate School of Engineering

The ATS Department expects its students to have the following academic skills, competencies and attributes:

- High academic achievement at the Bachelor's level in the field of mechanical engineering, electrical and electronic engineering, information technology, civil engineering, chemistry, and materials science.
- Attitude and aptitude to learn and acquire knowledge across a wide range of fields related to Green Systems.

- Strong willingness to become a researcher who can play an active role in international academia along with demonstrative skills to express his/her willingness clearly.
- Fundamental skills to acquire (during the study period) English skills in communication and thesis writing required as an independent researcher.
- Recognized competencies to acquire (during the study period) skills for discovering and exploring problems as well as for managing research projects required as an international researcher.

Appendix about the Screening Method

Evaluation methods for the required aptitude and its priority (most prioritized : ◎, prioritized : ○)

Examination Type Expected Competencies		Fundamental academic skills in the discipline of engineering	Attitude and aptitude to learn about Green Systems	Strong willingness to become a researcher who can play an active role in international academia	Fundamental skills to acquire English skills required as a researcher	Competencies to become an international researcher
Admission Examination on Recommendation	Academic record of undergraduate work	◎	○		○	○
	Oral Examination (Assessment on fundamental academic skills and professional knowledge)	◎				
	Interview (including Oral Examination)		○			
	Interview (Assessment on fundamental skills)				○	
	Interview			○		○
General Examination	Academic record of undergraduate work	○	○		○	○
	Writing Examination	◎				
	Interview (including Oral Examination) (on professional knowledge)	◎				
	Interview (including Oral Examination)		○			
	Interview			○		○
	Score of English Test including TOEIC				○	
Examination for International Students	Interview (including Oral Examination)	◎	○		○	
	Interview			○		○

☆Financial aid for students in the Department of Advanced Technology and Science for Sustainable Development

The financial aid will be available for students in the Department of Advanced Technology and Science for Sustainable Development in order to ease students' financial burden for "Off-Campus Research" in overseas research institutions (mandatory subject).

The off-campus research scholarship will be granted based on the internal regulation of the Doctoral Degree (5-year Program) Research Subsidy, Department of Advanced Technology and Science for Sustainable Development, Graduate School of Engineering, Nagasaki University after screening the eligibility at the board meeting.

1. Number of Students to be Admitted

Department	Program	Number of Students to be Admitted
Department of Advanced Technology and Science for Sustainable Development	Next Generation Energy System Program	Few
	Advanced Functional Materials Program	

2. Application Requirements

Non-Japanese citizens, excluding foreigners with permanent residence permit, must fulfill one of the following requirements:

- (1) Those who have completed (or will complete by March, 2022) 16 years of standard school education in countries other than Japan.
 - (2) Those who have completed (or will conferred by March, 2022) 16 years of standard school education, in Japan, after the completion of required correspondence courses, conducted by authorized school outside of Japan.
 - (3) Those who have completed (or are expected to conferred by March, 2022) 16 years of standard school education after completing postgraduate courses at the foreign education institutes in Japan, recognized by the Ministry of Education , Culture, Sports, Science.
 - (4) Those who have a degree equivalent to Bachelor degree or are expected to be conferred by March 2022 by completing a course (*1) of more than 3 years at overseas universities or educational institutions (*2).
- *1: completing corresponding course in Japan by the said overseas educational institutions or completing course at educational institutions authorized as educational institutions by the said countries and designated in the preceding item
- *2: overseas universities or educational institutions which are evaluated by those whom are approved by the said country's government or government's related institutions or which are designated by the Minister of Education, Culture, Sports, Science and Technology of Japanese Government
- (5) Those who have an academic degree equivalent to or higher than Bachelor's Degree approved by this graduate school through individual preliminary screening, and will be at least 22 years of age by March 31, 2022. (Refer to "3. Eligibility Preliminary Screening")

3. Eligibility Preliminary Screening

- (1) Candidates applying under the "Application Requirements (5)" must submit the following documents to the Student Affairs Section for the Graduate School of Engineering by September 17, 2021 (Fri).

