2019 Academic Year

Application for Spring Enrollment in Master's Program

(for entry in April 2019)

Regular Program for Incoming Students from Other Schools (Secondary recruitment)
Special Selection Program for Working Adults
Special Selection Program for Foreign Students

October 2018

Graduate School of Engineering, Tohoku University

Admission Policy

The Graduate School of Engineering welcomes prospective students who share our 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 needed to learn engineering;
- 2. Logical thinking ability to solve problems; and
- 3. Linguistic proficiency to adapt to and leverage a global educational and research environment.

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 research;
- 7. Linguistic proficiency necessary to perform their research; 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 its 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 field of expertise that are necessary to understand the essence of their research subjects and perform their research;
- 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 linguistic skills that are necessary to perform their research and make a presentation of the research results.

1. Departments and Admission Quotas

Regular Program for Incoming Students from Other Schools (Secondary recruitment)

Department	Quota
Quantum Science and Energy Engineering	Low

Special Selection Program for Working Adults

Special Selection Program for Foreign Students

	Quota			Quota	
Department	Working Adults	Foreign Students	Department	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	"	11	Materials Science	"	"
Electrical Engineering	"	"	Materials Processing	"	"
Communications Engineering	"	"	Civil and Environmental Engineering	"	"
Electronic Engineering	"	"	Architecture and Building Science	"	"
Applied Physics	"	11	Management Science and Technology	"	"

2. Qualifications for Application

- Those eligible to apply for the Regular Program for Incoming Students from Other Schools (Secondary recruitment) are, for whom any of qualifications (1) to (10) below is true.
- 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 applicable.
- 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 applicable. However, foreign students who have graduated from a Japanese university or expect to graduate by March 2019 may also apply.

The applicant must:

- (1) Have graduated from university or expect to graduate by March 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 March 2019.
- (3) Have completed a 16-year curriculum of school education overseas, or expect to complete such education by March 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 March 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 March 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 course by March 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 is 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 applying under the Special Selection Program for Working Adults 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 should be submitted from Friday, January 4 to Thursday, January 10, 2019, during the office hours from 9:00 a.m. to 4:30 p.m. (not including 11:45 a.m. to 1:00 p.m.).

All application documents must be reached to the office by the last day of the above period. (Applications will not be accepted on Saturdays, Sundays, or national holidays.)

Submit in person or 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 Documents

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,
- *Tohoku University does not accept copies digital files, or printouts of digital files as original documents
- * When you fill in application documents, please use a black pen (using pencils or erasable pens by friction are not allowed).

*If you declare a false information to the application forms, your admission will be revoked even after enrollment.

Required documents	Notes
Application for admission	Use an official application form for this Graduate School.
*1 Written recommendation	Prepared by the faculty member under whom you expect to study, using an official form of this Graduate School. (If a recommendation cannot be submitted, instead submit a letter of acceptance by the faculty member.)
recommendation	Not necessary for those applying for the department of Quantum Science and Energy Engineering under the Regular Program for Incoming Students from Other Schools (Secondary recruitment).
Undergraduate transcript	Issued by the dean of the university from which you graduated. (Not required if currently a student of the School of Engineering of this university.)
	Should be submitted by applicants corresponding to the following categories (1) to (3),: not necessary for those applying to the Applied Chemistry, Chemical Engineering, or Biomolecular Engineering departments.
	(1) Those applying under the Special Selection Program for Foreign Students to study in 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.
Original of TOEFL®Test /TOEIC® Public Test score sheets	(2) Those applying under the Special Selection Program for Working Adults for study in Metallurgy, Materials Science, or Materials Processing.
Valid tests:	(3) Those applying for the department of Quantum Science and Energy Engineering under the Regular Program for Incoming Students from Other Schools (Secondary recruitment).
TOEFL®Test PBT, TOEFL iBT®Test,, TOEIC® Public Test	Submitted originals of TOEFL/TOEIC score sheets will not be returned. However TOEFL®Test "Examinee Score Reports" may be returned on the day of the entrance examination, if requested at the time of application.
(Listening & Reading Test)	The TOEFL institution code of the Graduate School of Engineering, Tohoku University is 8958.
	◆When submitting a score sheet for the TOEFL, or for the 235th TOEIC public test or other TOEIC public tests conducted before the 235th test:
	• Please submit all application documents, including the score sheet, within the submission period stated in "3. Period for Submission of Application."
	♦When submitting a score sheet for the 236th TOEIC public

