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

"Environmental and Energy Technologies International Course"

Applicant Guidelines for International Students (October 2023 or April 2024)

Application Outline for Admission

Environmental and energy engineers who can contribute to the global society are expected to be equipped with not only the advanced knowledge and skills of environmental and energy engineering but also the ability to propose and design the skills and processes that are in harmony with the regional society and the understanding of regional cultures and history. This course will train individuals who can contribute to the global society by providing education on (1) advanced knowledge and skills on environmental and energy engineering, (2) advanced communications skills for collaborating with engineers from other nations and to understand the historical and cultural background of the regional residents who will be the users of the environmental and energy technologies, and (3) the leadership to propose the appropriate skills and processes for each regional circumstances surrounding the environmental problems that occur across national borders. Moreover, the course will nurture individuals who will act as a bridge with Japan at the site of research and technological development in the fields of environment and energy and who will contribute to the sustainable development of the society through cooperation across national borders.

We hereby call for application of the international students who plan to apply for October 2023 or April 2024 admission as follows.

1. SCHEDULE

Admission in October 2023

Date	**Details**
September 4 ～ September 7, 2023 JST 12:00	Application Period
Middle of September 2023 (tentative)	Notification of Results
October 1, 2023	Admission

Admission in April 2024

Date	**Details**
March 4 ～March 7, 2024 JST 12:00	Application Period
Middle of March 2024 (tentative)	Notification of Results
April 1, 2024	Admission

2. QUALIFICATIONS

Several successful applicants among those who have already been admitted to enroll in October of 2023 or April of 2024.
Prior to application, applicants must contact their supervisors and discuss their application for this program.

●**The number of students to be admitted**
A few students

●**Divisions offered**
1) Division of Material Chemistry (Applied Chemistry Course)
2) Division of Mechanical Science and Engineering
3) Division of Frontier Engineering
4) Division of Electrical, Information and Communication Engineering
5) Division of Geosciences and Civil Engineering (Course in Civil Engineering)

●**Field of Study**
Environmental engineering fields (atmospheric environment, water environment, soil environment, waste management, etc.) and energy technology

3. APPLICATION PROCEDURES AND SELECTION

(1) Application Procedure
●Submit documents
Applicants must submit the following documents to the Admission Section, Student Affairs Division, Science and Engineering Administration Department, Kanazawa University by the deadline.

Application Period and Place of submission

Application Period
Admission in October 2023 : September 4, 2023 (Mon) ~ September 7, 2023 (Thu)
Admission in April 2024 : March 4 , 2024 (Mon) ~ March 7 , 2024 (Thu)
Location: Natural Science and Technology Main Hall G2 floor,
Student Affairs Division's Office.
Email address: s-nyusi@adm.kanazawa-u.ac.jp
Website: http://www.nst.kanazawa-u.ac.jp/etic/

Required Documents

1) Application Form
2) Field of Study and Study plan form
3) Statement of purpose

*Above documents must be used prescribed forms.

*Above documents must be written in either Japanese or English. A document written in any other language must accompany a Japanese or English translation.

*Photographs to be pasted on the application must be of upper body, uncapped, full-faced, and solid-color background.

*For abstracts of the theses, abstracts of the graduation thesis and presented papers will suffice. Please note that these abstracts will be used as basic data for evaluation of the applicant's academic ability.

(2) Examination

1. Screening Method
   Selection will be carried out while taking account of a comprehensive set of factors, including the submitted documents.

2. Announcement of Results
   Admission in October 2023 : Middle of September 2023 (tentative)
   Admission in April 2024 : Middle of March 2024 (tentative)
   *The results will be notified by e-mail from supervisors.

4. NOTES

Additional details of this program are available from the contact information below.

