## 2019 Academic Year

# Application for Spring Enrollment in Master's Program

(for entry in April 2019)

Special Selection Program for Early Graduate 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

Special Selection Program for Early Graduate Students

Department	Quota	Department	Quota
Mechanical Systems Engineering	Low	Applied Chemistry	Low
Finemechanics	"	Chemical Engineering	"
Robotics	"	Biomolecular Engineering	"
Aerospace Engineering	"	Metallurgy	"
Quantum Science and Energy Engineering	"	Materials Science	11
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

Applicants for the Special Selection Program for Early Graduate Students are those who have been permitted to graduate fulfilling the enrollment period of more than three years and less than four years, and also expect to graduate in March 2019.

## 3. Period for Submission of Application

Applications should be submitted from Tuesday, January 22 to Friday, January 25, 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.		
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.)		
Original of TOEFL®Test /TOEIC®	Not necessary for those applying to the Applied Chemistry, Chemical Engineering, or Biomolecular Engineering.		
Public Test score sheets	Not necessary for those who are currently in the IMAC-U program and applying to the Mechanical Systems Engineering, Finemechanics, Robotics, or Aerospace Engineering.		
Valid tests:			
TOEFL®Test PBT , TOEFL iBT®Test ,,	Submitted originals of TOEFL/TOEIC score sheets will not be returned. However TOEFL®Test "Examinee Score Reports" may		
TOEIC® Public Test	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.		

	*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.
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.

## 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 long ×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:** 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.)

### 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. 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".

## 9. Important Notes

- (1) "Laboratory Introduction" (listing the specialties offered in each field) is available on the following website (<a href="https://www.eng.tohoku.ac.jp/">https://www.eng.tohoku.ac.jp/</a>) 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, January 9, 2019.
  - \*Information to be indicated in making 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)

 $Graduate\,A cademic\,Affairs\,Section$ 

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
- Special Selection Program for Early Graduate 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.	(1) Written testing may be waived
	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	depending on the applicant's record as indicated on transcripts.  (2) On the scope of each subject, inquire with your department or consult the Web
Mechanical Systems Engineering, Finemechanics,	Math B (mandatory)	Mon., Mar. 4 1:30 to 3:00 p.m.	Fourier series and Fourier transforms, Laplace transforms, partial differential equations	sites below.  http://www.mech.tohoku.ac.jp/ (3) Calculators or devices such as watches and mobile phones with calculation or
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.	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
	Interview	Wed., Mar. 6 (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
	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.	
	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	<ol> <li>Written testing may be waived depending on the applicant's record as indicated on transcripts.</li> <li>On the scope of each subject, inquire</li> </ol>
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	with your department or consult the Web sites below. http://www.qse.tohoku.ac.jp/ (3) Calculators or devices such as watches
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.	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
	Interview	Fri., Mar. 6 (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 Engineering Engineering Engineering Engineering Engineering Engineering  English  English  Basic subjects Specialized subjects Engineering  English  Basic subjects  Mon., Mar. 4, 10:00 to 11:30 a.m.  Mon., Mar. 4, 10:00 to 11:30 a.m.  Mon., Mar. 4, 10:00 to 11:30 a.m.  Interview  Interview  English  Basic subjects  Interview  English  Basic subjects  Interview  English  Basic subjects  Interview  English  Basic subjects  Interview  English  English  English  English  Mon., Mar. 4 13:30 to 14:30 p.m.  Tue., Mar. 5 (time indicated by your department)  English  Mon., Mar. 4 13:30 to 14:30 p.m.  Tue., Mar. 5 (time indicated by your department)  English  Math  Mon., Mar. 4 1:00 to 2:30 p.m.  Tue., Mar. 5  You have to the indicated by your department by the indicated by indicated by your department by the indicated by indicat				
Engineering,	Basic subjects			Department inquiries: Electronic Information
Communications Engineering, Electronic	1 -	9:30 to 11:30 a.m.		System and Applied Physics Academic Affairs Section
	Interview	Mar. 6 (time indicated by		Phone: 022-795-7186
	English			
	Basic subjects			Department inquiries: Electronic Information
Applied Physics	1 -			System and Applied Physics Academic Affairs Section Phone: 022-795-7186
	Interview			
	Basic subjects	*		
Chemical				Department inquiries: Chemistry and Biomolecular Academic Affairs Section Phone: 022-795-7205
Biomolecular	English	· · · · · · · · · · · · · · · · · · ·		Website: http://www.che.tohoku.ac.jp/index-j.html
Engmeering	Interview test	(time indicated by your		
	English			
	Math	1		*Regarding inquiries, please contact the department.
Materials	-	· · · · · · · · · · · · · · · · · · ·		http://www.material.tohoku.ac.jp/admission/ind ex.html Phone: (Department head) +81(22)-795-7352,
Trocessing	Interview	Wed., Mar. 6 9:00 to noon		(Academic Affairs Section) +81(22)-795-7373

