



2019 Academic Year

Application for Autumn Enrollment in Master's Program

(For entry in October 2019)

Special Selection Program for Working Adults
Special Selection Program for Foreign Students

May 2019

Graduate School of Engineering, Tohoku University

○ **Admission Policy**

The Graduate School of Engineering welcomes prospective students who share the School's educational objectives and goals. They should have the following academic skills and abilities that are necessary to acquire knowledge and skills outlined in the curriculum policy:

1. Basic academic skills to learn engineering;
2. Logical thinking ability to solve problems; and
3. Language proficiency to adapt to global educational and research environment and to succeed in the world.

○ **Educational Objectives and Goals**

Staying true to the Tohoku University's traditional spirit of "Research First," "Open Doors," and "Practice-Oriented Research and Education," the Graduate School of Engineering is committed to achieving its educational objectives. One of these objectives is to develop researchers who act based on profound knowledge and broad perspective about nature and human beings, perform their research in an ethical, purposeful, and self-directed way to build safe, secure, and affluent society, and possess abundant creativity and high research skills that enable them to play a leading role in the future development and innovation of scientific technologies. Another educational objective of the School is to produce core technical experts who are equipped with not only a high-level of technical expertise but also a long-term vision and global viewpoint, and capable of making contributions to the sustainable development of our society.

Specifically, the educational goal of the Master's Degree Program is to endow students with a broad range of basic academic and language skills that are needed for the performance of research, as well as abilities to develop their research subjects by using unique ideas and present research theses at a public occasion. They are also expected to have basic skills and advanced techniques to perform a research or provide a research and technical guidance in their field of expertise.

○ **Diploma Policy**


The Graduate School of Engineering, Tohoku University, will award a master's degree in engineering to students who pass a review of master's thesis or research results on a particular subject as well as the final examination. Students are also required to remain enrolled for a specific period of time, study a set of subjects that are offered in accordance with the School's educational objectives and goals, earn a specified number of credits, and demonstrate a high-level of ethical awareness and sense of responsibility, in addition to the following knowledge and skills:

1. A broad range of basic knowledge and academic skills that help students understand and explore the essence of their research subjects;
2. Profound knowledge about their fields of expertise;
3. Interdisciplinary knowledge relating to their fields of expertise;
4. System design skills obtained through the integration of knowledge outside their fields of expertise;
5. Skills to determine a research subject and solve issues;
6. Advanced skills to perform, apply, and develop their researches;
7. Language proficiency to perform their researches; and
8. Basic skills to provide research or technical guidance.

○ **Curriculum Policy**

The Graduate School of Engineering, Tohoku University, provides education according to the following policy to ensure that students can acquire knowledge and skills required under the diploma policy:

1. Help students acquire a broad range of knowledge, advanced technical expertise, and interdisciplinary knowledge relating to their fields of expertise that are necessary to understand the essence of their research subjects and perform their researches;
2. Enable students to acquire advanced skills to work on their research subjects and develop the subjects by using unique ideas; and



3. Provide students with language proficiency that are necessary to perform their researches and make presentations of the research results.

1. Departments and Admission Quotas

Department	Quota		Department	Quota	
	Working Adults	Foreign Students		Working Adults	Foreign Students
Mechanical Systems Engineering	Low	Low	Applied Chemistry	Low	Low
Finemechanics	"	"	Chemical Engineering		
Robotics	"	"	Biomolecular Engineering	"	"
Aerospace Engineering	"	"	Metallurgy	"	"
Quantum Science and Energy Engineering	"	"	Materials Science	"	"
Electrical Engineering	"	"	Materials Processing	"	"
Communications Engineering	"	"	Civil and Environmental Engineering	"	"
Electronic Engineering	"	"	Architecture and Building Science	"	"
Applied Physics	"	"	Management Science and Technology	"	"

2. Qualifications for Application

- Those eligible to apply for the Special Selection Program for Working Adults are, in principle, those who after graduating from university have worked for at least two years as engineers, instructors, researchers or the like at the time of enrollment, and for whom any of qualifications (1) to (10) below is true.
- Those eligible to apply for the Special Selection Program for Foreign Students are those who have received a university education in Japan as foreign students or in an overseas university, and for whom any of qualifications (2) to (10) below is true. However, foreign students who have graduated from a Japanese university or expect to graduate by September, 2019 may also apply.

The applicant must:

- (1) Have graduated from university or expect to graduate by September 2019.
- (2) Have received a bachelor's degree under Article 104 Paragraph 4 of the School Education Law of Japan, or expect to receive such a degree by September 2019.
- (3) Have completed a 16-year curriculum of school education overseas, or expect to

complete such education by September 2019.

- (4) Have completed a 16-year curriculum of school education in Japan by taking correspondence courses offered by schools outside Japan, or expect to complete such education by September 2019.
- (5) Have completed a university education by taking courses designated by the Minister of Education, Culture, Sports, Science and Technology in an educational institution in Japan recognized as adopting the educational system of a foreign country and having the curriculum of that country (only when the person completing that education is regarded as having completed 16 years of that country's education), or expect to complete such education by September 2019.
- (6) Have been conferred a degree equivalent to a bachelor's degree upon completion of a curriculum that has a course term of three years or longer at a university or other school (limited to schools whose overall educational and research activities have been evaluated by the relevant country's government or a government-approved individual, or are designated separately as having met this requirement by the Minister of Education) in a foreign country (including cases in which the student completed the curriculum by taking subjects conducted by said school via distance learning while the student resided in Japan, and cases in which the student has completed a curriculum at an educational facility that is positioned within that country's educational system as per the previous item).
- (7) Have completed a specialized course of a special training school designated by the Minister of Education, Culture, Sports, Science and Technology (only when the schooling is at least four years in length and other criteria stipulated by the Minister are met), on or after the date stipulated by the Minister, or expect to complete such a course by September 2019.
- (8) Have been designated as eligible by the Minister of Education, Culture, Sports, Science and Technology under ministerial ordinance No. 5 of 1953.
- (9) Have been admitted to the graduate school of another university in accord with Article 102 Paragraph 2 of the School Education Law and be recognized by this Graduate School as having suitable academic ability for study in this program.
- (10) Be aged 22 or above and, through individual admission qualification screening, be recognized by this Graduate School as having achieved at least the equivalent academic abilities of a university graduate.

