
APPLICATION PROCEDURE FOR ADMISSION
TO THE GRADUATE SCHOOL

DOCTORAL COURSE OF
MURORAN INSTITUTE OF TECHNOLOGY

FOR
**Computer science based cross-disciplinary innovation
program for international professionals
(CS-based cross-disciplinary program)**

DATE OF ENTRANCE: April, 2025



Office of Admissions Strategic and Action Plan,
Muroran Institute of Technology

27-1 Mizumoto-cho, Muroran, Hokkaido, JAPAN 050-8585

E-mail nyushi@muroran-it.ac.jp

<https://muroran-it.ac.jp/>

< To Applicants >

- ◎ **Before submitting your application, you must contact your desired supervisor and thoroughly discuss your research theme with them. This can be done online via Zoom or a similar platform, by phone, or in a face-to-face meeting. Use the link below to find a list of faculty members in the Doctoral Course [DC] and their research fields.**

https://muroan-it.ac.jp/daigakuin/gsee/guidelines_gs/

- ◎ Muroran Institute of Technology has established the “Muroran Institute of Technology Security Export Control Regulations” in accordance with the “Foreign Exchange and Foreign Trade Act”, and rigorously screens Foreign students.

Foreign applicants who fall under any of the conditions set out in said regulations may be unable to enter their desired course or program.

- ◎ All dates and times stated in this guideline are based on Japan Standard Time

On the Handling of Personal Information

Muroran Institute of Technology (Muroran IT) complies with the Act on the Protection of Personal Information and other applicable laws and attempts to protect your personal information in accordance with Muroran IT's Personal Information Management.

Personal information submitted to Muroran IT in the form of application documents will be used for selecting applicants for admission and as resources for reviewing the method of selecting applicants for admission. For admitted students, personal information will be used for registrar work (student registry, learning assistance, etc.) and student support (tuition exemption, scholarship, etc.).

Admission Policy

The basic philosophy of Muroran Institute of Technology is "to provide comprehensive science and engineering education, taking advantage of the environment of Muroran, a city rich in nature and manufacturing, to nurture future engineers and scientists, to develop creative science and technology research in harmony with people, society and nature, to serve as a center of knowledge in the local and international communities, and to contribute to the development of the society.

Based on this philosophy, educational goals, human resource development vision, degree awarding policy (diploma policy), and curriculum policy, in order to develop human resources equipped "expertise and interdisciplinary skills," "resilience and comprehensive perspective," and "sociality and communication skills" stated the development vision of the Master's and Doctoral Programs, the following individuals are sought, respectively.

(1) Graduate School of Engineering

1) Master's Program

1. Who have basic expertise equivalent to a bachelor's degree in science and technology
2. Who have a desire to acquire knowledge and information/data processing skills beyond their field of specialization in addition to their advanced expertise
3. Who have a desire to discover and solve diverse problems
4. Who have acquired a rich cultural background and are willing to collaborate with and contribute to the community and society at large.

2) Doctoral program

1. Who have expertise equivalent to a master's degree in science and technology
2. Who are willing to acquire broad knowledge beyond their specialized fields and practical research skills including information and data processing technologies, in addition to deepened and advanced specialized knowledge.
3. Who are willing to work on solutions of complex and difficult issues with comprehensive perspective.
4. Who have acquired a rich culture and advanced communication skills, and who are willing to collaborate with and contribute to the international and local communities at large.

(2) Student profile required for each Division in the Master's Program

1) Division of Sustainable and Environmental Engineering

In order to build a sustainable society in harmony with the environment in light of changes in the natural and social environment, the applicant should specialize in one of the following environment-related fields, have a desire to acquire knowledge and abilities beyond his/her field of specialization, and have the basic background to achieve these goals.

Research and development related to the creation of useful substances that make advanced use of chemical reactions and biological functions, the construction of systems that apply those substances and related phenomena, and the establishment of technologies to improve the living environment.