	toat:		
	test:		
	• Please submit all other application documents, except the score sheet, within the submission period stated in "3. Period for Submission of Application.".		
	• Please submit the score sheet to the address stated in "3. Period for Submission of Application" by Tuesday, January 22 (applications will not be accepted on Saturdays, Sundays, or national 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.		
	(Note) Score sheets may not be replaced with more recent test results once submitted.		
	Example: You may not resubmit a different score sheet for the 236th TOEIC public test after submitting a score sheet for the 235th TOEIC public test.		
	(Note) Score sheets which can be submitted outside of the submission period are limited to score sheets for the 236th TOEIC public tests.		
	Example: You may not submit a score sheet for the 235th TOEIC public test or a score sheet for the TOEFL outside of the submission period stated in "3. Period for Submission of Application."		
	* Applicants with a letter of permission (in any format) from the faculty member under whom they expect to study may submit a score sheet for the 235th TOEIC public test or other TOEIC public tests conducted before the 235th test outside of the stated submission period, or may be exempted from submitting a score sheet. Not applicable for those applying for the department of Quantum Science and Energy Engineering under the Regular Program for Incoming Students from Other Schools (Secondary recruitment)		
	*TOEFL, TOEFL iBT, TOEFL ITP, and TOEIC are registered trademarks of Educational Testing Service (ETS).		
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 University Evaluation).		
*2 Photo ID and examination admission ticket	Photo (4cm high \times 3cm wide) must show upper body, facing front with no hat, and have been taken within three months of application. Attach it 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 submit.		

Examination fee	30,000 yen (If the application is mailed, submit a postal money order leaving the recipient blank.)
*3 Examination fee receipt	Use an official form for this Graduate School (fill in applicant's name on both copies).
*4 Envelope for submitting application	Fill in the sender's information on the back of the 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 faculty member. The faculty member will obtain the official form from the office and submit it directly.
- *2. Photo ID sheet is not required. Only the photo should be submitted.
- *3 *6. Not required.

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

Regular Program for Incoming Students from Other Schools (Secondary recruitment)

Required documents	Notes
Written consent to take exam	Issued by head of workplace. Required only for those intending to remain employed while in school. (Any format; with official letterhead, signature, seal, etc.)

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. Required only for those intending to remain employed while in school. (Any format; with official		

letterhead, signature, seal, etc.)

Special Selection Program for Foreign Students

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

About 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 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: From Monday, March 4 to Wednesday, March 6, 2019 according to the attached schedule.

Location: Graduate School of Engineering, Tohoku University, Sendai, Japan

(Details will be sent directly to each applicant from the department to which the application is made.)

- Applicants to the Special Selection Program for Working Adults will be selected based on overall consideration of a written essay, oral interview test results, and submitted documents.
- Applicants to 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, March 11, 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 Wednesday, March 20, 2019. Details of the enrollment procedures will be announced when the acceptance letter is mailed in early March, 2019.
- (2) Fees necessary at the time of enrollment
 - (a) Admission fee: 282,000 yen (tentative)
 - (b) Tuition (first semester): 267,900 yen (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 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 must (1) be employed by a company or be self-employed, (2) be perform childbirth, childcare, and nursing care, etc., or (3) be 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,
 - 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 selection of students for admission, enrollment procedures, follow-up surveys, student support after enrollment (e.g., scholarships, tuition waiver, 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 following website (https://www.eng.tohoku.ac.jp/) under the Admissions menu. 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 by 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) A separate call for applications will be issued for students with three years or more of university who are "recognized by this Graduate School of as having obtained the necessary credits with excellent grades."