Note 1: Applicants who are employed by Tohoku University should contact the Graduate Academic Affairs Section, Graduate School of Engineering in advance.

Note 2: Applicants should contact the head of the department in which they expect to major in advance regarding their research plans after enrollment.

Note 3: Applicants applying under qualification (6) should contact the Graduate Academic Affairs Section, Graduate School of Engineering in advance.

Note 4: Applicants applying under qualifications (9) to (10) will need to undergo admission qualification screening. Please contact the Graduate Academic Affairs Section, Graduate School of Engineering in advance.

3. Period for Submission of Application

Applications will be received from Monday, June 17 to Thursday, June 27, 2019, during the office hours from 9:00 a.m. to 4:00 p.m. (except the hours from 11:45 a.m. to 1:00 p.m.). Mailed applications must reach us no later than Thursday, June 27, 2019.

(Applications will not be accepted on Saturdays or Sundays)

Submit in person or by mail to:

Graduate Academic Affairs Section
Graduate School of Engineering
Tohoku University
6-6-04 Aramaki Aza Aoba, Aoba-ku, Sendai, Miyagi 980-8579, Japan

4. Application Procedures

Applicants should prepare the following documents and submit them during the above time frame.

The certification documents must be either in Japanese or English. If the documents cannot be issued in either language, please attach a Japanese or English translation, which is officially issued by the same institution that issued the certification documents.

Please contact the Graduate Academic Affairs Section beforehand in case the above requirement cannot be fulfilled.

- *Replacement or renewal of submitted application documents are not accepted.**
- *Withdrawal of application is not accepted after its submission,**
- *Submit original certification documents. Photo copies, digital files, or printouts of digital files are not considered to be original documents.**
- * When you fill in application documents, please use a black pen (using pencils or erasable pens by friction are not allowed).**
- *If any false description would be found in application documents, entrance approval may be cancelled even after enrollment.**

Required documents	Notes
Application for admission	Use an official application form for this Graduate School.
*1 Written recommendation	Prepared by the expected supervisor, using an official form for this Graduate School. (If a recommendation cannot be submitted, submit instead a letter of acceptance by the faculty member.)
Undergraduate transcript	Issued by the dean of the university from which you graduated. (Not required if currently a resident in the School of Engineering of this university.)
<p>Original of TOEFL® Test /TOEIC® Public Test score sheets</p> <p>Valid tests: TOEFL® Test PBT, TOEFL® iBT Test, TOEIC® Public Test (Listening & Reading Test)</p>	<p>Should be submitted by applicants corresponding to the following categories (1) or (2): ; not necessary for those applying to the Applied Chemistry, Chemical Engineering, or Biomolecular Engineering departments.</p> <p>(1) Those applying under the Special Selection Program for Foreign Students to study in the Mechanical Systems Engineering, Finemechanics, Robotics, Aerospace Engineering, Quantum Science and Energy Engineering, Electrical Engineering, Communications Engineering, Electronic Engineering, Applied Physics, Metallurgy, Materials Science, Materials Processing, Civil and Environmental Engineering, Architecture and Building Science, or Management Science and Technology departments.</p> <p>(2) Those applying under the Special Selection Program for Working Adults to study in the Metallurgy, Materials Science, or Materials Processing departments.</p> <p><u>Submitted originals of TOEFL® Test /TOEIC® Test score sheets will not be returned. However, TOEFL® Test “Examinee Score Reports” can be returned on the day of the entrance examination. If requested at the time of application.</u></p> <p><u>The TOEFL institution code of the Graduate School of Engineering, Tohoku University is 8958.</u></p> <p><u>◆ When submitting a score sheet for the TOEFL® Test or for the 239th TOEIC public test or other TOEIC® public tests conducted before the 239th test:</u></p> <ul style="list-style-type: none"> • Please submit all application documents, including the score sheet, within the submission period stated in "3. Period for Submission of Application." <p><u>◆ When submitting a score sheet for the 240th or 241st TOEIC® public test:</u></p> <ul style="list-style-type: none"> • Please submit all other application documents, except the score sheet, within the submission period stated in "3. Period for Submission of Application." • <u>Please submit the score sheet to the address stated in "3. Period for Submission of Application" by Wednesday, July 31 (applications will not be accepted on Saturdays, Sundays, or</u>

	<p>holidays). When submitting the score sheet, any envelope may be used. Please mark the envelope "Contains Score Sheet," and record the department or specialty for which you are applying on the back of the score sheet.</p> <p><u>(Note) Score sheets may not be replaced with more recent test results once submitted.</u></p> <p>Example: You may not resubmit a different score sheet for the 240th or 241st TOEIC® public test after submitting a score sheet for the 239th TOEIC® public test.</p> <p><u>(Note) Score sheets which can be submitted outside of the submission period are limited to score sheets for the 240th or 241st TOEIC® public tests.</u></p> <p>Example: You may not submit a score sheet for the 239th TOEIC® public test or a score sheet for the TOEFL® Test outside of the submission period stated in "3. Period for Submission of Application."</p> <p><u>*Applicants with a letter of permission (in any format) from the expected supervisor may submit a score sheet for the 239th TOEIC® public test or other TOEIC® public tests conducted before the 239th test outside of the stated submission period, or may be exempted from submitting a score sheet.</u></p> <p>*TOEFL®, TOEFL® iBT, TOEFL® ITP, and TOEIC® are registered trademarks of Educational Testing Service (ETS).</p>
Certificate of (expected) completion or of degree conferral	Issued by the dean of the university from which the applicant has graduated or by the NIAD (National Institution for Academic Degrees and Quality Enhancement of Higher Education).
*2 Photo ID and examination admission ticket	Photo (4cm high × 3cm wide) must show upper body, facing front with no hat, and must have been taken within three months of application. Attach photo to the photo ID sheet.
Selection of language for the examination	Applicants for "Special Selection Program for Foreign Students" who wish to be enrolled in the Departments of: Mechanical Systems Engineering, Finemechanics, Robotics, Aerospace Engineering, and Quantum Science and Energy Engineering, should fill out.
Examination fee	30,000 yen <u>*Examination Fee waiver (for disaster victims)</u> <u>For further information, please contact Graduate Academic Affairs Section in advance</u>
*3 Examination fee receipt	Use an official form for this Graduate School (enter applicant's name on both copies).
*4 Envelope for submitting application	Fill in the sender's information on an official envelope of this Graduate School and submit.