Research and development related to the construction, maintenance, and preservation of social infrastructure, including buildings and underground spaces, and disaster prevention

Research and development of planning, design, and construction for the creation of cities and residential spaces where people can live comfortably and safely

2) Division of Production Systems Engineering

By promoting and integrating fundamental research in the fields of aerospace aircraft and next-generation robots, which are the fruits of systems technology integration, the mechanical engineering fields that support these, and the physical properties and materials science fields required for the creation and development of advanced materials, we will create systems and develop elemental technologies that transcend conventional frameworks, thereby addressing environmental issues and Have the desire and basic knowledge to contribute to solving increasingly complex problems, such as energy issues.

3) Division of Information and Electronic Engineering

Systematic knowledge and expertise in the fields of information engineering and electrical and electronic engineering related to information systems and mathematical data science, electrical energy, communication systems, electronic devices, optical and quantum measurement technology, and control technology, as well as communication skills, teamwork skills, ethics, and self-learning abilities. And have the motivation and basic knowledge to carry out research and development in response to the needs of the society.

Motivation and basic knowledge to solve various social problems by making full use of advanced knowledge in information science such as data science, AI, and computer science, and specialized skills in engineering fields.

(3) Division of Engineering

The Division seeks a wide range of students who meet any of the following criteria

Who have the desire and ability to tackle complex issues in a wide range of environmental and creative engineering fields to build a sustainable society in harmony with the environment, taking into account changes in the natural and social environment.

Who have the desire and ability to tackle complex issues in the research and development of aerospace aircraft and next-generation robots that make full use of advanced systems technology, as well as in the advanced mechanical engineering and physical properties and materials science fields that support such research and development.

Who have the desire and ability to tackle complex issues in the fields of information engineering and electrical and electronic engineering related to that intelligence and information systems, electrical and telecommunications systems, and electronic device measurement, which create high-value social and engineering functions.

(4) Basic policy of screening

The Master's and Doctoral Programs of the Graduate School of Engineering will implement various admission methods in order to seek diverse and individualistic students, placing emphasis on the following in the selection of applicants.

1) Master's Program

1. have basic knowledge equivalent to a bachelor's degree in a specialized field
2. have a willingness to acquire advanced specialized knowledge and to work on finding and solving diverse problems
3. basic ability to gather and disseminate information in English.

2) Doctoral Program

1. have knowledge equivalent to a master's degree in a specialized field
2. have a desire to acquire in-depth and advanced specialized knowledge and to discover and solve diverse and complex problems.
3. ability to collect and disseminate information in English, as well as communication skills to collaborate widely.

Computer science based cross-disciplinary innovation program for international professionals (CS-based cross-disciplinary program)

This program aims to nurture the next generation of “innovators” who can lead a smart society in the real world where globalization is advancing and conducts cross-disciplinary research and education based on computer science.

1. Number of Admissions

Division of Engineering

Course of Advanced Sustainable and Environmental Engineering

Course of Advanced Production Systems Engineering

Course of Advanced Information and Electronic Engineering

Number of Admissions	
Selection A	Selection B
a few	a few

Notes : Selection A is for those who have a nationality other than Japanese, and live in a country other than Japan.

Selection B is for residents in Japan.

2. Admission period

The admission period for this examination is April 2025.

3. Eligibility for Application

For those to satisfy one of the following conditions.

- 1) The applicant must have a master’s or professional degree in Japan or be a candidate for graduation with a master’s or professional degree in Japan by March 2025.
- 2) The applicant must have a master’s or professional degree other than Japan or be a candidate for graduation with a master’s or professional degree other than Japan by March 2025.
- 3) The applicant must have a master’s or professional degree with earned credits from a foreign correspondence course or be a candidate for graduation with a master’s or professional degree in the same manner by March 2025.
- 4) The applicant must have a master’s or professional degree from a foreign educational institution with a graduate degree specified by the Minister of Education, Culture, Sports, Science and Technology – Japan, and be a candidate for graduation with a master’s or professional degree from the same institution by March 2025.
- 5) The applicant who completed the course at the United Nations University, which was established in accordance with the United Nations General Assembly resolution of December 11, 1972, as set forth in Paragraph 2, Article 1 of the Act on Special Measures Incidental to Enforcement of the Agreement between the United Nations and Japan (Act No. 72 of 1976) regarding the Headquarters of the United Nations University, and were awarded or are expected to be awarded a degree equivalent to a master’s degree by March 2025.
- 6) The applicant who completed a course at a school in a foreign country; a designated education institution satisfying the eligibility for application 4) above or the United Nations University; passed equivalents of a test and screening as set forth in Item 2, Article 16 of the graduate School Establishment Standards by March 2025; and have achievements equal to or higher than a master’s degree recognized by the graduate school of Muroran Institute of Technology.