- (8) Applicants desiring consultation regarding the need for special assistance or other consideration 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 Wednesday, December 5, 2018.
 - *Information to be indicated in creating application:
 - A) Name, address and phone number of applicant
 - B) University, etc. from which the applicant has graduated
 - C) Any special considerations desired in taking the examination
 - D) Any special considerations desired in the study environment
 - E) Nature of any special considerations provided up to now
 - F) Other relevant information about daily life circumstances
 - G) Reference materials (if currently under treatment, enclose a medical certificate issued by your physician)

October 2018

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 April 2018 Enrollment in Master's Program Regular Program for Incoming Students from Other Schools (Secondary recruitment)

Special Selection Programs for Working Adults and for Foreign Students

(A) Regular Program for Incoming Students from Other Schools (Secondary recruitment)

Department	Test Subjects	Date and Time	Description	Remarks
	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.	Recruiting Divisions
	Math A (mandatory)	Mon., Mar. 4 10:30 to noon (assemble at 10:00)	Differential and integral calculus, linear algebra, vector analysis, ordinary differential equations	
	Math B (mandatory)	Mon., Mar. 4 1:30 to 3:00 p.m.	Fourier series and Fourier transforms, Laplace transforms, partial differential equations	
Quantum Science and Energy Engineering	Specialized subjects (elective)* Specialized subjects (elective)* Tue., Mar. 5, 9:00 a.m. to noon (assemble at 8:30) Thermodynamics, Fluid dynamics, Strength of mate Dynamics of mechanical sy Control engineering, Mater science, Electromagnetics, Quantum mechanics *Choose any two of the about listed eight specialized subjects must notified in advance through	dynamics, Strength of materials, Dynamics of mechanical systems, Control engineering, Materials science, Electromagnetics,	 Engineering for Actinide Materials, IMR Division of Instrumentations (Cyclotron and Radioisotope Center) (1) Written testing may be waived depending on the applicant's record as indicated on transcripts. (2) Because the applicants from chemical field may admit choosing the specialized 	
	Interview	Wed., Mar. 6(time indicated by your department)	Questions about undergraduate thesis, etc. and research plans after entering this program.	subjects of chemistry as a specialized subject (choice), inquire of the department head beforehand. Phone: 022-795-7901 (3) On the scope of each subject, inquire with your department or consult the Web sites below. http://www.qse.tohoku.ac.jp/ (4) Calculators or devices such as watches and mobile phones with calculation or

	communication functions are not allowed in the examination room.
	Inquire with Department of Mechanical and Aerospace Engineering Academic Affairs Section for details. Phone: 022-795-7030

(B) Special Selection Program for Working Adults

Department	Test Subjects	Date and Time	Description	Remarks
Mechanical Systems Engineering, Finemechanics, Robotics, Aerospace Engineering *Cho sub dep	Math A (elective)*	Mon., Mar. 4, 10:30 to noon (assemble at 10:00)	Differential and integral calculus, linear algebra, vector analysis, ordinary differential equations	(1) Written testing may be waived depending on the applicant's record as indicated on transcripts. (2) On the scope of each subject, inquire with each department or consult the websites below. http://www.mech.tohoku.ac.jp/ (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 (4) Calculators or devices such as watches and mobile phones with
	Math B (elective)*	Mon., Mar. 4, 1:30 to 3:00 p.m.	Fourier series and Fourier transforms, Laplace transforms, partial differential equations	
	Specialized subjects (elective)*	Tue., Mar. 5, 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 seven subjects (Math A, Math B, and five specialized subjects). The choice of subjects must be notified in advance through the department office.			calculation or communication functions are not allowed in the examination room. (5) Interviews are given only for those applicants who pass the written testing.
	Interview	Wed., Mar. 6 (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.	When and how to notify the written testing. When and how to notify the written test results will be announced on the first da of testing. Inquire with Department of Mechanical and Aerospace Engineering Academic Affairs Section for details. Phone: 022-795-7030