Department	Tes	t Subjects	Date and Time	Description	Remarks
	English				
Civil and Environmental Engineering	Specialized subjects		Mon., Mar. 4, 9:30 to 11:00 a.m.		Department inquiries: Civil Engineering and Architecture Academic
	Specializ	zed subjects	Mon., Mar. 4,		Affairs Section Phone: 022-795-7489
	Intervie	W	Mon., Mar. 4 or Tue., Mar. 5		1 Hone: 022 130 1403
	English				
Architecture and	Specializ	zed subjects	Mon., Mar. 4, 9:00 a.m. to noon 1:30 to 4:30 p.m.		Department inquiries: Civil Engineering and Architecture Academic
Building Science	Intervie	w	Mon., Mar. 4 or Tue.Mar.5 (time indicated by your department)		Affairs Section Phone: 022-795-7489
	nt	Written test (English, Field- specific etc.)	Mon., Mar. 4 and Tue., Mar. 5		
		Interview	Wed., Mar. 6		
Management Science and		English	Mon., Mar. 4,		Department inquiries: Office: TEL 022-795-3863
Technology		Math	9:30 to 11:30 a.m.		Website: http://www.most.tohoku.ac.jp
	t (:	Field-specific test (written)	Mon., Mar. 4, 1:00 to 3:00 p.m.		
		Field-specific test (oral)	Tue., Mar. 5 from 9:00 a.m. or Wed., Mar. 6 from 9:00 a.m.		

	志望専攻					専攻	受験記号番号		
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				(Fo	r entry in A	pril 2019)			
				(4	区成 31 年 4	1月入学)			
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2	2. Nationality (国 籍)_						<u> </u>		
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	Year(年) 年齢(2019	Month(月 9年4月1日野	月) Day 見在)	(目)	Age	( as of April 1,2	2019)		
4	4. Department ai	nd academic ad	lvisor in Japan	(志望専攻名	呂・受入(希	·望)教員名)			
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6. Present address and telephone number, facsimile number, e-mail addr (現住所及び電話,ファックス番号,E - mail アドレス)	ress	
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7. The institution you have graduated / will graduate.(卒業した,ある	らいは卒業予定の機関)	
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10. Educational background (学歴)

10. Educational backgroun	(1/IE/	Year and Month	Amount of time	
ļ	Name and Address of School	of Entrance and	spent at the	Diploma or Degree awarded,
	(学校名及び所在地)	Completion	school attended	Major subject
	(子仪石及び別任地)	Completion (入学及び卒業年月)	(修学年数)	(学位・資格, 専攻科目)
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<b>5</b> 1	(学校名)	(入学)	(年)	
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(初等教育)			and months	
	Location	То	(月)	
Elementary School	(所在地)	(卒業)	(Д)	
(小学校)				
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	(学校名)	(入学)	(年)	
Secondary Education	( )			
(中等教育)			and	
	Location	То	months	
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Upper Secondary School (高校)	Location	То	months	
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	(万日土地)	(午来)		
	Name	From	years	
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Higher Education			1	
(高等教育)			and months	
	Location	То	(月)	
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(大学)				
	Name	From	years	
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\*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)

<sup>\*</sup>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)
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