Submission Documents	Note
Certified (original) copy of Graduation Certificate / Expected Graduation	Issued under the authority of the president of the university where applicant graduated from. No copy of diploma is acceptable.
Official Transcript	Issued and officially sealed under the authority of the president of the university where applicant graduated from.
Application for Preliminary Screening	Prescribed Application Form by this graduate school
Application Form	Prescribed Application Form by this graduate school
Certificate of Research Career	Prescribed certification form by this graduate school and verified by the head of the institution.
Outline of Research Content	Prescribed form by this graduate school
Return Envelope for Preliminary Screening Result (No. 3 Long Type (12 cm × 23.5 cm))	A self-addressed return envelope with worth of stamps affixed. (Express)

* Forms are available for downloading form the home page "The Graduate School of Engineering, Nagasaki University". (URL : http://www.eng.nagasaki-u.ac.jp/english/contents/01_g_admission.html)

- (2) The results for Eligibility Preliminary Screening will be sent to the candidates by October 14 2021 (Thu). Those who are deemed eligible for application must follow the procedures set out in “4. Application Period” and “5. Application Procedures”.

4. Application Period

From October 26, 2021 (Tue) to November 1, 2021 (Mon)

- (1) Applications must be posted by registered express mail service and received by November, 1 (Mon).

Postal Address: Student Affairs Section for the Graduate School of Engineering
West District Division, Nagasaki University
1-14 Bunkyo, Nagasaki 852-8521, Japan

- (2) Candidates may submit the documents in person between 9:00 and 17:00

Except weekends and national holidays.

5. Application Procedures

Candidates must submit the following documents to the Student Affairs Section for the Graduate School of Engineering by the deadline.

* Forms can be downloaded from the following link:

http://www.eng.nagasaki-u.ac.jp/english/contents/01_g_admission.html

* You can receive the payment transfer form of the entrance examination fee and the address sticker at the Student Affairs Section or ask them by mail (see “16. Other Information”).

Submission Documents	Note
Application Form	Consult with your prospective academic advisor prior to filling out this form (Reference “Faculty List and Research Focus”). Except for those already submitted for the eligibility preliminary screening.
Photo Card / Admission Ticket / Payment Certificate for the Entrance Examination Fee	
Certified (original) copy of Graduation Certificate / Expected Graduation Certificate	Issued under the authority of the president of the university where candidate graduated from. No copy of diploma is acceptable. Except for those already submitted for the eligibility preliminary screening. A person who falls under the requirement (4) and whose certificate does not indicate that the he/she has been awarded with an academic degree equivalent to Bachelor’s Degree needs to submit a degree conferral certificate separately.
Official Transcript	Issued and officially sealed under the authority of the president of the university where candidate graduated from. Except for those already submitted for the eligibility preliminary screening. In addition, the standard list for credits issued by the university must be submitted.
A proof of legal status in Japan	A photo copy of the Visa or Residence Card
The score sheet of “TOEIC® Listening & Reading Test”, or “TOEFL iBT®” (Candidates who do not submit one of those score sheets must take the English oral examination.)	The score sheets are valid only with TOEIC or TOEFL tests held within three years of the day of the entrance examination. The official score certificate will be returned enclosed along with the admission ticket. In case the score certificate of any of the tests listed on the left cannot be prepared in time, it shall be submitted to the Student Affairs Section by the noon of the day before the examination.

<p>Entrance Examination Fee ¥30,000</p>	<p>(Payment Period) From October 26, 2021 (Tue) to November 1, 2021 (Mon)</p> <p>(Payment Places) At any bank. Note: Payment must be made at the counter in the bank. Payment through ATM is not available</p> <p>(Payment Method) Bank Transfer Only. Candidates must fill in their name, address, telephone number correctly with a black or blue pen in the ※-marked boxes on the supplied payment transfer form. Additional transfer fee will borne by the candidates. Please make sure the payment certificate has a seal of the handling bank.</p> <p>(Important Notice for your application) Application will not be accepted if the payment for the Entrance Examination not been made by the specified date, or missing of the bank seal on the payment certificate, or the payment receipt not been attached in the prescribed Form. If you make the payment on the last day, remember to submit all the application documents by 17:00 on the day. (Please make sure the business hours of the bank) The Entrance Examination Fee is not refundable except for the following circumstances. The payment has been made but did not apply (Either did not submit the application or the application been refused), or accidentally made the payment twice. In principal, candidates shall bear the cost of refund. Request for the refund must be made within 14 days from the last day of the application period. 〔Inquiries regarding refunds〕 Accounting Division, Finance Department, Nagasaki University (TEL +81-95-819-2060)</p> <p>* Overseas students on Japanese government (Monbukagakusho: MEXT) scholarship are not required to pay the fee.</p>
<p>Address Sticker</p>	<p>Candidates must fill in their name, address, and the postcode accurately. If there are any changes after submission, candidates must notify immediately.</p>
<p>Return envelope for the admission ticket (No. 3 Long Type (12 cm × 23.5 cm))</p>	<p>A self-addressed prescribed envelope with ¥374 worth of stamps affixed. (Express)</p>

