



Kanazawa University
Graduate School of
Natural Science and Technology
(Master's Level Section)

Division of Material Chemistry (Applied Chemistry Course) /
Division of Mechanical Science and Engineering (Environment and
Human related Mechanical Systems Course) /
Division of Environmental Design /
Division of Natural System (Chemical Engineering Course)

Environmental Education in the Japan-China-Korea
Environment & Eco-Technical Special Course

Application Outline for Admission
in October 2014 (for International students)

In April 2011, the Graduate School of Natural Science and Technology of Kanazawa University established the Environmental Education in the Japan-China-Korea Environment & Eco-Technology Special Course. The Course crosses over some different specializations (division of material chemistry, division of Mechanical Science and Engineering, division of environmental design, and division of natural system) in the Master's Level Section of the Graduate School of Natural Science and Technology. The purpose of the Course is to produce eco-engineers who have the knowledge and skills in environmental technology to contribute to the development of a sustainable society beyond the boundaries of Japan, China and Korea. In cooperation with industry and government, we provide practical education that will qualify students to work in manufacturing companies in East Asia that endeavor to make the best use of natural resources and reduce their environmental impact.

Information for International students who would like to apply for the course, which will begin in October 2014, is given below.

The name of the Course will be changed to "Environmental Technology International Course (abbr. ETIC (tentative))" from October 2014, and we plan to increase the number of countries from which we accept application for the course (not limited to Japan, China and Korea) and to expand the curriculum.

1. Application/Selection Schedule

Date/Time Period	Procedure
January 6 (Monday) to January 14 (Tuesday), 2014	Application period Please submit in PDF format during the designated period (January 6-14, 2014); also you must submit original application form after your admission.
January 24 (Friday), 2014	Notification of schedule on screening
Mid-February, 2014 (tentative)	Screening (based on written and oral examinations, and submitted documents)
Early March, 2014 (tentative)	Notification of results of screening and passing decision
October 1(Wednesday), 2014	Admission

2. Application Qualifications and Conditions

- Number of applicants accepted

Category	Number of applicants accepted
Scholarship international students	8
Self-financed international students	8

- Field of offered

Environmental engineering fields (atmospheric environment, water environment, soil environment, waste management, etc.)

- Research field and supervisor

Please select your desired field of specialization (Division of Material Chemistry, Division of Mechanical Science and Engineering, Division of Environmental Design, and Division of Natural System) at Kanazawa University, and your desired supervisor before the time of application.

Professors who can accept students in the course are listed at the end of this brochure. Applicants should check the specialization, research themes, and email addresses of professors on the websites listed below.

Prior to application, applicants must contact their desired supervisor directly via email or other means to discuss the possibility of studying under their guidance. Then, applicants must get a letter of acceptance (15) from prospective supervisor. Note that we can't accept the application if he/she has not submitted the letter of acceptance from prospective supervisor.

URL < http://kurt.kanazawa-u.ac.jp/souran_ku/index.php >

● Academic Background

An applicant must have completed 16 years of the school curriculum in a foreign country, or is expected to complete the curriculum by September 30, 2014. Applicants must also be recommended by an official at the department level or higher (e.g., head of the department) of the following universities from which he/she graduated, or will graduate.

- ① Asian universities designated by Kanazawa University
- ② Asian universities which are partner institutions with Kanazawa University (both university and department level) except for ①.
- ③ Asian universities except for ① and ②.
- Asian countries are in accordance with countries designated as Asia by Ministry of Foreign Affairs of Japan. (URL : <http://www.mofa.go.jp/mofaj/area/asia.html>)
- Partner institutions are listed at the end of this brochure.
- If an applicant has not completed 16 years of the school curriculum of a foreign country, please contact us by email before a term of application.

Address: Graduate School of Natural Science and Technology, Kanazawa University (Environment & Eco-Technology Special Course),
Kakuma-machi, Kanazawa City, Ishikawa, JAPAN 920-1192
E-mail asiainfo@adm.kanazawa-u.ac.jp

● Academic Record and Standards

Kanazawa University has determined that successful scholarship applicants must have a GPA (Grade Point Average) of 2.0 or higher over the previous two years.

Kanazawa University has also provided a formula to calculate your GPA in the table below.