*5 Return envelope for examination admission ticket	Write your name and address (including postal number) on an official envelope of this Graduate School, and affix 92 yen in postage.
*6 Return envelope for results notification	Write your name and address (including postal number) on an official envelope of this Graduate School, and affix 530 yen in postage.

• **Applicants who live outside Japan should pay attention to the following notes.**

- *1. Written recommendation should be requested to the expected supervisor. The expected supervisor will obtain the official form from the office and submit it directly.
- *2. Only the photo should be submitted.
- *3 - *6. Not required.

Note: Applicants must submit the following documents, respectively, in addition to the above.

Special Selection Program for Working Adults

Required documents	Notes
Summary of research or work	Research/work carried out during time spent working as an engineer, instructor, researcher, etc. (approximately 1 A4-size page).
Research plan	Approximately 1 A4-size page
Proof of employment	Issued by head of workplace, showing employment duration, nature of work, and identity. (Any format; with official letterhead, signature, seal, etc.) Not necessary for those intending to remain employed while in school.
Written consent to take exam	Issued by head of workplace, showing employment duration, nature of work, and identity. (Any format; with official letterhead, signature, seal, etc.) Only for those intending to remain employed while in school.

Special Selection Program for Foreign Students

Required documents	Notes
Written recommendation	Prepared by a supervising faculty member or the equivalent from your university (any format).
Proof of Japanese language proficiency	Prepared by a Japanese instructor or (prospective) professor, etc. (Any format).
Written consent to take exam	Issued by head of workplace. (Any format; with official letterhead, signature, seal, etc.) Only for those intending to remain employed (both domestic and foreign) while in school.
Other reference materials	Papers, reports, etc. demonstrating academic ability.

● Acquiring VISA for examination (Temporary Visitor VISA)

Applicants for the Master's Program at the Graduate School of Engineering, Tohoku University, who live outside Japan and need to acquire a "Temporary Visitor VISA (for examination)" should receive an "examination permit" which our university will issue after we receive your application. Those who require us to issue an "examination permit" should include a request letter (any format) along with their application documents. Applicants are also required to send a photo (5cm high ×4cm wide) in addition to the photo for the "photo ID". Please write down your name and the name of the department to which you have chosen to apply on the reverse side of the photo.

5. Examination and Selection

Examination dates: To take place from Tuesday, August 27 to Thursday, August 29, 2019 according to the attached schedule.

Location: Graduate School of Engineering, Tohoku University (details will be sent directly to each applicant from the department to which the application was made).

- Applicants for the Special Selection Program for Working Adults will be selected based on overall consideration of a written test or essay, oral interview test results, and submitted documents.
- Applicants for the Special Selection Program for Foreign Students will be selected based on overall consideration of a written test or essay, oral interview test results, language proficiency, and submitted documents.

6. Announcement of Results

Results are scheduled to be posted around 5:00 p.m. on Monday, September 9, 2019, on the following website (<https://www.eng.tohoku.ac.jp/>)

Notification of results will also be mailed to applicants. Please note that results cannot be given in response to telephone inquiries.

7. Enrollment Procedures, Etc.

(1) The enrollment procedures are scheduled to be processed on Thursday, September 19, 2019. Details of the enrollment procedures will be announced when the acceptance letter is mailed in early September, 2019.

(2) Fees necessary at the time of enrollment:

(a) Admission fee: 282,000 yen (tentative)

(b) Tuition: 267,900 yen for one semester (annual 535,800 yen) (tentative)

Note 1: The above amounts are tentative. In the case that admission or tuition fees are revised, the new fees will become applicable from the time of the revision.

Note 2: Information on the waiving of admission or tuition fees, or permission to defer payment to a later date, etc., will be provided in the enrollment procedures documents sent after the results notification.

8. Eligibility for the Long Term Study Program

Some applicants, due to the need to continue with employment or other special circumstances (**Note 1**), may request permission to follow a planned course of study longer than the normal period of two years in order to receive their master's degree (**Note 2**). This Graduate School offers such an option, called a “Long Term Study Program”, to those who qualify in an advance screening exam. Long term master's students pay the same amount over the length of their studies as those enrolled in the standard two-year program. Inquiries about this program can be accepted at any time before enrollment. Please contact the Graduate Academic Affairs Section, Graduate School of Engineering.

Applicants hoping to be considered for this program will be notified separately regarding the procedure for applying. Be sure to put a check mark in the appropriate place on the admission application form. Note that this program is applicable only from the beginning of studies, and cannot be entered into after studies have begun.

Note 1: To be eligible for this program, the applicant who (1) is employed by a company or be self-employed, (2) needs maternity leave, or is engaged in child or family care , or (3) is otherwise determined by this Graduate School to be suitable for the program (excluding financial reasons).

*In principle, this program is limited to students in the Special Selection Program for Working Adults. Persons in other Special Selection programs wishing to be considered may, however, request an examination in advance with the Graduate Academic Affairs Section, Graduate School of Engineering.

Note 2: The period of study may not be extended beyond four years, but it is possible to request that the period be shortened.

In principle, no special curriculum will be prepared for students in the long term study program.

9. Handling of Personal Information

(1) The Graduate School of Engineering of Tohoku University handles personal information in strict compliance with regulations such as the “Act on the Protection of Personal Information Held by Incorporated Administrative Agencies” and the “National University Corporation Tohoku University - Policy on the Protection of Personal Information”, taking every precaution to protect

personal information.

