

APPLICATION GUIDELINES
for the Double-Degree Master's Program
with Shenzhen International Graduate School, Tsinghua University
at
Graduate School of Natural Science and Technology Kanazawa University
(October 2024 enrollment)

This Special Selection will be held based on “Agreement on the Double-Degree Master's Program between Kanazawa University, Japan and Tsinghua University, China”.

1. Program Description

Graduate School of Natural Science and Technology, Kanazawa University calls for applicants to *Double-Degree Master's Program with Shenzhen International Graduate School, Tsinghua University (DDP-Tsinghua)*. This application call is open for qualified applicants who is expected or applying to enroll in Double-Degree Master's Program in Resources and Environment at Shenzhen International Graduate School, Tsinghua University as home graduate school. A student enrolled in the *DDP-Tsinghua* program is expected to stay and study at Kanazawa University at least for total 10 months, in addition to the study in Shenzhen International Graduate School, Tsinghua University. The master's theses to be submitted to each university must have a different content from each other, although allowed to include complementary or interrelated portions. Visit the website of *DDP-Tsinghua* program for more details:

<http://www.nst.kanazawa-u.ac.jp/etic/english/>

2. Departmental Division

Applicants to *DDP-Tsinghua* program can apply to enroll in:

- Applied Chemistry Course in the Division of Material Chemistry,
- Division of Electrical, Information and Communication Engineering
- Civil Engineering Course in the Division of Geosciences and Civil Engineering.

Faculty members and research fields accepting *DDP-Tsinghua* students are listed in Appendix. Applicants should contact prospective academic supervisor(s) in advance based on their research interest. The Letter of Acceptance from the prospective academic supervisor is required in application. (See also 5.2 Application Documents.)

3. Admission Limits

Maximum 10 students will be admitted.

Admissions to the corresponding DDP programs of both Tsinghua University and Kanazawa University are required to enroll this program. Admission to Kanazawa University will be cancelled if you are not admitted to Double-Degree Master's Program in Resources and Environment at Shenzhen International Graduate School, Tsinghua University.

4. Requirements of Applicants

Applicants to *DDP-Tsinghua* program must meet the following requirements:

- (1) Completion of 16-years qualified education or will have completed it by September 30, 2024.
- (2) Admission or concurrent application to enroll the Double-Degree Master's Program in Resources and Environment at Shenzhen International Graduate School, Tsinghua University before October 1, 2024.

5. Application and Examination

5.1. Schedule

Application Period	June 3 – June 14, 2024
Notification of oral examination schedule	Middle to late of June, 2024 (tentative)
Oral Examination	Late of June to Early July, 2024 (tentative)
Notification of acceptance/failure	Early August, 2024(tentative)
Enrollment	October 1, 2024

5.2. Application Documents

Applicants should submit the following application documents. All application documents must be written in either Japanese or English. Documents (1, 2, 3, 8, 10) must be prepared using the document format provided with this application guidelines. If certificate documents (4, 5, 6) are not available in Japanese or English, they must accompany a Japanese or English translation.

- (1) Application Checklist *
- (2) Application Form *
- (3) Statement of purpose *
- (4) Academic transcript of the last university attended
- (5) Graduation certificate or degree certificate of the most recent university (or an attested document certifying the expected graduation)
- (6) Students Registration Certificate (*if the applicant currently belongs to a school*)
- (7) Summary of Graduation Thesis or Project. (*free format, within 2-3 pages on A4 papers*)
- (8) Field of Study and Research Proposal *
- (9) The original score of English language proficiency test (such as TOEIC, TOEFL-iBT or IELTS) within 2 years before application.
- (10) Letter of Acceptance from Prospective Supervisor * (*An applicant should submit a PDF copy. The original letter will be submitted by your prospective supervisor.*)
- (11) Photocopy of a passport, birth certificate or certificate of citizenship

Notes1: * Use the format provided with this application guidelines

Notes2: As for documents (4) and (5) above, please also submit their originals (certified copies are also acceptable) by post to arrive at the Admission Affairs Section by June 15, 2024.