Department	Test Subjects	Date and Time	Description	Remarks
Quantum Science and Energy	Math A (elective)*	Mon., Mar. 4, 10:30 to noon (assemble at 10:00)	Differential and integral calculus, linear algebra, vector analysis, ordinary differential equations	(1) Written testing may be waived depending on the applicant's record as indicated on transcripts.
	Math B (elective)*	Mon., Mar. 4, 1:30 to 3:00 p.m.	Fourier series and Fourier transforms, Laplace transforms, partial differential equations	(2) On the scope of each subject, inquire with each department or consult the websites below. http://www.qse.tohoku.ac.jp/
	Specialized subjects (elective)*	Tue., Mar. 5, 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, Thermodynamics, Fluid dynamics, Strength of materials, Dynamics of mechanical systems, Control engineering, Materials science, Electromagnetics, (4) Calculator		(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 (4) Calculators or devices such as watches and mobile phones with calculation or
Engineering		the ten subjects (Math A, I e of subjects must be notifi	communication functions are not allowed in the examination room. (5) Interviews are given only for those	
	Interview	Wed., Mar. 6 (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.	applicants who pass the written testing. When and how to notify the written test results will be announced on the first day of testing. Inquire with Department of Mechanical and Aerospace Engineering Academic Affairs Section for details. Phone: 022-795-7030
Electrical Engineering, Communications Engineering,, Electronic Engineering	Interview	Tue., Mar.5 or Wed., Mar. 6 (time indicated by your department)	Approx. 10-minute presentation about studies up to now and research plans after entering this program. Take three copies of support materials with you.	Oral test about the basic academic ability related the research topic may be charged.

Department	Test Subjects	Date and Time	Description	Remarks	
Applied Physics	Short essay	Mon., Mar. 4, 10:00 to 11:30 a.m.		A specialized interview will take place prior to the entrance exam (late	
Applied I flysics	Interview	Tue., Mar. 5, from 9:00 a.m.	English ability may also be asked about.	February).	
Applied Chemistry, Chemical Engineering,	Short essay	120 minutes, from Mon., Mar. 4 to Tue. , Mar. 5	Japanese and English summary	Department inquiries: Chemistry and Biomolecular Academic Affairs Section Phone: 022-795-7205	
Biomolecular Engineering	Interview	20 minutes, from Mon., Mar. 4 to Tue. , Mar. 5		Website: http://www.che.tohoku.ac.jp/index-j.html	
	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 originals of TOEFL®/TOEIC® score sheets will not be returned. TOEFL® "Examinee Score Report" only can be returned at the entrance examination day if you apply a the time of application	
Metallurgy, Materials Science,	Oral test	30 minutes, from Mon., Mar. 4 to Wed., Mar. 6	5 areas: physics, chemistry, materials chemistry, materials science, materials processing.	(2) Schedule etc. will be notified individually. (3) Use of dictionaries is not allowed.	
Materials Processing	Short essay	40 minutes, from Mon., Mar. 4 to Wed., Mar. 6		*Regarding the details of TOEFL®/TOEIC® score requirements, and other inquiries, please contact the	
	Interview	10 minutes, from Mon., Mar. 4 to Wed., Mar. 6 (same time as oral test)		department. http://www.material.tohoku.ac.jp/admison/index.html Phone: (Department head) +81(22)-795-7352, (Academic Affairs Section) +81(22)-795-7373	