- (2) Examination results and other personal information obtained in the application process will be used for the selection of students for admission, enrollment procedures, follow-up surveys, student support after enrollment (e.g., scholarships, tuition waiver, and health care), student guidance, and other academic purposes, as well as in collection of tuition fees, etc.
- (3) After enrollment, the Graduate School may outsource administrative work in educational affairs to third-party companies and provide them, as necessary, with some or all of the student's personal information in compliance with the "National University Corporation Tohoku University - Policy on the Protection of Personal Information".

10. Important Notes

- (1) "Laboratory introduction" (listing the specialties offered in each field) is available on the website (<https://www.eng.tohoku.ac.jp/english/admission/procedure/grad.html>). Please refer to it when submitting your application.
- (2) **Applications by post are to be sent in the designated envelope as Registered Express mail. Applicants who live outside Japan may use any envelope.** Applicants will not be automatically notified of the receipt of applications. Those desiring notification should enclose a postcard with their return address along with their application.
- (3) Submitted application documents and examination fees cannot be returned.
- (4) If you do not receive your examination admission ticket by ten days prior to the examination date, please contact the Graduate Academic Affairs Section, Graduate School of Engineering.
- (5) All other inquiries regarding application for admission should likewise be made to the Graduate Academic Affairs Section, Graduate School of Engineering.
- (6) When requesting printed application forms by mail, enclose a self-addressed return envelope for A4-sized documents (approximately 34 cm x 24 cm) with your name, address, and postal code, and with 250 yen postage affixed. You should attach a memo noting the type of application (the name of the selection program) and your phone number or e-mail address. The application forms are written in Japanese. Only applicants who live outside Japan may use downloaded application forms.
- (7) Applicants desiring consultation regarding the need for assistance or other considerations in taking the examination or conducting your studies should make a written application indicating the items listed below (no special format). Be assured that such a request will in no way prejudice the outcome of the selection process, as all applicants will be treated fairly.

- *Deadline for consultation: As a rule, no later than Monday, June 3, 2019.
- *Information to be indicated in making an application:
- (a) Name, address, and phone number of applicant
 - (b) University, etc. from which the applicant has graduated
 - (c) Any special considerations desired when taking the examination
 - (d) Any special considerations desired in the study environment
 - (e) Nature of considerations provided up to now
 - (f) Other relevant information about daily life circumstances
 - (g) Reference materials (if currently under medical treatment, enclose a medical certificate issued by your physician)

(8) Tohoku University has established Tohoku University Security Export Control Regulations based on the Foreign Exchange and Foreign Trade Act, and screens each submitted application when we accept international students in our university. In the event that their research plans apply to the regulatory concerns, above mentioned students may not be able to receive desired education and their research themes may be limited.

May 2019

Graduate Academic Affairs Section

Graduate School of Engineering

Tohoku University

6-6-04 Aramaki Aza Aoba, Aoba-ku, Sendai, Miyagi 980-8579, Japan

Phone: +81-22-795-5820

Appendix— Admission Screening Examination Schedule for October 2019 Enrollment in Master's Program
 Special Selection Programs for Working Adults and for Foreign Students

(A) Special Selection Program for Working Adults

Department	Test Subjects	Date and Time	Description	Remarks
Mechanical Systems Engineering, Finemechanics, Robotics, Aerospace Engineering	Math A (elective)*	Tue., Aug. 27, 9:30 to 11:00 a.m. (assemble at 9:00)	Differential and Integral Calculus, Linear Algebra, Vector Analysis	(1) On the scope of each subject, inquire with your department or confirm with the website below. http://www.mech.tohoku.ac.jp/ (2) Tests in specialized subjects end at the following times. If one subject is selected: 10:30 a.m. If two subjects are selected: noon (3) Calculators or devices such as watches or mobile phones with calculation or communication functions are not allowed in the examination room. (4) Interviews are given only for those applicants who pass the written test. When and how they will be notified of the written test results will be announced on the first day of testing. Inquire with Department of Systems Science and Mechanical Engineering Academic Affairs Section for details. Phone: 022-795-7030
	Math B (elective)*	Tue., Aug. 27, 1:30 to 3:00 p.m.	Ordinary Differential Equations, Partial Differential Equations, Fourier Series and Fourier Transforms, Laplace Transforms	
	Specialized subjects (elective)*	Wed., Aug. 28, 9:00 to noon (assemble at 8:30)	Thermodynamics, Fluid Dynamics, Strength of Materials, Dynamics of Mechanical Systems, Control Engineering	
	*Choose any two of the seven subjects (Math A, Math B, and five specialized subjects). The choice of subjects must be notified in advance.			
	Interview	Thu., Aug. 29 (time indicated by your department)	Questions about your studies up to now and research plans after entering this program. English ability may also be asked about.	

Department	Test Subjects	Date and Time	Description	Remarks
Quantum Science and Energy Engineering	Math A (elective)*	Tue., Aug. 27, 9:30 to 11:00 a.m. (assemble at 9:00)	Differential and Integral Calculus, Linear Algebra, Vector Analysis	<p>(1) The applicant whose research achievement, research history, and others are approved as qualified, will be exempted from the written exam, and will be given an interview (research presentation and Q & A sections) for about 30 minutes. The applicants should ask the prospective professor as to the details for an exemption and an application method for the written test.</p> <p>(2) On the scope of each subject, inquire with your department or confirm with the website below. http://www.qse.tohoku.ac.jp/</p> <p>(3) Tests in specialized subjects end at the following times. If one subject is selected: 10:30 a.m. If two subjects are selected: noon</p> <p>(4) Calculators or devices such as watches or mobile phones with calculation or communication functions are not allowed in the examination room.</p> <p>(5) Interviews are given only for those applicants who pass the written test. When and how they will be notified of the written test results will be announced on the first day of testing. Inquire with Department of Systems Science and Mechanical Engineering Academic Affairs Section for details. Phone: 022-795-7030</p>
	Math B (elective)*	Tue., Aug. 27, 1:30 to 3:00 p.m.	Ordinary Differential Equations, Partial Differential Equations, Fourier Series and Fourier Transforms, Laplace Transforms	
	Specialized subjects (elective)*	Wed., Aug. 28, 9:00 to noon (assemble at 8:30)	Thermodynamics, Fluid Dynamics, Strength of Materials, Dynamics of Mechanical Systems, Control Engineering, Materials Science, Electromagnetics, Quantum Mechanics	
	*Choose any two of the ten subjects (Math A, Math B, and eight specialized subjects). The choice of subjects must be notified in advance.			
	Interview	Thu., Aug. 29 (time indicated by your department)	Questions about your studies up to now and research plans after entering this program. English ability may also be asked about.	
Electrical Engineering, Communications Engineering, Electronic Engineering	Interview	Wed., Aug. 28 or Thu., Aug. 29 (time indicated by your department)	Approx. 10-minute presentation about studies up to now and research plans after entering this program. Bring three copies of support materials with you.	The oral test about the basic academic ability related to the research topic may be charged.