6. Notes on the Application

- (1) No changes can be made on the application form after the submission.
- (2) All the submitted documents for the application cannot be returned for any reason.

7. Screening Method

Successful candidates will be determined through an interview and an oral examination.

(1) Examination Date and Time

November 16, 2021 (Tue) 10:00 AM

* We will adjust the time considering any time difference when the entrance examination takes place over the internet.

(2) Acceptance Criteria

The result of interviews and oral examinations will be evaluated based on the following method. Successful candidate(s) will be selected in the descending order of score. However, candidates must score a minimum of 60 points out of 100.

Method of Evaluation

An individual interview will be held by multiple interviewers. The total of ① and ② will be marked out of 100 points.

① Interview

Candidates will be evaluated on their motives for application, motivation toward study, general knowledge and social skills in comprehensive way through an interview in reference to the application documents. (Allocation of 30 points).

② Oral examination

Candidates will be evaluated on their basic scholastic achievement as well as special knowledge through the oral interview (a) and (b). (Allocation of 70 points).

(a) Evaluations include English and Mathematical basic scholastic achievement.

English is evaluated using the score sheet of “TOEIC® Listening & Reading Test”, or “TOEFL iBT®”. However the English oral examination will be held if candidates don't submit any of those score sheets.

* The score sheets are valid only with TOEIC or TOEFL tests held in three years from the day of the entrance examination.

* The original version of your score sheet must be submitted at the time of application.

(b) As for the special knowledge, candidate's basic knowledge of their expertise area will be evaluated through questioning with the consideration of candidates' expertise, such as dynamics, thermodynamics, continuum dynamics, electromagnetics, electrical circuit, organic chemistry, inorganic chemistry, physical chemistry, metallurgical engineering, ceramic materials engineering, and polymer materials engineering.

(3) Entrance Examinations over the Internet

International Students may be eligible to take an Interview and an Oral Examination over the Internet. Candidates of the Online Interview must first contact his/her prospective academic advisor and send him/her a resume and contents of their research at least a month before the first day of the application period. Candidates must make sure to thoroughly discuss with his/her prospective academic advisor before applying.

8. Examination Venue

Graduate School of Engineering, Nagasaki University,
Bunkyo 1-14, Nagasaki 852-8521, Japan

9. Notes on the Examination

- (1) Please make sure your rendezvous point for the examination in the afternoon of the previous day. (Please note that entering class room is prohibited.)
- (2) Candidates must bring the Admission Ticket issued by this graduate school on the day of the examination.
- (3) Candidates must be at the designated rendezvous point 20 minutes before examination starts. (Latecomers who arrive after 10:00 will not be permitted to take the examination.)
- (4) All cellular phones must be turned off before entering the examination room.
- (5) Candidates from distant areas need to plan the trip carefully in consideration of possibilities of the inconveniences caused by the weather conditions. The examination date may be postponed in case of unforeseen event such as natural disaster on the day of the examination.
- (6) In principle, no supplementary examination will be available, however, it may be conducted depending on the infection status of the COVID-19. In addition, in case of unforeseen event, a re-examination may be conducted.

10. Announcement of Successful Candidates

December 3, 2021 (Fri) 10:00 AM

- * The results for the successful candidate(s) will be notified through mail and also announced on the Graduate School of Engineering notice board on the day.
- * Also successful candidate(s) will be listed on the homepage of Graduate School of Engineering, Nagasaki University from 10:00 AM on the day.
(URL : http://www.eng.nagasaki-u.ac.jp/english/contents/01_g_admission.html)
- * Inquiries regarding the examination results will not be accepted over the phone.