Important Notes:

- ✧ In advance of application, the applicant should contact the prospective academic supervisor(s) to request Letter of Acceptance. See Appendix for list of faculty members accepting *DDP-Tsinghua* students.
- ✧ Photographs (4.5×3.5cm) to be pasted on the application must be taken within the past 6 months. It must be taken upper body, uncapped, full-faced, and solid-color background. Name and nationality must be indicated on the back (in case it comes unstuck).
- ✧ In Field of Study and Research Proposal form, applicants should provide clear and concrete description on the objectives and methodology of their prospective research.
- ✧ In the academic transcripts of the most recent university, the grades of all subjects earned by the applicant must be indicated with the applied grade scale. (A degree certificate or a graduation certificate indicating only the ranking of the applicant at graduation will not substitute for academic transcripts.)
- ✧ For Summary of Graduation Thesis or Project, you may submit abstract of the graduation thesis, or academic publications authored by you.
- ✧ Applications will not be accepted if any of the documents are incomplete, incorrect, or not supported

by evidence, or if they are not received by the specified deadline. Once submitted, documents cannot be modified and will not be returned.

- ✧ If any information of the documents is later found to be false, admission may be canceled at any time after enrollment.

5.3. Submission

Applicants must convert all the application documents into PDF format and submit by e-mail attachment to the DDP-Tsinghua Program, Graduate School of Natural Science and Technology, Kanazawa University and your prospective academic supervisor before the application period ends. If the size of the application document exceeds size limit of email, please split it into several files and send them separately.

Email address for submission: liaisonoffice-thu@se.kanazawa-u.ac.jp
(specify the subject as “Application to KU (Oct 2024)” in the email subject)

5.4. Examination

Qualified applicants will be selected by reviewing submitted application documents and oral examination. The oral examination is conducted in English language by using an online video meeting system. The applicant should prepare necessary environment for the oral examination, i.e. a quiet room with broadband internet connection, a personal computer equipped with webcam, earphone or headset with microphone. The schedule of oral examination will be notified by email from your prospective academic supervisor.

5.5. Notification of Acceptance/Failure

The decision of acceptance or failure will be notified to all applicants by e-mail.

Enrollment to Kanazawa University will not be allowed unless the applicant is granted admission to Double-Degree Master's Program in Resources and Environment, Shenzhen International Graduate School, Tsinghua University as well.

6. Notes

- ✧ Personal information provided in the application documents will only be used for the admission process and education purposes after enrollment.
- ✧ Applicants are expected to learn and understand the geography, climate, customs and traditions of Japan as well as the rules of Kanazawa University. Also, although the thesis work can be carried out in English, it is recommended to get accustomed to the Japanese language for the essentials of daily life.

7. Contact

For further information, please contact the below via e-mail, or airmail:

Liaison office of Double Degree Program with Shenzhen International Graduate School, Tsinghua University
at Graduate School of Natural Science and Technology, Kanazawa University
Institute of Science and Engineering, Kanazawa University
Kakuma-machi, Kanazawa 920-1192, Japan

E-mail: liaisonoffice-thu@se.kanazawa-u.ac.jp (include “[DDP-Tsinghua]” in the email subject)

Appendix

List of Faculty Members Accepting Graduate Students of the Double-Degree Master's Program with Shenzhen International Graduate School, Tsinghua University.

In advance of application, the applicant should contact the prospective academic supervisor(s) listed in this Appendix to request Letter of Acceptance.