Department	Test Subjects	Date and Time	Description	Remarks
Applied Physics	Short essay	Tue., Aug. 27, 10:00 to noon		The field-specific interview will be held prior to the entrance exam (late August).
	Interview	Wed., Aug. 28, from 9:00 a.m.	English ability may also be asked about.	
Applied Chemistry, Chemical Engineering, Biomolecular Engineering	Short essay	Tue., Aug. 27, 9:00 to 11:00 a.m.	Japanese and English summary	Department inquiries: Office: 022-795-7205 Website: http://www.che.tohoku.ac.jp/index.html
	Interview	Tue., Aug. 27, from 1:00 p.m.		
Metallurgy, Materials Science, Materials Processing	English		At the time of application, submit an original TOEFL® or TOEIC® score sheet no older than two years before the entrance exam.	(1) Submitted TOEFL®/TOEIC® score sheets will not be returned. However, this excludes TOEFL® “Examinee Score Report”. It can be returned on the entrance examination day if the applicants request at the time of application. Please refer to the following website to ensure further details, especially the types of TOEFL®/TOEIC® scores to meet the admission requirement. http://www.material.tohoku.ac.jp/admission/index.html (2) Schedules etc. will be notified individually. (3) Dictionaries are not allowed during the test. *Inquire with the department for details. Department head: 022-795-7342 Academic Affairs Section: 022-795-7373
	Oral test	30 minutes, from Tue., Aug. 27 to Thu., Aug. 29	The test consists of 5 areas, such as physics, chemistry, materials chemistry, materials science and materials processing.	
	Short essay	40 minutes, from Tue., Aug. 27 to Thu., Aug. 29		
	Interview	10 minutes, from Tue., Aug. 27 to Thu., Aug. 29 (Conducted during the Oral test)		

Department	Test Subjects	Date and Time	Description	Remarks
Civil and Environmental Engineering	Short essay	Tue., Aug. 27, 9:30 to 11:00 a.m.	Topics related to civil and environmental engineering	(1)Calculators or devices such as watches or mobile phones with calculation or communication functions are not allowed in the examination room.
	Interview	Tue., Aug. 27	Questions followed by questions about the research or work at the place of employment, motivation for application, research plans after entering this program, etc.	(2)Time and place of the interview will be notified by your department. (3)Inquire with the department for details. Phone: 022-795-7489 (Civil Engineering and Architecture Academic Affairs Section)
Architecture and Building Science	Short essay	180 minutes, Tue., Aug. 27		Time and place of the interview will be notified by your department. Phone: 022-795-7489 (Civil Engineering and Architecture Academic Affairs Section)
	Oral test	15 minutes, Tue., Aug. 27	Questions about essay contents	
	Interview	Tue., Aug. 27	At the same time of the oral test.	
Management Science and Technology	Field-specific test (written)	Tue., Aug. 27, 1:00 to 3:00 p.m.	Assessment of logical thinking, expression ability and basic academic ability suitable for study in this field.	Time and place of field-specific test (oral) will be notified individually. Department inquiries: Office: 022-795-3863 Website: http://www.most.tohoku.ac.jp
	Field-specific test (oral)	Wed., Aug. 28, from 9:00 a.m. or Thu., Aug. 29, from 9:00 a.m.	Assessment of basic academic ability, and aptitude for the research field after entry. 20 minutes per person.	

(B) Special Selection Program for Foreign Students

Department	Test Subjects	Date and Time	Description	Remarks
Mechanical Systems Engineering, Finemechanics, Robotics, Aerospace Engineering	English		At the time of application, submit an original TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. Students whose native tongue is English should contact the department individually.	The application is not acceptable if the applicant, except those whose native language is English, is unable to submit the original score sheet within the application period. (Exception if the applicant is able to submit the score sheet of the adequate TOEIC public test after application period. In either case, it is "failed" if the original score sheet is not submitted by the designated date.)
	Math A (mandatory)	Tue., Aug. 27 9:30 to 11:00 a.m. (assemble at 9:00)	Differential and Integral Calculus, Linear Algebra, Vector Analysis	(1) On the scope of each subject, inquire with your department or confirm with the website below. http://www.mech.tohoku.ac.jp/
	Math B (mandatory)	Tue., Aug. 27 1:30 to 3:00 p.m.	Ordinary Differential Equations, Partial Differential Equations, Fourier Series and Fourier Transforms, Laplace Transforms	(2) Calculators or devices such as watches or mobile phones with calculation or communication functions are not allowed in the examination room.
	Specialized subjects (elective)*	Wed., Aug. 28, 9:00 a.m. to noon (assemble at 8:30)	Thermodynamics, Fluid Dynamics, Strength of Materials, Dynamics of Mechanical Systems, Control Engineering *Choose any two of the above listed five specialized subjects. The choice of subjects must be notified in advance.	(3) Interviews are given only for those applicants who pass the written testing. When and how they will be notified of the written test results will be announced on the first day of testing. Inquire with Department of Systems Science and Mechanical Engineering Academic Affairs Section for details. Phone: 022-795-7030
	Interview	Thu., Aug. 29 (time indicated by your department)	Questions about undergraduate thesis, etc. and research plans after entering this program.	