11. Enrollment Procedures

Successful candidates must follow the enrollment procedures outlined below. More details will be notified in the middle of January, 2022.

(1) Procedures Period

From February 7, 2022 (Mon) to February 9, 2022 (Wed) 9:00-17:00

(2) Fees

Enrollment Fee ¥282,000

(Note) Enrollment fees shall not be refunded once paid.

[Additional Information]

- ① Tuition Fee for 2021 (Annually): ¥535,800 (The first semester ¥267,900 / The second semester ¥267,900)
- ② Payment periods for the tuition fee will be as follows.
The first semester: April
The second semester: October
- ③ If the amendment of tuition fee has been conducted, the new tuition fee will apply from the date of revision.
- ④ The Exemption of deferment of enrollment fee and tuition fee will be available. (Details will be enclosed with the procedural documents)
- ⑤ Admission and tuition fees are not required for international students supported by Japanese government (Monbukagakusho: MEXT) scholarships.

12. Handling of Personal Information

- (1) Obtained personal information is used for selecting enrollees. The personal information of successful candidates and enrollees are used for enrollment procedures, and the student registration.
- (2) The grades of the entrance examination and other personal information are used as the references for the recommendation of the 1st year scholarship students, as well as for the selection of the candidates for exemption of entrance fee and tuition fee.
- (3) Obtained personal information for the selection of enrollee, and for the entrance examinations are also used in statistical surveys and research related to the selection of enrollees.
- (4) Obtained personal information through (via) the application documents and entrance examination are not used for the purposes other than the purposes mentioned above nor to provide to the third parties, except the case as provided in Article 9 of “Act on the Protection of Personal Information Held by Independent Administrative Agencies”.

13. For Applicants Requiring Disability-related Accommodations

Applicants with disabilities who require (assistance / special care) on their examination as well as attending classes may consult with the Student Administration Office of the Graduate School of Engineering. Applicant should include the following information along with a medical certificate by October 15, 2021. Applicants will never be negatively affected in the screening process by the results of an advance consultation. If necessary, an interview may be held with applicant or the spokesperson from the university where the applicant received his/her last degree. If one fails to apply in advance, it might result in no (assistance/special care) available.

The description of the application form

- (1) Category of the Entrance Examination and the name of the course you apply
- (2) Type and condition of disabilities
- (3) Description of assistance request at the entrance examination
- (4) Description of the assistance request after enrollment
- (5) The assistance service received at the former academic institute
- (6) Additional information
- (7) Name, Address, and the Contact Phone Number (FAX Number)

☆Nagasaki University Student Accessibility Office will support students and applicants with disabilities.

14. Security Export Control

Nagasaki University performs the security export control based on "Foreign Exchange and Foreign Trade Act " so that education and study contents to foreign students do not obstruct maintenance of international peace and the security. Please thereby note it because the applicants may demand the change of education and study contents to hope for. In addition, please inquire for the details of each department.

15. Measures on the Novel Coronavirus Infection

Before submitting your application, should you aware that the following measures may be taken depending on the situation of spread of the COVID-19. The examination date may be postponed or the selecting method may be changed (Ex.Interviews may be conducted online) and additional examination may be conducted. Further more, the postponement of the examination date will be announced on the website of the Graduate School of Engineering, Nagasaki University.

(URL : http://www.eng.nagasaki-u.ac.jp/english/contents/01_g_admission.html)

16. Other Information

- (1) The course will be determined by the candidates' request.
- (2) The request for the application forms (the payment transfer form of the entrance examination fee and the address sticker) by mail requires a self-addressed return envelope (24 cm x 33 cm) with ¥120 worth of stamps affixed. The request must be sent to the Student Affairs Section for Graduate School of Engineering in the envelope with "Request for Doctoral Degree (5 Year Program) Application Forms, Graduate School of Engineering, Nagasaki University" written in red ink on the front.