Method to Determine GPA

		Grade Point			
4-point scale		Excellent	Good	Average	Fail
4-point scale		A	B	C	F
4-point scale		80~100%	70~79%	60~69%	0~59%
5-point scale	S	A	B	C	F
5-point scale	A	B	C	D	F
5-point scale	90~100%	80~89%	70~79%	60~69%	0~59%
Point value	3	3	2	1	0

$$\frac{(\text{number of 3 point grades}) \times 3 + (\text{number of 2 point grades}) \times 2 + (\text{number of 1 point grades}) \times 1 + (\text{number of 0 point grades}) \times 0}{\text{Total number of grades (including those with a value of 0)}}$$

● Age

The date of birth of an applicant must be April 2, 1989 or later.

However, special consideration may be given to applicants who have completed their obligatory military service. In such a case, the applicant must submit a certificate of completion of his/her military service with other application documents.

● Health

The physical and mental health of an applicant should be such that there are no health problems that will hinder his/her study at Kanazawa University.

- **Japanese Language**

An applicant should actively desire to study the Japanese language, as well as learn environmental technology and the business practices of Japanese companies. Also, he/she should have an interest in Japan, and be eager to deepen his/her understanding of Japan after arrival in the country. Further, he/she should have the abilities required for study and for adapting to life in Japan.

3. Application Procedures and Selection of Applicants

(1) Application procedure

- **Submission of application form**

Applications should be submitted as PDF files of application form to the E-mail address as follows. Also, you must submit all original documents after your admission. Please make sure to bring all the original documents when you come to Japan.

For applicants from designated schools, please submit the application form through the international student section of your affiliated school. For applicants from schools other than designated schools, please submit directly.

Application period: January 6 (Monday), 2014 to January 14 (Tuesday), 2014

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Required documents

- (1) Application checklist (form1)
- (2) Application form (form2)
- (3) Field of Study and Study Plan form (form3)
- (4) Statement of purpose (form4)
- (5) Letter of Recommendation (must be a recommendation from the head of a department (dean, etc.) or higher level of the designated school).
- (6) Official Academic Transcript
- (7) Certificate of Graduation or of Expected Graduation ※ expect Chinese students
- (8) Certificate of Completion including the document number and degree awarded (diploma, etc.) (the People's Republic of China's Ministry of Education) ※for only Chinese students
- (9) Student Registration Certificate (for current students)
- (10) Certificate of Military Service for students who have served in the military
- (11) Summary of Graduation Thesis, etc. (free format, two to three A4-size pages)
- (12) Short Essay (form5)
- (13) Certificate of Japanese Language Proficiency (if any, such as JLPT)
- (14) Certificate of English Language Proficiency (if any, such as TOEIC or TOEFL score results)
- (15) Letter of Acceptance from Prospective Supervisor (form6)

Starting on December, 2013, you can download the specified forms mentioned above in PDF or Word (ZIP compression) at the following [URL](http://www.se.kanazawa-u.ac.jp/ecotechgp/):

<http://www.se.kanazawa-u.ac.jp/ecotechgp/>

- (Note 1) These documents must be written in Japanese or English, or a Japanese or English translation must be attached.
- (Note 2) An original photograph must be attached to the application form (copy is not acceptable).
- (Note 3) Field of Study and Study Plan form is an important part of the selection criteria. The research plan must be described precisely.
- (Note 4) The Official Academic Transcript from your school must contain your entire academic record for all subjects of each year in the university and graduate school. The grade in each class should also be clearly indicated, as well as the grading scale.
- (Note 5) A summary of your graduation thesis must be submitted, including the presented paper, and an abstract, summary or plan of the thesis and graduate research. Note that these will be used as fundamental materials for assessing your academic abilities.

(2) Procedure for Screening Application Materials and Notification of Screening Results

[Screening]

Abilities in the field of specialization, language proficiency, and intentions for the Environment and Eco-technology Special Course will be evaluated based on the submitted documents, a written examination in specialized subjects and an oral exam (interview) via the Internet in Seoul, Shanghai and Beijing. Regarding the location of examination other than China and Korea, considerations will be made according to application. Applicants will be notified details of schedule individually via email on January 24, 2014.