Department	Test Subjects	Date and Time	Description	Remarks
Quantum Science and Energy Engineering	English		At the time of application, submit an original TOEFL [®] or TOEIC [®] score sheet no older than two years before the entrance exam. Students whose native tongue is English should contact the department individually.	The application is not acceptable if the applicant, except whose native language is English, is unable to submit the original score sheet within the application period. (Exception if the applicant is able to submit the score sheet of the adequate TOEIC public test after application period. In either case, it is “failed” if the original score sheet is not submitted by the designated date.)
	Math A (mandatory)	Tue., Aug. 27 9:30 to 11:00 a.m. (assemble at 9:00)	Differential and Integral Calculus, Linear Algebra, Vector Analysis	(1) On the scope of each subject, inquire with your department or confirm with the website below. http://www.qse.tohoku.ac.jp/ (2) Calculators or devices such as watches or mobile phones with calculation or communication functions are not allowed in the examination room. (3) Interviews are given only for those applicants who pass the written testing. When and how they will be notified of the written test results will be announced on the first day of testing. Inquire with the Department of Systems Science and Mechanical Engineering Academic Affairs Section for details. Phone: 022-795-7030
	Math B (mandatory)	Tue., Aug. 27 1:30 to 3:00 p.m.	Ordinary Differential Equations, Partial Differential Equations, Fourier Series and Fourier Transforms, Laplace Transforms	
	Specialized subjects (elective)*	Wed., Aug. 28, 9:00 a.m. to noon (assemble at 8:30)	Thermodynamics, Fluid Dynamics, Strength of Materials, Dynamics of Mechanical Systems, Control Engineering, Materials Science, Electromagnetics, Quantum Mechanics *Choose any two of the above listed eight specialized subjects. The choice of subjects must be notified in advance.	
	Interview	Thu., Aug. 29 (time indicated by your department)	Questions about undergraduate thesis, etc. and research plans after entering this program.	

Department	Test Subjects	Date and Time	Description	Remarks
Electrical Engineering, Communications Engineering, Electronic Engineering	English		At the time of application, submit an original TOEFL [®] or TOEIC [®] score sheet no older than two years before the entrance exam.	<p>On the scope of each subject, inquire with your department or confirm with the website below. http://www.ecei.tohoku.ac.jp/ecei_web/admission/exam_subject.html</p> <p>Calculators or devices such as watches or mobile phones with calculation or communication functions are not allowed in the examination room.</p> <p>Department inquiries: Electronic Information System and Applied Physics Academic Affairs Section Phone: 022-795-7186</p>
	Basic subjects	Tue., Aug. 27, 9:30 to 11:30 a.m.	Choice of 2 questions from the following 6 areas: electromagnetics, electrical circuits, basic information science 1, basic information science 2, basic physics, basic mathematics.	
	Specialized subjects	Wed., Aug. 28, 9:30 to 11:30 a.m.	Choice of 2 questions from the following 6 areas: Electrical engineering, communications engineering, electronic engineering, computer science 1, computer science 2, advanced physics.	
	Interview	Wed., Aug. 28 or Thu., Aug. 29 (time indicated by your department)	Approx. 10-minute presentation about your university education or thesis (including the thesis now on writing), and research plans after entering this program, etc. Bring three copies of support materials with you. To include assessment of Japanese language ability.	

Department	Test Subjects	Date and Time	Description	Remarks
Applied Physics	English		At the time of application, submit an original TOEFL [®] or TOEIC [®] score sheet no older than two years before the entrance exam. Students whose native tongue is English should contact the department individually.	<p>The written test will be waived for foreign student applicants with outstanding qualifications.</p> <p>The field-specific interview will be held prior to the entrance exam (late August)</p> <p>Calculators or devices such as watches or mobile phones with calculation or communication functions are not allowed in the examination room.</p> <p>Department inquiries: Electronic Information System and Applied Physics Academic Affairs Section Phone: 022-795-7186</p>
	Basic subjects	Tue., Aug. 27, 10:00 to 11:30 a.m.	Choice of 2 questions from the following fields: quantum mechanics, mechanics, physical math (differential equations, vector analysis, Fourier series and transform, Laplace transform). English translations provided as necessary.	
	Specialized subjects	Tue., Aug. 27 1:00 to 2:30 p.m.	Choice of 2 questions from the following fields: electromagnetism (electrostatics, magnetostatics, electromagnetic induction), statistical mechanics, condensed matter physics, physical experiments and measurements. English translations provided as necessary.	
	Interview	Wed., Aug. 28 from 9:00 a.m.		

Department	Test Subjects	Date and Time	Description	Remarks
Applied Chemistry, Chemical Engineering, Biomolecular Engineering	Basic subjects	Tue., Aug. 27 9:00 to 10:40 a.m. 11:00 to 12:40 p.m.	Physical chemistry, organic chemistry Math, analytical chemistry	Department inquiries: Office: 022-795-7205 Website: http://www.che.tohoku.ac.jp/index.html
	Specialized subjects	Wed., Aug. 28 9:00 to 9:50 a.m.	Applicant's field of specialty	
	English	Wed., Aug. 28 10:00 to 10:50 a.m.		
	Interview test	Wed., Aug. 28 (time indicated by your department)		

Department	Test Subjects	Date and Time	Description	Remarks
Metallurgy, Materials Science, Materials Processing	English		At the time of application, submit an original TOEFL® or TOEIC® score sheet no older than two years before the entrance exam.	<p>(1) Submitted TOEFL®/TOEIC® score sheets will not be returned. However, this excludes TOEFL® “Examinee Score Report”. It can be returned on the entrance examination day if the applicant makes inquire at the time of application. Please refer to the following website to ensure further details, especially the types of TOEFL®/TOEIC® scores to meet the admission requirement. http://www.material.tohoku.ac.jp/admission/index.html</p> <p>(2) Assessment of qualifications</p> <ul style="list-style-type: none"> • Submission of TOEFL®/TOEIC® score sheet may be waived for qualified applicants. Ask the applicant’s prospective professor for details. • Mathematics ability will be evaluated based on the applicant’s academic record. <p>(3) Schedules etc. will be notified individually.</p> <p>(4) Dictionaries are not allowed during the test.</p> <p>*Inquire with the department for details. Department head: +81-22-795-7342 Academic Affairs Section: +81-22-795-7373</p>
	Oral test	30 minutes, from Tue., Aug. 27 to Thu., Aug. 29	The test consists of 5 areas, such as physics, chemistry, materials chemistry, materials science and materials processing. Japanese language skills will also be checked during the test.	
	Short essay	40 minutes, from Tue., Aug. 27 to Thu., Aug. 29	Japanese or English	
	Interview	10 minutes, from Tue., Aug. 27 to Thu., Aug. 29 (Conducted during the Oral test)	Interview	

