



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 2013 (for Chinese and Korean Applicants)

In April 2011, the Graduate School of Natural Science and Technology of Kanazawa University established the Japan-China-Korea Environment & Eco-Technical Special Course. The Course crosses over some different specializations (division of material chemistry (applied chemistry course), division of mechanical science and engineering (environment and human related mechanical systems course), division of environmental design, and division of natural system (chemical engineering course)) in the Master's Level Section of the Graduate School of Natural Science and Technology. The purpose of the Course is to educate students as ecological engineers, i.e., engineers who possess the relevant knowledge and skills in environmental technologies that will support sustainable social development across the national borders of Japan, China and Korea, and to develop talented individuals who will contribute to managing resource recycling and reducing the environmental impacts of manufacturing companies in East Asia.

Information for Chinese and Korean students who would like to apply for the Course, which will begin in October 2013, is given below.

1. Application/Selection Schedule

Date/Time Period	Procedure
November 5 (Monday) to November 22 (Thursday), 2012	Application period
November 28 (Wednesday), 2012	Initial screening (based on submitted documents), notification of results
Mid-December, 2012 (tentative)	Second screening (based on written and oral examinations)
Late January, 2013 (tentative)	Notification of results of second screening and passing decision
October 1, 2013	Admission

2. Application Qualifications and Conditions

- **Number of Students to Be Enrolled**

A total of 8 Chinese and Korean students (separate procedures will be followed for the enrollment of 4 Japanese students).

- **Field of Recruitment**

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

- **Selection of Field and Prior Consultation with a Professor at Kanazawa University**

Please select your desired field of specialization (division of material chemistry (applied chemistry course), division of mechanical science and engineering (environment and human related mechanical systems course), division of environmental design, and division of natural system (chemical engineering course)) at Kanazawa University, and your desired supervising professor before the time of application.

Professors who can accept Chinese and Korean 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 supervising professor directly via email or other means to discuss the possibility of studying under their guidance. Note that an applicant will not pass the initial screening based on submitted documents if he/she has not undertaken this prior consultation.

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

- **Academic Background**

An applicant must have graduated, or will graduate, from a four-year university (or an undergraduate department thereof) designated by Kanazawa University by September 30, 2013. Applicants must also be recommended by an official at the department level or higher (e.g., head of a department) of the university from which he/she graduated, or will graduate. (Note: Universities designated by Kanazawa University are listed at the end of this brochure.)

- **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, 1987 or later.

However, special consideration may be given to Korean 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 (Initial Screening)

(1) Application procedure

- **Submission of application form**

Applications should be submitted by international Express Mail Service (EMS) through the international studies office of a designated school. The application form must be postmarked and arrive at the specified address by the deadline indicated.

Application period: November 5, 2012 (Monday) to November 22, 2012 (Thursday)

Address: Graduate Affairs Section (Environment & Eco-Technical Special Course),
Student Affairs Division, Science and Engineering Administration Department,
Kanazawa University, Kakuma-machi, Kanazawa City, Ishikawa, JAPAN 920-1192

Application form

- (1) Application checklist (specified form)
- (2) Application form (specified form)
- (3) Field of Study and Study Plan form (specified form)
- (4) Statement of purpose (specified form)
- (5) Letter of recommendation from a designated school (must be a recommendation by the head of a department (dean, etc.) or higher level of the designated school).
- (6) Official Academic Transcript from a designated university
- (7) Certificate of Graduation or a Certificate Letter Stating the Expected Date of Graduation from a designated school
- (8) Student Registration Certificate (for current students)
- (9) Certificate of Military Service for Korean students who have served in the military and who exceed the age limit.
- (10) Summary of Graduation Thesis, etc. (free format, two to three A4-size pages)
- (11) Short Essay (about a topic to be assigned on the specified form)
- (12) Certificate of Japanese Language Proficiency (if any, such as JLPT)
- (13) Certificate of English Language Proficiency (if any, such as TOEIC or TOEFL score results)

At beginning of October, 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/>

- (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 attached to the application form (copy 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 a designated 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

[Initial Screening]

Abilities in the field of specialization, language proficiency, and intentions for the Environment and Ecology Engineering Special Course will be evaluated based on the submitted documents.