金沢大学
KANAZAWA UNIVERSITY

Admission Section, Student Affairs Division,
Science and Engineering Administration Department,
Kanazawa University
Kakuma, Kanazawa, Ishikawa, JAPAN 920-1192
Phone: +81-76-234-6823 Fax: +81-76-234-6844
http://www.nst.kanazawa-u.ac.jp/etic/
E-mail: s-nyusi@adm.kanazawa-u.ac.jp

Environmental and Energy Technologies International Course

Instructors and Research

Division of Material Chemistry

Name	Position	Research Field
Hiroshi Hasegawa	Professor	Hydrosphere chemistry, environmental chemistry, remediation technology, toxic metals, rare metals
Tetsuya Taima	Professor	Organic photovoltaic cell, perovskite solar cell, molecular orientaiton control
Akio Ohta	Associate Professor	Physical chemistry of interfaces, surfactant science, amino acid-type surfactants, surfactants, biomaterials, calorimetry
Takahiro Yamaguchi	Associate Professor	Electrochemistry, Modified electrode, Oxygen reduction reaction
Asami Mashio	Assistant Professor	Marine chemistry, Environmental chemistry, Analytical chemistry
SHAHIDUZZAMAN MD	Assistant Professor	Fabrication of Perovskite Solar Cells
WONG KUO HONG	Assistant Professor	Biogeochemical cycles,Chemical oceanography,Aquatic Analytical Chemistry,Trace metals,Microorganism
ASAKAWA, Hitoshi	Associate Professor	Atomic force microscopy, Solid-liquid interface, Intermolecular interactions
NAKANO, Masahiro	Assistant Professor	photovoltaic devices, self-assembled monolayer, organic spintronic materials

Division of Mechanical Science and Engineering

Name	Position	Research Field
Takahiro KIWATA	Professor	Fluid Engineering
Takaaki Kono	Associate Professor	Wind Turbine Engineering, Computational Fluid Dynamics, Wind Engineering
Hiroshi Enomoto	Associate Professor	Combustion, Internal combustion engine, Biomass usage
Yoshikazu Teraoka	Associate Professor	thermal engineering, heat transfer
Akio Kodama	Professor	Adsorption, gas separation, desiccant cooling, air purification, low-temperature heat energy
Takuya Tsujiguchi	Associate Professor	Fuel cell, Desiccant Cooling system, Heat and Mass Transport analysis
Yugo Osaka	Associate Professor	Thermal battery, Heat/Electricity integrated energy management system, Exhaust gas purification
Masashi Haruki	Professor	Heat storage, New energy device and system, Controlling thermal conductivity, Thermophysical property, Supercritical fluid technology

Division of Frontier Engineering

Name	Position	Research Field
Takafumi Seto	Professor	Nano-particles, aerosols
Hirohisa Uchida	Professor	High pressure/Supercritical fluid technology, Advanced materials production, Crystallization, Thermodynamics
Mikio Kumita	Professor	Adsorption, Sorption cooling, Heat and mass transfer, Reaction engineering
Noboru Takiguchi	Associate Professor	Bioprocesses, bioinformatics
Yayoi Inomata	Associate Professor	Atmospheric Environment Sicence, Meteorology, Geochemistry

Division of Electrical, Information and Communication Engineering

Name	Position	Research Field
Tatsuo Ishijima	Professor	Plasma Application
Yasunori Tanaka	Professor	Power engineering/Power conversion/Electric machinery、Plasma science
Takeo MARUYAMA	Associate Professor	Optoelectronics, Silicon Photonics, Optical Wireless Power Transmission, Semiconductor Devices
Yusuke NAKANO	Assistant Professor	Electrical Discharge, Electrical Insulation, Current Interruption, Power System

Division of Geosciences and Civil Engineering

Name	Position	Research Field
Zhen-jiang Shen	Professor	Inventory and total amount control approach for urban environment management simulation, agent-based models
Mitsuhiko Hata	Professor	Aerosol, biomass combustion, source countermeasure technologies
Ryo Honda	Professor	Environmental process engineering, Environmental microbiology, Water treatment process
Masashi Ohashi	Professor	Materials physics and chemistry, Thermophysical property, Functional materials, Low temperature, Magnetism
Kenji Taniguchi	Professor	Numerical weather prediction, River runoff simulatoin, Impact assessment of global warming
Tatsuya Nishino	Professor	Architectural Planning, Living Environment for the Elderly, Restructuring of Public Facilities
Seiya Hanamoto	Associate Professor	Environmental chemistry
Norihisa Matsuura	Associate Professor	Water environmental engineering, wastewater treatment, eco-friendly technology, microbial community analysis
Hiroe Hara-Yamamura	Assistant Professor	Water environment engineering,Wastewater reclamation, Emerging contaminants
Yuri Nishiwaki-Akine	Associate Professor	biomass conversion, surface chemistry
TENG, Xiao	Assistant Professor	National land use planning, Smart city and zero energy buildings