Department	Test Subjects	Date and Time	Description	Remarks	
	Short essay	Mon., Mar. 4, 9:30 to 11:00 a.m.	Topic related to civil and environmental engineering	(1) Use of calculator and dictionaries is	
Civil and Environmental Engineering	Interview	Mon., Mar. 4	Questions about the research or work at the place of employment, motivation for application, research plans after entering this program, etc.	not allowed. (2) Inquire with department for details. Phone: 022-795-7489 (Civil Engineering and Architecture Academic Affairs Section)	
	Short essay	Mon., Mar. 4 9:00 to 12:00 a.m.		Time and place and of the examination of the interview will be notified by	
Architecture and Building Science	Oral test	Mon., Mar. 4 or Tue., Mar. 5 (time indicated by your department)	Questions about essay contents	department. Department inquiries: Phone: 022-795-7489 (Civil Engineering	
	Interview	Mon., Mar. 4 or Tue., Mar. 5 (time indicated by your department)	At the same time of the oral test.	and Architecture Academic Affairs Section)	
Management Science and Technology	Field-specific test (written)	Mon., Mar. 4, 1:00 to 3:00 p.m.	Assessment of logical thinking, expression ability and basic academic ability suitable for study in this field.	(1) Areas covered on field-specific tests (written) are indicated on department Web site. (2) Time and place of field-specific test	
	Field-specific test (oral)	Tue., Mar. 5, from 9:00 a.m. or Wed., Mar. 6, from 9:00 a.m.	Assessment of basic academic ability, and aptitude for the research field after entry. 20 minutes per person.	(oral) will be notified separately. Department inquiries: Office: 022-795-3863 Website: http://www.most.tohoku.ac.jp	

(C) Special Selection Program for Foreign Students

Department	Test Subjects	Date and Time	Description	Remarks
	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.	 Written testing may be waived depending on the applicant's record as indicated on transcripts. On the scope of each subject, inquire with your department or consult the Web sites below. http://www.mech.tohoku.ac.jp/
	Math A (mandatory)	Mon., Mar. 4 10:30 to noon (assemble at 10:00)	Differential and integral calculus, linear algebra, vector analysis, ordinary differential equations	http://www.neen.tonoku.ac.jp/ http://www.qse.tohoku.ac.jp/ (3) Calculators or devices such as watches and mobile phones with
Mechanical Systems Engineering,	Math B (mandatory)	Mon., Mar. 4 1:30 to 3:00 p.m.	Fourier series and Fourier transforms, Laplace transforms, partial differential equations	calculation or communication functions are not allowed in the examination room. (4) Interviews are given only for those
Finemechanics, Robotics, Aerospace Engineering	Specialized subjects (elective)*	Tue., Mar. 5, 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 through the department office.	applicants who pass the written testing. When and how to notify the written test results will be announced on the first day of testing. (5) Because you do not accept application in itself when you cannot submit the original of the score sheet of the TOEFL® or TOEIC® public test within the reception desk period of at the time of an application or mention, warn him.
	Interview	Wed., Mar. 6 (time indicated by your department)	Questions about undergraduate thesis, etc. and research plans after entering this program.	and Aerospace Engineering Academic Affairs Section for details. Phone: 022-795-7030

Department	Test Subjects	Date and Time	Description	Remarks	
	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.	 Written testing may be waived depending on the applicant's record as indicated on transcripts. On the scope of each subject, inquire with your department or consult the Web sites below. 	
	Math A (mandatory)	Mon., Mar. 4 10:30 to noon (assemble at 10:00)	Differential and integral calculus, linear algebra, vector analysis, ordinary differential equations	http://www.qse.tohoku.ac.jp/ (3) Calculators or devices such as watches and mobile phones with calculation or communication functions	
Quantum Science	Math B (mandatory)	Mon., Mar. 4 1:30 to 3:00 p.m.	Fourier series and Fourier transforms, Laplace transforms, partial differential equations	are not allowed in the examination room. (4) Interviews are given only for those applicants who pass the written testing.	
Quantum Science and Energy Engineering	Specialized subjects (elective)*	Tue., Mar. 5, 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 through the department office.	When and how to notify the written test results will be announced on the first day of testing. (5)Because you do not accept application in itself when you cannot submit the original of the score sheet of the TOEFL® or TOEIC® public test within the reception desk period of at the time of an application or mention, warn him. Inquire with Department of Mechanical and Aerospace Engineering Academic Affairs Section for details.	
	Interview	Fri., Mar. 6(time indicated by your department)	Questions about undergraduate thesis, etc. and research plans after entering this program.	Phone: 022-795-7030	