Inquiry

Student Affairs Section for the Graduate School of Engineering
West District Division , Nagasaki University
Bunkyo 1-14, Nagasaki 852-8521, Japan

Diploma Policy

Doctoral Degree of Engineering will be conferred on a student who has been enrolled in the Graduate School of Engineering for more than five years, and who has earned the credits (more than 45 credits) prescribed in the educational program (refer to [1]). The student must also be recognized to have the following skills and attributes:

- Truly professional and interdisciplinary knowledge which enables to write a general thesis that takes an outlook of domestic and international research area.
- Skills to take the initiative in promoting innovative and pioneering research based on a global perspective.
- English communication skills and thesis-writing skills in English required to start a career as an international researcher.
- Sense of ethics in conducting world-class research, presentation skills required to give an oral lecture at international conference, and leadership in research required to provide guidance to research students. In addition to being equipped with these attitudes, the student needs to demonstrate his/her skills as an advanced researcher.

In addition to the above, the student's doctoral thesis must meet the requirements and pass the final examination (which assesses the 1st and 2nd skills mentioned above) for a degree conferral (refer to [2]).

[1] A student who has achieved outstanding performance might be conferred degree even if he/she has been enrolled only for three years.

[2] The Doctoral Thesis must be relevant to engineering and must have high academic value in novelty, creativeness, universality and demonstrability as world-class thesis paper. In order to prove its suitability as a doctoral thesis, the submitted paper must include at least three original theses that have been published or intended to be published in an academic journal based on its established assessment system (subject to the submission of at least two original theses after the student's entrance in the five-year Doctoral Course of the Graduate School of Engineering. The submitted paper may include one original thesis under review for publication in an academic journal based on its established assessment system.).

Master's Degree of Engineering may be conferred on a student who has passed the mid examination at the end of the 2nd year, and who, at the time of this middle evaluation or later, has submitted both withdrawal request and master's thesis, which has been reviewed and recognized as equivalent to a degree thesis, and who has passed the final examination. The submitted paper must be relevant to engineering and must have academic value in novelty, creativeness, universality and demonstrability.

Curriculum Policy

The Department of Advanced Technology and Science for Sustainable Development consists of the Next Generation Energy System Program and the Advanced Functional Materials Program. In a planned and consistent guidance based on the five-year curriculum of these programs, we will nurture the following practical skills required as researchers who can take an active role in international academia after graduation.

- ” English and International Practical Course” nurtures practical skills required as an international researcher, including English communication skills, thesis-writing skills in English, and English presentation skills. Therefore, it is mandatory for students to participate in lectures and discussions conducted in English by distinguished researchers, and to give a presentation and receive on-the-ground feedback at international conference.

Academic achievement will be measured by submitted report, oral examination, writing examination, presentation and discussion, depending on the contents of each course.

- ” Practical Course for Nurturing Researchers” nurtures practical research skills as an innovative and pioneering researcher in international academia, including sense of ethics in conducting world-class research, global spirit of scientific innovation in Green System, skills to invent and explore problems, management skills and leadership in conducting research. Therefore, it is mandatory for students to write and propose a general thesis which takes an outlook of domestic and international research area, and to conduct research in international institutions (including universities abroad).

Academic achievement will be measured by submitted report, presentation, discussion, and grades of general thesis, depending on the contents of each course.

- ” Advanced Fundamental Course” nurtures high-level and fundamental academic skills in order to acquire a higher perspective and knowledge across a wide range of fields related to Green System. Therefore, the lectures will involve some practical activities, not placing disproportionate weight on a specific field of science and technology.

Academic achievement will be measured by submitted report, writing examination, presentation, and discussion, depending on the contents of each course.

- ” Practical classes in Pioneering Technology Course” nurtures skills to take the initiative in promoting innovative and pioneering research based on a global perspective, through conducting research in laboratory and participating in seminars and debates.

Academic achievement will be measured by submitted report, presentation, and discussion, depending on the contents of each course.

- ” Pioneering Technology Course of the Next Generation Energy System Program” nurtures truly professional knowledge and advanced professional technology about devices and systems in relation to the generation and utilization of energy which contributes to sustainable development of society. The course will be conducted through lectures that involve some practical activities.

Academic achievement will be measured by submitted report, writing examination, presentation and discussion, depending on the contents of each course.

- ” Pioneering Technology Course in the Advanced Functional Materials Program” nurtures scientific knowledge on highly functional materials in relation to the generation and utilization of energy which contributes to sustainable development of society, as well as high expertise in discovering and applying materials. The course will be conducted through lectures that involve some practical activities.

Academic achievement will be measured by submitted report, writing examination, presentation and discussion, depending on the contents of each course.