4. Scholarships and Financial Support

(1) Scholarships

• Period and Amount of Scholarship (tentative)

The number of the scholarship students: 8 students (Top 8 students of examination results)

During the two-year period of the regular course from October 2014 to September 2016, students will be provided with 70,000 yen per month as a scholarship.

An additional 30,000 yen per month will be provided to those who satisfy either or both of the following conditions:

- 1) Those who have outstanding proficiency in the Japanese language, and who have

passed Level 2 of the Japanese Language Proficiency Test (JLPT; new N2 level or higher).

- 2) Those who have outstanding proficiency in the English language, and who have a TOEIC score of 650 or higher, or TOEFL-iBT score of 69 or higher, or TOEFL-PBT score of 522 or higher.

*The above is tentative. Now, we are considering increasing the numbers of scholarship students and amounts. The details of decision will be notified around April 2014.

*After the notification of admission, applicant will be expected to submit an admission pledge by a given deadline; this deadline will be after the notification on the details of scholarship.

● Important Notices Regarding Scholarships

Scholarship payments will be suspended if the student takes a leave of absence or is absent from university for a long period of time. The scholarship will not be extended due to the need to repeat a year of study. Scholarship payments will be canceled in the following cases:

- 1) Falsification or misrepresentation is found in the application documents.
- 2) The student is the subject of disciplinary action such as dismissal, exclusion and transfer from Kanazawa University, etc.
- 3) The student is unable to graduate the required coursework within the study period because of inadequate academic grades, suspension, etc.
- 4) The student is unable to acquire a visa status of “College Student” under Article 1-4 of the Immigration Control Law, or there is a change to another visa status.

(2) Travel expenses

For scholarship students, details of travel expenses to Japan and for returning to one's home country have not determined. These decisions will be notified around April 2014.

For Self-financed student, travel expenses to Japan and for returning to one's home country will not be paid.

(3) Tuition and other fees

For scholarship students, examination fee, admission fee, and tuition fee will be waived.

For Self-financed students, examination fee will be waived, but admission fee and tuition fee will not be waived. Students must pay admission fee and tuition fee as follows.

Admission fee: 282,000 JPY (tentative)

Tuition fee (one semester): 267,900 JPY (tentative)

*The above amounts are tentative. If the amounts of admission fee and tuition fee are changed at/after admission, the new fees will be applied.

5. Important Notices for Applicants

- (1) You may not apply to this program as a National Scholarship student concurrently with another Japanese university. If such a duplicate application is discovered, any recommendation/application to enter Kanazawa University by the applicant, as well as by other students from the same university, will be rejected, and the school from which the applicant graduated will be excluded from our list of designated schools.
- (2) As a general rule, lectures/experiments/lab courses at Kanazawa University are conducted in Japanese.
- (3) Before coming to Japan, the successful applicant must study the Japanese language, and be well aware of the climate, culture, customs, and conditions in and around Kanazawa University.
- (4) If the successful applicant's progress in learning the Japanese language is deemed unsatisfactory, the offer of admission may be revoked.
- (5) The successful applicant should try to prepare for about 250,000 Japanese yen as the cost of temporary living expenses (rent of apartment, insurance, etc) when they arrive in Japan. Self-financed students should try to prepare for additional 600,000 Japanese yen as the cost of admission fee and tuition fee. For Self-Financed student, admission fee and tuition fee must be arranged in addition.
- (6) The successful applicant must arrive in Japan by September 30, 2014.
- (7) With regard to housing in Japan, Kanazawa University will make arrangements for the applicant.
- (8) Active or qualified military personnel will not be accepted as a International student under this program.
- (9) If there is anything unclear about the requirements in these application guidelines, or if you have further questions, please contact us by email or fax.