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.	
	Basic subjects	Mon., Mar. 4, 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 math	(1)On the scope of each subject, inquire with your department or consult the website below. http://www.ecei.tohoku.ac.jp/ecei_web/admission/exam_subject.html
	Specialized subjects	Tue., Mar. 5, 9:30 to 11:30 a.m.	Choice of 2 questions from the following 6 areas: Electrical engineering, communication engineering, electronic engineering, computer science 1, computer science 2, advanced physics	(2)Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room. Department inquiries: Electronic Information
	Interview	Tue., Mar. 5 or Wed., Mar. 6 (time indicated by your department)	Approx. 10-minute presentation about your university education or thesis, and research plans after entering this program, etc. Take three copies of support materials with you. To include assessment of Japanese language ability.	System and Applied Physics Academic Affairs Section Phone: 022-795-7186

Department	Test Subjects	Date and Time	Description	Remarks
	English		At the time of application, submit an original TOEFL® or TOEIC® score sheet no older than two years before the entrance exam.	Inquire with department for details Electronic Information System and Applied Physics Academic Affairs Section
Applied Physics	Basic subjects	Mon., Mar. 4, 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.	Written testing will be waived for foreign student applicants with outstanding qualifications. A field-specific interview will take place prior to the entrance exam (late February)
	Specialized subjects	Mon., Mar. 4, 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.	Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room. Department inquiries: Electronic Information System and Applied Physics Academic Affairs Section Phone: 022-795-7186
	Interview	Tue., Mar. 5 from 9:00 a.m	necessary.	
Applied Charact	Basic subjects	100 minutes 100 minutes from Mon., Mar. 4 to Tue., Mar. 5	Physical chemistry, Organic chemistry Math, Analytical chemistry	Donastanast in suisiae Charist and
Applied Chemistry, Chemical Engineering, Biomolecular Engineering	Specialized subjects	50 minutes, from Mon., Mar. 4 to Tue., Mar. 5.	Applicant's field of specialty	Department inquiries: Chemistry and Biomolecular Academic Affairs Section Phone: 022-795-7205 Website:
	English	50 minutes, from Mon., Mar. 4 to Tue., Mar. 5		http://www.che.tohoku.ac.jp/index-j.html
	Interview test	30 minutes, from Mon., Mar. 4 to Tue., Mar. 5		

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.	(1) Submitted originals of TOEFL®/TOEIC® score sheets will not be returned. TOEFL® "Examinee Score Report" only can be returned at the entrance examination day if you apply at the
	Oral test	30 minutes, from Mon., Mar. 4 to Wed., Mar. 6	5 areas: physics, chemistry, materials chemistry, materials science, materials processing Assessment of Japanese-language ability to be made at this time also.	time of application (2) Assessment of qualifications • Submission of TOEFL/TOEIC score sheet may be waived for qualified applicants. Inquiries with your prospective academic adviser for details. • Mathematics ability will be evaluated based on your academic record.
	Short essay	40 minutes, from Mon., Mar. 4 to Wed., Mar. 6	Japanese or English	(3) Schedule etc. will be notified individually. (4) Use of dictionaries is not allowed. *Regarding the details of TOEFL®/TOEIC® score requirements, and other inquiries, please contact the department. http://www.material.tohoku.ac.jp/admission/inde
	Interview	10 minutes, from Mon., Mar. 4 to Wed., Mar. 6 (same time as oral test)		x.html Phone: (Department head) +81(22)-795-7352, (Academic Affairs Section) +81(22)-795-7373