- 7) The applicant is recommended by the Minister of Education, Culture, Sports, Science and Technology - Japan. (Notification No.118 of the Ministry of Education, Culture, Sports, Science and Technology - Japan)
- ① The applicant must be a university or college graduate, and have over two years' experience in a university or research institute by March 2025 and have achievements equal to or higher than a master's degree recognized by the graduate school of Muroran Institute of Technology.
 - ② The applicant must have completed at least 16 years of formal education outside Japan, or a foreign correspondence course in Japan, and have over two years' experience in a university or research institute by March 2025, and have achievements equal to or higher than a master's degree recognized by the graduate school of Muroran Institute of Technology.
- 8) The applicant has been recognized by the graduate school of Muroran Institute of Technology as being of equivalent status to a master's or professional degree and who will have reached the age of 24 by March 31, 2025.
- 9) The applicant must be a junior college, technical college, or a vocational school graduate, and who will have reached the age of 24 by March 31, 2025, and have experience in research or business in the science and technology field, and have achievements such as published books, technical papers, academic lectures, business results and patents equal to or higher than a master's degree recognized by the graduate school of Muroran Institute of Technology.

Notes: A preliminary examination to determine eligibility for application is necessary for those who want to make an application under the above 6) ,7),8) or 9), so they will need to complete the qualifying examination record (form specified by the graduate school of Muroran Institute of Technology). Attach a copy of any thesis and papers, as well as a copy of their graduation certificate. These documents must be sent to the Admission Office by Friday September 27, 2024.

4. Preliminary consultation

If you are physically challenging and need special assistance for entrance examinations and/or school attendance, you must make a request to the Admission Office for extra care in advance. Please inform us of those above as soon as possible so that Muroran IT can consider for your request.

In addition, the Admission Office provides consultations for entrance examinations and school attendance throughout the year. You must also notify in advance if you use an acoustic aid, a wheelchair or other daily support tools in the same way.

5. Application Procedures

(1) Registration period:

Wednesday, October 23, 2024 — Tuesday, November 5, 2024 (weekday only)

(2) Documents to be submitted

Documents to be submitted	Remarks
(A) Application Form	All items should be completed in full.
(B) Photograph	The photograph of applicant with upper body facing front should be taken within 3 months of the date of application (size 4 cm X 3 cm). Paste it in the designated space.
(C) Certificate of graduation or certificate of expected graduation (Original or Certified Copy)	It must be on signature or seal by the president (or dean) of graduate school. Only applicants who have completed (or those who are expected to complete) a doctoral course (or master's course) or professional graduate school may submit a certificate of graduation or certificate of expected graduation. However, applicants who are submitting a certificate of expected graduation must submit a certificate of graduation prior to entrance to the Graduate School. (A certificate issued by a public agency with the same contents as the original is also acceptable.)
(D) Transcript (Original or Certified Copy)	Each one of official academic transcripts with seal or signature from the graduate school and the undergraduate school. (A certificate issued by a public agency with the same contents as the original is also acceptable.)
(E) Letter of recommendation (① and ②)	① A paper of each letter from either the president of the university last attended, dean, supervisor of the graduate school, or a superior at work. ② A paper of by a supervisor in charge from Muroran IT should be submitted. (No special form is provided.)
(F) Statement of reason for Application	A paper stating the applicant's reason for applying to the doctoral course in Japanese (400 characters) or English (100 words).
(G) Research Plan	A paper stating the applicant's Research Plan in our doctoral course in Japanese or English.
(H) Photocopy of Master's thesis and its Summary	One copy of each of the following must be provided. A summary stating an outline of the applicant's master's thesis in Japanese (2,000 characters) or English (500 words). In the case of an applicant who will graduate from a master's course by March 2025, a paper stating the subject of the applicant's master's thesis and its progress in Japanese (2,000 characters) or English (500 words) must be provided. In the case of an applicant who received or will receive a professional degree by March 2025, a paper stating the outline of research progress in Japanese (2,000 characters) or English (500 words) must be provided.