Division of Material Chemistry

Research Field	Name	Position	Mail	Research subject keywords
Physical Chemistry	ASAKAWA, Hitoshi	Associate Professor	hi_asa@staff.kanazawa-u.ac.jp	Atomic force microscopy, Solid-liquid interface, Intermolecular interactions
	OHTA, Akio	Associate Professor	akio-o@se.kanazawa-u.ac.jp	Physical chemistry of interfaces, Surfactant science, Amino acid-type surfactants, Surfactants, Biomaterials, Calorimetry
Analytical and Environmental Chemistry	HASEGAWA, Hiroshi	Professor	hhiroshi@se.kanazawa-u.ac.jp	Hydrosphere chemistry, Environmental chemistry, Remediation technology, Toxic metals, Rare metals
	MASHIO, Asami	Assistant Professor	a-mashio@se.kanazawa-u.ac.jp	Marine chemistry, Environmental chemistry, Analytical chemistry
	WONG, Kuo Hong	Assistant Professor	wong@se.kanazawa-u.ac.jp	Biogeochemical cycles, Chemical oceanography, Aquatic Analytical Chemistry, Trace metals, Microorganism
Function Material Chemistry	TAIMA, Tetsuya	Professor	taima@se.kanazawa-u.ac.jp	Organic photovoltaic cell, Perovskite solar cell, Molecular orientation control
	NAKANO, Masahiro	Assistant Professor	masahiro-nakano@se.kanazawa-u.ac.jp	Photovoltaic devices, Self-assembled monolayer, Organic spintronic
	SHAHIDUZZAMAN MD	Assistant Professor	shahiduzzaman@se.kanazawa-u.ac.jp	Fabrication of Perovskite Solar Cells
Function Development Chemistry	YAMAGUCHI, Takahiro	Associate Professor	t-yamagu@se.kanazawa-u.ac.jp	Electrochemistry, Modified electrode, Oxygen reduction reaction

Division of Electrical, Information and Communication Engineering

Research Field	Name	Position	Mail	Research subject keywords
High-speed Electronics	MARUYAMA, Takeo	Associate Professor	maruyama@ec.t.kanazawa-u.ac.jp	Optoelectronics, Silicon Photonics, Optical Wireless Power Transmission, Semiconductor Devices
Fundamentals and Applications of Plasmas	ISHIJIMA, Tatsuo	Professor	ishijima@ec.t.kanazawa-u.ac.jp	Plasma Application
	TANAKA, Yasunori	Professor	tanaka@ec.t.kanazawa-u.ac.jp	Power engineering/Power conversion/Electric machinery, Plasma science
	NAKANO, Yusuke	Assistant Professor	nakano@se.kanazawa-u.ac.jp	Electrical Discharge, Electrical Insulation, Current Interruption, Power System

Division of Geosciences and Civil Engineering

Research Field	Name	Position	Mail	Research subject keywords
Hydraulic Engineering	TANIGUCHI, Kenji	Professor	taniguti@se.kanazawa-u.ac.jp	Numerical weather prediction, River runoff simulation, Impact assessment of global warming
Urban Planning and Planning support system	ZHEN-JIANG, Shen	Professor	shenzhe@se.kanazawa-u.ac.jp	Inventory and total amount control approach for urban environment management simulation, agent-based models
	Xiao Teng	Assistant Professor	riendyteng@se.kanazawa-u.ac.jp	
Architectural Planning and Design	NISHINO, Tatsuya	Professor	tan378@se.kanazawa-u.ac.jp	Architectural Planning, Living Environment for the Elderly, Restructuring of Public Facilities
Environmental Materials	OHASHI, Masashi	Professor	ohashi@se.kanazawa-u.ac.jp	Materials physics and chemistry, Thermophysical property, Functional materials, Low temperature, Magnetism
Atmospheric Environment Engineering	HATA, Mitsuhiro	Professor	hata@se.kanazawa-u.ac.jp	Aerosol, biomass combustion, source countermeasure technologies
Water Biotechnology and Microbiology	MATSUURA, Norihisa	Associate Professor	matsuura@se.kanazawa-u.ac.jp	Water environmental engineering, wastewater treatment, eco-friendly technology, microbial community analysis
Environmental Risk Control Engineering	HONDA, Ryo	Professor	rhonda@se.kanazawa-u.ac.jp	Environmental process engineering, Environmental microbiology, Water treatment process
	HARA-YAMAMURA, Hiroe	Assistant Professor	hirocyh@se.kanazawa-u.ac.jp	Water environment engineering, Wastewater reclamation, Emerging contaminants
Environmental Preservation	HANAMOTO, Seiya	Associate Professor	hanamoto64@staff.kanazawa-u.ac.jp	Environmental chemistry
Environmental science and biomass utilization	NISHIWAKI-AKINE, Yuri	Assistant Professor	nishiwaki@staff.kanazawa-u.ac.jp	Biomass conversion, surface chemistry