Department	Test Subjects	Date and Time	Description	Remarks
	English		At the time of application, submit an original TOEFL® or TOEIC® score sheet no older than two years before the entrance exam.	
Civil and Environmental Engineering	Specialized subjects	Mon., Mar. 4, 2:30 to 4:30 p.m	Choice of four questions from the 17 questions in following eight subjects. 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	 (1) Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room. (2) See the following website for past questions and scope. http://www.civil.tohoku.ac.jp/inshi.html (3) Time and place of the interview will be notified by department. (4) Inquire with department for details. Phone: 022-795-7489 (Civil Engineering and Architecture Academic Affairs Section) Department inquiries: Civil Engineering and Architecture Academic Affairs Section
	Interview	Mon., Mar. 4 or Tue., Mar. 5	Questions about 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.	Phone: 022-795-7489

Department	Test Subjects	Date and Time	Des	scription	Remarks
	English		At the time of application, submit an original TOEFL® or TOEIC® score sheet no older than two years before the entrance exam.		
			Architecture and Urban Design Course	3 questions in urban design, architectural design, and structural design	(1) Note that test items and times differ for each course.
		Mon., Mar. 4, 9:00 a.m. to noon	Architecture and Urban Planning Course	2 to 4 questions in architectural and urban planning, and history of architecture	 (2) Applicants for the course of urban design must bring a portfolio of design works. Applicants for other courses also can bring a portfolio and use for the interview. (3) Question sheets translated in English can also be issued according to the applicants' request. You should inquire with the
Architecture and Building Science	Specialized subjects		Sustainable Architecture and Building Science Course	1 to 3 questions in each of building environment, materials, and structure	department office if necessary. (4) Use of calculator, dictionaries is not allowed. (5) See the following website for past questions and scope. http://www.archi.tohoku.ac.jp/ (6) Time and place of interview will be notified by department. Department inquiries: Civil Engineering and Architecture Academic Affairs Section Phone: 022-795-7489
			Structural Engineering for Architecture Course	1 to 3 questions in each of building materials, load, structure, and structural mechanics	
		Mon., Mar. 4, 1:30 to 4:30 p.m.	Architecture and Urban Design Course	Drafting and design	1 Hone: 022 193 1409
	Interview	Mon., Mar. 4 or Tue., Mar.5 (time indicated by your department)			

Department	Tes	t Subjects	Date and Time	Description	Remarks
Sy	System A	Written test (English, Field- specific etc.)	Mon., Mar. 4 and Tue., Mar. 5	Taking the test subject on the department according to the specific field of your undergraduate department.	(1) Selection is conducted on the system A and
		Interview	Wed., Mar. 6	Aptitude as a student of this program	B, Either which system you are applicable will be decided based on the application
Management		English		At the time of application, submit an original TOEFL® or TOEIC® score sheet no older than two years before the entrance exam.	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. This sheet should be obtained from the department website and
Management Science and Technology	System B	Math	Mon., Mar. 4, 9:30 to 11:30 a.m.	Differential and integral calculus, vector analysis, differential equations, linear algebra, probability and statistics, etc.	submit at the time of application. (3) A part of written test may be waived depending on the applicant's record as indicated on transcripts. (4) Examples of math questions (system B) can
		Field-specific test (written)	Mon., Mar. 4, 1:00 to 3:00 p.m.	Assessment of logical thinking, expression ability and basic academic ability suitable for study in this field.	be obtained from department website. Department inquiries: Office: TEL 022-795-3863 Website:
		Field-specific test (oral)	Tue., Mar. 5 from 9:00 a.m. or Wed., Mar. 6 from 9:00 a.m.	Assessment of basic academic ability, and aptitude for the research field after entry. 20 minutes per person.	http://www.most.tohoku.ac.jp