Graduate Students Affairs Section (Environment & Eco-Technology Special Course),
Graduate Students Affairs Section, Science and Engineering Administration
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[Appendix]

Division of Material Chemistry

Name	Position	Research Field	Website URL	E-mail
Hiroshi Hasegawa	Professor	Hydrosphere chemistry, environmental chemistry, remediation technology, toxic metals, rare metals	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=3120	hhiroshi@se.kanazawa-u.ac.jp
Akio Ohta	Associate Professor	Physical chemistry of interfaces, surfactant science, amino acid-type surfactants, surfactants, biomaterials, calorimetry	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=2589	akio-o@se.kanazawa-u.ac.jp
Teruya Maki	Associate Professor	Analytical chemistry, bioaerosols, environmental chemicals phytoplankton	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=3589	makiteru@se.kanazawa-u.ac.jp

Division of Mechanical Science and Engineering

Name	Position	Research Field	Website URL	E-mail
Akio Kodama	Professor	Adsorption, gas separation, desiccant cooling, air purification, low-temperature heat energy	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=2553	akodama@se.kanazawa-u.ac.jp
Osamu Miki	Professor	Marine environment conservation and improvement Material and energy recycle from industrial wastewater	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=4013	mikiosamu@se.kanazawa-u.ac.jp
Yugo Osaka	Assistant Professor	Research from combustion gas to production technologies	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=2562	y-osaka@se.kanazawa-u.ac.jp

Division of Environmental Design

Name	Position	Research Field	Website URL	E-mail
Hirakazu Seki	Professor	Environmental analysis, soil environment engineering, compost engineering	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=3209	seki@se.kanazawa-u.ac.jp
Masami Furuuchi	Professor	Assessment of atmospheric environment, aerosol, environmental nano-particles, air pollution control technology, assessment of occupational exposures	http://www.ce.t.kanazawa-u.ac.jp/mfuru/en/index-E.htm	mfuru@se.kanazawa-u.ac.jp

Ryoko Ikemoto	Professor	Sewage systems, wastewater treatment, biological waste water treatment, water environment, microbes, sulfate reduction	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=2498	rikemoto@se.kanazawa-u.ac.jp
Zhen-jiang Shen	Professor	Inventory control approach, land use simulation, agent-based models	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=2641	shenzhe@se.kanazawa-u.ac.jp
Mitsuhiko Hata	Associate Professor	Aerosol, biomass combustion, source countermeasure technologies	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=3434	hata@se.kanazawa-u.ac.jp
Ryo Honda	Assistant Professor	Environmental Process Engineering, Biomass Energy, Environmental Microbiology, Membrane Process, Global Warming Mitigation Technology	http://www.ce.t.kanazawa-u.ac.jp/~honda/	rhonda@se.kanazawa-u.ac.jp

Division of Natural System

Name	Position	Research Field	Website URL	E-mail
Kenji Takahashi	Professor	Biomass Refinery, Artificial photosynthesis, chemical reaction processes using ionic liquids, supercritical fluids, plasma and microwave	http://ktlabo.w3.kanazawa-u.ac.jp/	ktkenji@staff.kanazawa-u.ac.jp
Takafumi Seto	Professor	Nano-particles, aerosols	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=2194	t.seto@staff.kanazawa-u.ac.jp
Yoshio Otani	Professor	Aerosol technology, nano-particles, air filtration	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=2404	otani@se.kanazawa-u.ac.jp
Fumihisa Kobayashi	Associate Professor	Bioprocesses, bioremediation, bioaerosols, biomass	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=2933	fumihisa@se.kanazawa-u.ac.jp
Mikio Kumita	Associate Professor	Energy Conversion, Sorption Heat Pump/Chiller, Biomass Pyrolysis	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=2331	kumita@se.kanazawa-u.ac.jp
Noboru Takiguchi	Associate Professor	Bioprocesses, bioinformatics	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=3327	tackey@se.kanazawa-u.ac.jp

2014 Asian universities designated by Kanazawa University

Country and City	Name of University
Beijing, China	Beijing Normal University
Beijing, China	Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences
Beijing, China	Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
Beijing, China	Tsinghua University
Dalian, China	Dalian University of Technology
Shanghai, China	East China University of Science and Technology
Shanghai, China	Tongji University
Shanghai, China	Shanghai Jiaotong University
Shanghai, China	Fudan University
Zhejiang, China	Zhejiang University
Zhejiang, China	Zhejiang University of Technology
Xian, China	Xian Jiaotong University
Gyeonggi, Korea	Dankook University
Seoul, Korea	Hanyang University
Gyeonggi, Korea	Kyung Hee University
Seoul, Korea	Seoul National University
Seoul, Korea	Sungkyunkwan University