Appendix about the courses of the Department of Advanced Technology and Science for Sustainable Development

Courses		English and International Practical Course	Practical Course for Nurturing Researchers	Practical classes of Pioneering Technology Course	Advanced Fundamental Course	Pioneering Technology Course of the Next Generation Energy System Program (excluding practical classes)	Pioneering Technology Course of the Advanced Functional Materials Program (excluding practical classes)
Attributes							
Key attributes to be nurtured	Advanced professional and interdisciplinary knowledge		Comprehensive Seminar in Advanced Technology for Sustainable Development I Comprehensive Seminar in Advanced Technology for Sustainable Development II Computational Sciences and Supercomputing		Energy Conversion State-of-the-art Energy Devices Introduction to Nanotechnology Mathematical Analysis for Engineering Problems Principle of Energy and Environments State-of-the-art Functional Materials Introduction to the Ocean Development Industry	Advanced Electric Energy and Control Advanced Thermodynamics in Functional Devices Advanced Mechanics of Solids Refrigeration and air conditioning technology Advanced Electric Energy Equipments Advanced Control of Power Converters Advanced Energy-Storage Device Materials Advanced Thermal Fluid Energy Conversion Advanced Fracture Analysis Advanced Applied Physics in Functional Devices Advanced Structural Analysis of Crystals	State-of-the-art Electric Materials Polymer Materials Advanced Functional Coordination Chemistry Strategy for Efficient Organic Synthesis Ultra Precision Mechanics Advanced Efficient Organic Synthesis Advanced Molecular Transformations Green Magnetics State-of-the-art Science of Molecular Organization Design of Advanced Machine Advanced Sensing Science Advanced Polymer Science
	Research skill based on a global perspective	International Seminar I International Seminar II International Seminar III	Off-Campus Research	Special Seminar in Energy System I Special Seminar in Energy System II Special Seminar in Material Science I Special Seminar in Material Science II			
	English skill as an international researcher	International Seminar I International Seminar II International Seminar III Advanced English Course for Researchers I Advanced English Course for Researchers II Training for Presentation in International Symposium I Training for Presentation in International Symposium II Research English and Communication	Off-Campus Research				

	Sense of ethics, Presentation skill, Leadership in conducting research, Practical skill	Research English and Communication	Research Ethics Management of Intellectual Property Research Proposal Exercise for Research Instruction Off-Campus Research	Special Seminar in Energy System I Special Seminar in Energy System II Special Seminar in Material Science I Special Seminar in Material Science II			
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Faculty List and Research Focus

Next Generation Energy System Program		
Faculty	Position	Research Focus
KONDOU Chieko	Professor	Study on Environmentally Benign Heat Pumps and High-Performance CPU Coolers
SAIMOTO Akihide	Professor	Prediction and Engineering Application of Fracture in Solids
MORIGUCHI Isamu	Professor	Development of Energy Storage Device Materials via Nanostructural Control
YAMASHITA Takahiko	Professor	Design of High Reliability Insulation in Energy Transportation and Conversion System
OHGAI Takeshi	Asso. Prof.	Fabrication of Functional Metallic Materials Using Electrodeposition Technique
HAMASAKI Shinichi	Asso. Prof.	Application and control of power converter system for grid connection
MORIMURA Takao	Asso. Prof.	Development and Structural Analysis of Thermoelectric Materials

Advanced Functional Materials Program		
Faculty	Position	Research Focus
KIMURA Masanari	Professor	Development of Efficient Organic Synthesis for Functionalized Materials
SAGARA Takamasa	Professor	Advanced Design of Electrified Interfaces for Functional Molecular Assemblies
SHIMIZU Yasuhiro	Professor	Design, Control and Application of Functional Ceramic Materials
NAKATANI Hisayuki	Professor	Study of Polymer Degradation Mechanism and Development of Biodegradable Polymer
NAKANO Masaki	Professor	Preparation of magnetic materials applied for electronic devices
YAZAWA Takanori	Professor	Machining and Measurement of Functional Material
ARIKAWA Yasuhiro	Asso. Prof.	Activation of Small Molecules by Transition Metal Complexes
CHAN Bun	Asso. Prof.	Application and Development of Computational Quantum Chemistry