志望専攻		専攻	受験記号番号	
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In A4 siz	ed (21cm \times 29.5	, .		
		2019 Academic Year		
	APPL	JICATION FOR SPRING ENROLLMENT IN MA 平成 31 年度	STER'S PROGRAM	
		中成 31 平及 博士課程前期 2 年の課程入学願	聿	
		(For entry in April 2019)	Ħ	
		(平成 31 年 4 月入学)		
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	☐ Regular F	Program for Incoming Students from Othe	er Schools	
	(Secondary i	recruitment) (一般選抜(第2次募集))		
	-	lection Program for Working Adults(社会人		
	☐ Special Se	lection Program for Foreign Students(外国 <i>)</i>	(留学生等特別選抜)	
こと。) 1. Name in full in (姓名(自		(Family name) (First n	ame) (Middle nan	(Gender) ne) □Male(男) □Female(女)
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3. Date of birth	(生年月日)			
	Month(月) 9 年 4 月 1 日現在)	Day (日) Age (as of April 1,	2019)	
4. Department ar	ıd academic advisor ir	ı Japan(志望専攻名・受入(希望)教員名)		
<u>Department</u>	of	/ □Prof. □Ass	sociate Prof.	
5. Present status	(現職)			
Name of the (企業等の	employer: 名称)			
Section/dep (所属部課	artment: 等)			
Employmen (在職期間	t duration: <u>From</u>)	Year (年) Month (月) Day(目	~ up to now (現在に至る)
After enteri (入学後)	ng to Tohoku Universi	ty: □ remain employed 〔在職のまま〕	□ resign (退職)	

* Check the applicable item

6. Present address and telephone number, facsimile number, e-mail add (現住所及び電話,ファックス番号,E - mail アドレス)	ress
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	ら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? (長期履修制度の適用を希望しますか)	es □ No (希望する) (希望しない)
* Applicants for Special Selection Program for Working Adults should announcement. Other applicants who wish to apply for this program 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) で希望する方は事前に問い合わせてください。)	利」を参照のうえ、選択してください。その他の選抜志願者
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 p (TOEFL スコアシートまたは第235回までの TOEIC 公開ラ	ublic test to the 235th. ・ストのスコアシートを提出します。)
□ I submit the score sheet of the 236th TOEIC public test by a pr (第236回 TOEIC 公開テストのスコアシートを所定の方法	edetermined method by Tuesday, January 22, 2019. で平成31年1月22日(火)までに提出します。)

10. Educational background (学歷)

0. Educational backgrour	IG (J-IE)	Year and Month	Amount of time	
	Name and Address of School (学校名及び所在地)	of Entrance and Completion (入学及び卒業年月)	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) and	
Elementary School (小学校)	Location (所在地)	To (卒業)	months (月)	
Secondary Education (中等教育)	Name (学校名)	From (入学)	years (年) and	
Lower Secondary School (中学)	Location (所在地)	To (卒業)	months (月)	
	Name (学校名)	From (入学)	years (年)	
Upper Secondary School (高校)	Location (所在地)	To (卒業)	and months (月)	
Higher Education	Name (学校名)	From (入学)	years (年)	
(高等教育) Undergraduate Level (大学)	Location (所在地)	To (卒業)	and months (月)	
	Name (学校名)	From (入学)	years (年)	
Graduate Level (大学院)	Location (所在地)	To (卒業)	and months (月)	
		poling mentioned above 全学校教育修学年数)	ye (年	ars

*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。)

(2019年4月1日現在)

^{*}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. (職歷)

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		

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-	* I swear the above i (上記のとおり相違			
		Date of (申請年	Fapplication: 再月日)	
		Applica (申請才	ant's signature: 皆署名)	
		Applica (in Ron (申請ā	ant's name nan block capitals): 皆氏名)	

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 $(\hbox{``Temporary Visitor VISA (for examination)''})\\$

Postal code TEL