(I) A Certificate of residence, a copy of a residence card or a copy of a passport	Please submit a certificate of residence, a copy of a residence card or a copy of your passport.
(J) Screening fee (JPY 30,000)	<p>In case of credit card Please enclose a printout of the payment completion e-mail with your application documents.</p> <p>In case of remittance The fee should be paid by telegraphic transfer; a copy of the application for remittance should be enclosed in the application documents to be submitted. The details can be confirmed in (4) How to Pay for the Screening Fee below.</p> <p>[Students who have completed a master's course at Muroran IT and will continue on to the doctoral course] The screening fee is unnecessary</p> <p>[Japanese Government (Monbukagakusho) MEXT - sponsored foreign students] The screening fee is unnecessary Instead of the transfer payment certificate, a certificate of government-sponsored foreign student (free format) should be submitted (prepared by the school you are enrolled in.)</p>

Notes: (i) The documents for above items (A), (F), and (G) should be written on the designated form of Muroran IT.

The formats of specified forms can be downloaded from the website

https://muroran-it.ac.jp/entrance/gsee/guidelines_is/

(ii) All documents must be written in Japanese or English. If the original document is written in another language, a Japanese or English translation must be attached.

(iii) For those applying according to 6), 7), 8) or 9) on page 4-5, the documents from above items (C), (D) concerning their master's course, and (H) are not necessary.

(iv) Incomplete application documents will not be accepted.

(v) Supervisors you desire may not be available due to retirement, etc., so confirm available supervisors in our official website below.

https://muroran-it.ac.jp/daigakuin/gsee/guidelines_gs/

(vi) Before going through application procedures, the applicant should seek the advice of his or her desired Supervisor for the contents of education/study, etc. For applicants, this can be done online via Zoom or a similar platform, by phone, or in a face-to-face meeting. (In order to ensure smooth communication with the desired supervisor, e-mail-only consultations are not acceptable.)

(3) Submission of application documents

Admissions Department, Muroran Institute of Technology
27-1 Mizumoto-cho, Muroran, Hokkaido, Japan 050-8585

(4) How to Pay for the Screening Fee

a. When you pay by credit card, please access the link below and fill in the necessary information.

(The payment system is provided by ROBOT PAYMENT INC..)

<https://credit.j-payment.co.jp/link/creditcard?aid=123829&iid=13&mailauthkey=af17143c4a6944fd830f050fce5bcba6>

※ JPY 900 handling fee will be charged for credit card payments.



b. When you remit by bank, so that we can receive it by the deadline of application, following the instructions below.

- Telegraphic Transfer

- Advise and Pay

- Bank Transfer Fee : Payer's Responsibility

Bank account to be sent	
Bank	NORTH PACIFIC BANK, LTD
Branch	NAKAJIMACHO BRANCH
SWIFT code	NORPJPJP
Account No.	3968548
Account name	NATIONAL UNIVERSITY CORPORATION MURORAN INSTITUTE OF TECHNOLOGY
Screening fee	JPY 30,000

Payment Periods	From Monday, October 14, 2024 to Monday, November 4, 2024
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Notes: The applicant needs to transfer the total amount of the screening fee, remittance charge, and yen currency exchange transaction fee incurred in the applicant's country. (All bank charges shall be borne by the remitter including transaction charges of paying banks.)

(5) Points to keep in mind regarding the application procedures

(A) Except for the following reasons, the screening fee will not be returned:

In the case that the screening fee was paid, but no application documents were submitted nor received by Muroran IT, or in the case that the screening fee was paid in duplicate. In either of these cases, request for the return of the screening fee as soon as possible.