Department	Test Subjects	Date and Time	Description	Remarks
Civil and Environmental Engineering	English		At the time of application, submit an original TOEFL [®] or TOEIC [®] score sheet no older than two years before the entrance exam.	<p>(1) Calculators or devices such as watches or mobile phones with calculation or communication functions are not allowed in the examination room.</p> <p>(2) Refer to the the following website for past questions and the scope. http://www.civil.tohoku.ac.jp/inshi.html</p> <p>(3) Time and place of the interview will be notified by your department.</p> <p>(4) Inquire with the department for details.</p> <p>Phone: 022-795-7489 (Civil Engineering and Architecture Academic Affairs Section)</p>
	Specialized subjects	Tue., Aug 27, 2:30 to 4:30 p.m.	Choice of four questions from the following 17 questions in eight subjects. <ol style="list-style-type: none"> 1. Mathematics (calculus, linear algebra, probability and statistics) 2. Mechanics of Elastic Bodies and Structures 3. Geotechnical and Concrete Engineering 4. Hydraulics 5. Water Quality and Environment 6. Biological and Ecological Engineering 7. Transportation Engineering and Planning 8. Operations Research 	
	Interview	Tue., Aug. 27 or Wed., Aug. 28	Questions followed by your university education or undergraduate thesis (including the thesis now on writing), motivation for application, research plans after entering this program, etc. Assessment of Japanese-language ability is also made at this time.	

Department	Test Subjects	Date and Time	Description		Remarks
Architecture and Building Science	English		At the time of application, submit an original TOEFL or TOEIC score sheet no older than two years before the entrance exam.		(1) Take note that test subjects differ for each course.
	Specialized subjects	Tue., Aug. 27. 9:00 a.m. to noon	Architecture and Urban Design Course	3 questions in urban design, architectural design, and structural design	(2) Calculator and dictionaries are not allowed in the examination room.
			Architecture and Urban Planning Course	2 to 4 questions in architectural and urban planning, and history of architecture	(3) Applicants for the Architecture and Urban Design Course must bring a portfolio of design works. Applicants for other courses also can bring a portfolio to use for the interview.
			Sustainable Architecture and Building Science Course	1 to 3 questions in each of building environment engineering, building material	(4) According to the applicant request, English translated problem can be distributed in the examination. You can make a request to the department in advance, if you need the English translated problem.
			Structural Engineering for Architecture	1 to 3 questions in each of building materials, load, structure, and structural mechanics	(5) Refer to the following website for past questions and the scope. http://www.archi.tohoku.ac.jp
	Specialized subjects	Tue., Aug 27, 1:30 to 4:30 p.m.	Architecture and Urban Design Course	Drafting and design	(6) Time and place of the interview will be notified by the department.
	Interview	Wed., Aug. 28 or Thu., Aug. 29			Department inquiries: Civil Engineering and Architecture Academic Affairs Section Phone: 022-795-7489

Department	Test Subjects		Date and Time	Description	Remarks
Management Science and Technology	System A	Written test (English, Field- specific test etc.)	Tue., Aug. 27 and Wed., Aug. 28	Taking the test subject on the department according to the specific field of your undergraduate department.	(1) Selection is conducted on the system A or B. Either which system you are applicable will be decided based on the application documents and notified at the time of sending the examination admission ticket. (2) Specific field which is suitable for your undergraduate department is decided based on the field inquiring sheet. <u>This sheet should be obtained from the department website and submit at the time of application.</u> (3) A part of the written test may be waived depending on the applicant's record as indicated on transcripts. (4) Examples of math problems (system B) can be obtained from the department website. Department inquiries: Office: TEL 022-795-3863 Website: http://www.most.tohoku.ac.jp
		Interview	Thu., Aug. 29	Aptitude as a student of this program	
	System B	English		At the time of application, submit an original TOEFL® or TOEIC® score sheet no older than two years before the entrance exam.	
		Math	Tue., Aug. 27, 9:30 to 11:30 a.m.	Differential and integral calculus, vector analysis, differential equations, linear algebra, probability and statistics, etc.	
		Field- specific test (written)	Tue., Aug. 27, 1:00 to 3:00 p.m.	Assessment of logical thinking, expression ability and basic academic ability suitable for study in this field.	
		Field- specific test (oral)	Wed., Aug. 28 from 9:00 a.m. or Thu., Aug. 29 from 9:00 a.m.	Assessment of basic academic ability, and aptitude for the research field after entry. 20 minutes per person.	

志望専攻	専攻	受験記号番号	
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* Please DO NOT fill in the above blanks

FORM (1/4)

In A4 sized (21cm × 29.5cm) and color printing

2019 Academic Year

APPLICATION FOR AUTUMN ENROLLMENT IN MASTER'S PROGRAM

令和元年度

博士課程前期2年の課程入学願書

(For entry in October 2019)

(令和元年10月入学)

* Check the applicable item (該当項目に印をつける)

- Special Selection Program for Working Adults (社会人特別選抜)
 Special Selection Program for Foreign Students (外国人留学生等特別選抜)

INSTRUCTIONS (記入上の注意)

- The application should be typed if possible, or neatly handwritten in block letters. (明瞭に記入すること。)
- Numbers should be in Arabic numerals. (数字は算用数字を用いること。)
- Years should be written using the Anno Domini system. (年号はすべて西暦とすること。)
- Proper nouns should be written in full and not abbreviated. (固有名詞はすべて正式な名称とし、一切省略しないこと。)

1. Name in full in native language _____, _____ (Gender)
 (姓名 (自国語)) (Family name) (First name) (Middle name) Male (男)
 Female (女)