Notification of the results of the initial screening will be sent to the applicant and to the international studies offices of the designated universities via email on Wednesday, November 28, 2012.

[Secondary Screening]

Applicants who pass the initial screening will be invited to take a written examination in specialized subjects and an oral exam (interview) via the Internet in Seoul, Shanghai and Beijing. Applicants who pass the initial screening will be notified via email of schedule details.

4. Scholarships and Financial Support

(1) Scholarships

● Period and Amount of Scholarship (planned)

During the two-year period of the regular course from October 2013 to September 2015, 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 TOEC score of 650 or higher, or TOEFL-iBT score of 69 or higher, or TOEFL-PBT score of 522 or higher.

● 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 from Kanazawa University, etc.
- 3) The student is unable to complete 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.
- 5) The student receives another scholarship (except for scholarships designated for research expenses).

(2) Travel expenses

Travel expenses to Japan and for returning to one’s home country will not be paid.

(3) Tuition and other fees

Examination fees, admission fees, and tuition fee will be waived.

6. 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.
- (6) The successful applicant must arrive in Japan by September 30, 2013.
- (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 foreign students 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.



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920-1192

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

E-mail: asiainfo@t.kanazawa-u.ac.jp

[Appendix]

Division of material chemistry

Name	Position	Research Field	Website URL
Akio Ohta	Associate Professor	Physical chemistry of interfaces, surfactant science, amino acid-type surfactants, surfactants, biomaterials, calorimetry	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=573
Hiroshi Hasegawa	Professor	Hydrosphere chemistry, environmental chemistry, remediation technology utilizing the natural cycle, rare metals	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=581
Teruya Maki	Associate Professor	Analytical chemistry, bioaerosols, environmental chemicals phytoplankton	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=532

Division of mechanical science and engineering

Name	Position	Research Field	Website URL
Akio Kodama	Professor	Adsorption, gas separation desiccant cooling, air purification, low-temperature heat energy	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=316
Osamu Miki	Professor	Environmental conversation, Marine Environment Improvement, Recycle, Water recycle	http://ridb.kanazawa-u.ac.jp/public/detail.php?id=4013&page=3&gakusi_cod=202
Yugo Osaka	Assistant Professor	Research from combustion gas to production technologies	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=1127

Division of environmental design

Name	Position	Research Field	Website URL
Ryoko Ikemoto	Professor	Sewage systems, wastewater treatment, biological waste water treatment, water environment, microbes, sulfate reduction	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=541
Hirakazu Seki	Professor	Environmental analysis, soil environment engineering, compost engineering	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=462
Shen Zhen-jiang	Professor	Inventory control approach, land use simulation, agent-based models	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=470
Mitsuhiko Hata	Assistant Professor	Aerosol, biomass combustion, source countermeasure technologies	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=319
Masami Furuuchi	Professor	Assessment of atmospheric environment, aerosol, nano-particles, air pollution control technology, assessment of occupational exposures	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=819
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/

Division of natural system

Name	Position	Research Field	Website URL
Yoshio Otani	Professor	Aerosol technology, nano-particles, air filtration	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=277
Mikio Kumita	Associate Professor	Heat pump energy transport, development of adsorption refrigerators, biomass	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=535
Fumihisa Kobayashi	Associate Professor	Bioprocesses, bioremediation, bioaerosols, biomass	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=260
Takafumi Seto	Associate Professor	Nano-particles, aerosols	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=945
Kenji Takahashi	Associate Professor	Biomass Refinery, Artificial photosynthesis, chemical reaction processes using ionic liquids, supercritical fluids, plasma and microwave	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=304
Noboru Takiguchi	Associate Professor	Bioprocesses, bioinformatics	http://kurt.kanazawa-u.ac.jp/souran_ku/info_e.php?teacher_id=1044

2013 Environmental Education in the Japan-China-Korea Environment & Eco-Technical Special Course

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