For questions regarding the return of the screening fee contact:

Admissions Department, Muroran Institute of Technology
27-1 Mizumoto-cho, Muroran, Hokkaido, Japan 050-8585
E-mail nyushi@muroran-it.ac.jp

(B) The application will not be accepted if the screening fee has not been paid.

(C) Notify the Admission Office by phone, fax, or email as soon as possible, if there are any changes to the contact information of the applicant.

6. Screening Procedures

(1) Screening of the Applicant

Selection A:

The screening will be done on the basis of the application documents submitted.

Selection B:

The screening will be done on the basis of an oral examination and the application documents submitted.

(2) Oral Examination

Selection B: From 10:00 a.m. on Saturday, November 16, 2024

7. Location of Examination

Muroran Institute of Technology: 27-1 Mizumoto-cho, Muroran, Hokkaido

Note: Information on test rooms will be posted on the day before the admission test on the message board on the first floor of Building N of Education and Research Building No. 3 as well as on the message board for each faculty. The same information will also be posted on the website of Muroran IT

8. Announcement of the Screening Result

10:00 a.m. on Friday, November 29, 2024.

The examination numbers of successful applicants will be posted on the official Muroran IT website regarding screening results. In addition, a notice will be sent to all successful applicants by mail. Unsuccessful applicants will not be notified.

9. Enrollment Procedures

Procedures period:

Monday, December 2, 2024 — Monday, December 9, 2024 (Excluding Saturday, Sunday)

Applicants who have successfully passed the screening should prepare the necessary documents, and enrollment procedures during the dates listed above. Detailed information about the necessary documents, as well as the amount and payment method of the entrance fee and tuition fees, will be included in the enrollment information to be sent after the announcement of the successful candidates.

Entrance fee

JPY 282,000 【Expected amount】

Tuition fee (Reference)

1st Term JPY 267,900 【Expected amount】

2nd Term JPY 267,900 【Expected amount】

(Yearly total JPY 535,800 【Expected amount】 to be paid in two installments in May and November.)

Note: Entrance fee and Tuition fee are not required for Japanese Government -sponsored foreign students.

10. Information about Muroran IT

- (1) Muroran Institute of Technology is a national institute.
- (2) The Doctor's course is a three-year course after finishing a Master's Course. The degree will be awarded to those who have earned the required credits, submitted a research thesis and passed the oral defense of the thesis.
- (3) Dormitory for Foreign Students: A limited number of students are permitted upon selection by Muroran IT to live there for one year only, if space is available.
- (4) Our graduate school generally does not allow dual enrollment.

11. The Exemption and Postponement of the Entrance Fee and Tuition Fee

- (1) The exemption of the entrance fee will be approved for:
Those who are admitted to our Graduate School, and for whom it is difficult to pay the entrance fee, and those whose academic performance is judged excellent.
- (2) Postponement of the entrance fee will be approved for:
Those who are admitted to our Graduate School, and for whom it is difficult to pay the entrance fee within the admission period, and whose academic performance is judged excellent.
- (3) Those whose application form for the exemption and postponement has been accepted do not need to pay, until its approval or non-approval has been decided. If the applicant pays the fee before the decision, their application for the exemption or postponement is nullified.
- (4) The exemption and postponement of the tuition fee
Students will be informed and advised in detail regarding exemption and postponement of the tuition fee in documents related to admissions.
- (5) If applying for the program of entrance fee waiver or postponement, and then declining admission after completing the admission procedures, the application for the program shall not be approved, and the entrance fee shall be paid.

Request for Documents and Queries Concerning the Exemption and Postponement of the Entrance Fee and Tuition Fee should be addressed to:

Student Support Section, Academic Affairs Department,
Muroran Institute of Technology
27-1 Mizumoto-cho, Muroran, Hokkaido, Japan 050-8585
E-mail kousei@muroran-it.ac.jp
Office Hour: 8:30 – 12 : 00, 13 : 00 – 17:15 (Weekdays only)