In Roman block capitals _____, _____
 (ローマ字) (Family name) (First name) (Middle name)

2. Country or area _____
 (国 籍)

3. Date of birth (生年月日)
 19 _____
 Year (年) Month (月) Day (日) Age (as of October 1, 2019)
 年齢 (2019年10月1日現在)

4. Department and academic advisor in Japan (志望専攻名・受入(希望)教員名)
 Department of _____ / Prof. Associate Prof.

5. Present status (現職)
 Name of the employer: _____
 (企業等の名称)
 Section/department: _____
 (所属部課等)
 Employment duration: From _____ ~ up to now (現在に至る)
 (在職期間) Year (年) Month (月) Day (日)
 After entering to Tohoku University: remain employed (在職のまま) resign (退職)

* Check the applicable item

6. Present address and telephone number, facsimile number, e-mail address
(現住所及び電話, ファックス番号, E-mail アドレス)

現住所 (Present address) : _____

電話番号/FAX 番号 (Telephone/facsimile number) : _____

E-mail address : _____

7. The institution you have graduated / will graduate. (卒業した, あるいは卒業予定の機関)

Institution (機関)	Year (年)	Month (月)

8. Long Term Study Program (長期履修制度)

Do you wish to apply for the Long Term Study Program? Yes No
(長期履修制度の適用を希望しますか) (希望する) (希望しない)

* Applicants for Special Selection Program for Working Adults should refer to “8. Eligibility for Long Term Study Program” in the announcement. Other applicants who wish to apply for this program should contact the Graduate Academic Affairs Section, Graduate School of Engineering.

(社会人特別選抜志願者は募集要項「8 長期履修学生制度の適用」を参照のうえ、選択してください。その他の選抜志願者で希望する方は事前に問い合わせてください。)

9. About the presentation of the score sheet (スコアシートの提出について)

- I submit a TOEFL score sheet or the score sheet of the TOEIC® public test to the 239th.
(TOEFL®スコアシートまたは第239回までのTOEIC®公開テストのスコアシートを提出します。)
- I submit the score sheet of the 240th or 241st TOEIC® public test by a predetermined method by Wednesday, July 31, 2019.
(第240回または第241回 TOEIC®公開テストのスコアシートを所定の方法で令和元年7月31日(水)までに提出します。)

10. Educational background (学歴)

	Name and Address of School (学校名及び所在地)	Year and Month of Entrance and Completion (入学及び卒業年月)	Amount of time spent at the school attended (修学年数)	Diploma or Degree awarded, Major subject (学位・資格, 専攻科目)
Elementary Education (初等教育)	Name (学校名)	From (入学)	years (年)	
Elementary School (小学校)	Location (所在地)	To (卒業)	and months (月)	
Secondary Education (中等教育)	Name (学校名)	From (入学)	years (年)	
Lower Secondary School (中学)	Location (所在地)	To (卒業)	and months (月)	
Upper Secondary School (高校)	Name (学校名)	From (入学)	years (年)	
	Location (所在地)	To (卒業)	and months (月)	
Higher Education (高等教育)	Name (学校名)	From (入学)	years (年)	
Undergraduate Level (大学)	Location (所在地)	To (卒業)	and months (月)	
Graduate Level (大学院)	Name (学校名)	From (入学)	years (年)	
	Location (所在地)	To (卒業)	and months (月)	
Total years of schooling mentioned above (以上を通算した全学校教育修学年数) as of October 1, 2019 (2019年10月1日現在)			years (年)	

*If the blank spaces above are not sufficient for the information required, please attach a separate sheet.
((注) 上欄に書ききれない場合には、適当な別紙に記入して添付すること。)

11. State the titles or subjects of books or papers (including graduation thesis authored by the applicant), if any, with the name and address of the publisher and the date of publication.
(著書, 論文, (卒業論文を含む。))があればその題名, 出版社名, 出版年月日, 出版場所を記すこと。)

*Please attach abstracts of those papers to this application. ((注) 論文の概要を添付のこと。)

12. Employment Record: Begin with the most recent employment, if applicable. (職歴)

Name and address of organization (勤務先及び所在地)	Period of employment (勤務期間)	Position (役職名)	Type of work (職務内容)
	From To		
	From To		

* I swear the above is a true statement
(上記のとおり相違ありません)

Date of application:
(申請年月日)

Applicant's signature:
(申請者署名)

Applicant's name
(in Roman block capitals):
(申請者氏名)

機械機能創成専攻, ファインメカニクス専攻, ロボティクス専攻, 航空宇宙工学専攻,
量子エネルギー工学専攻の志願者で外国籍の方のみ記入してください。

Applicants of foreign nationals who wish to be enrolled in the Departments of; Mechanical
Systems Engineering, Finemechanics, Robotics, Aerospace Engineering, and Quantum Science
and Energy Engineering, should fill out the following section.

令和元年度 東北大学大学院工学研究科 博士課程前期 2年の課程
2019 Academic Year Application for Autumn Enrollment in Master's Program
外国人留学生等特別選抜 Special Selection Program for Foreign Students

受験言語選択票 Selection of language for the examination

受験記号番号 Entrance Exam. ID-No. (記入しないでください。 Please do not fill in)		氏名 Name	
		受験言語選択 Select of language	<input type="checkbox"/> [日本語 Japanese] <input type="checkbox"/> [英語 English]

※筆答試験の試験問題冊子の記載言語、面接の質問等が選択した上記の言語となります。

Writing Exam, Interview Test will be conducted using the language selected above.

(受験票, 合否通知書及び受験ビザを送付するための宛名ラベル)

* Fill the receiver's name and address of examination admission ticket

To: _____
Address: _____

Postal code _____ tel _____
(examination admission ticket)

* Fill the receiver's name and address of results notification

To: _____
Address: _____

Postal code _____ tel _____
(results notification)

[if applicable] (該当する場合)

* For sending the "examination permit" (to acquire a Temporary Visitor VISA in order to sit the examination)

To: _____
Address: _____

Postal code _____ tel _____
("Temporary Visitor VISA (for examination)")