

2019 Academic Year

Application for Spring Enrollment in Doctoral Program

(for advancement/entry in April 2019)

Program for Students Advancing from Master's Program  
of this Graduate School

Regular Program for Incoming Students from Other Schools

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. A broad range of basic engineering knowledge, advanced expertise on their own research fields, and ability to develop them in a flexible manner; and
2. Ability to logically present and discuss the significance and outcome of their research.

## ○ 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.

The educational goal of the doctoral program is to nurture human resources performing not only subjective research in the relevant specialized field but also self-enlightenment to active worldwide as a leader in the future.

They are also expected to have a bird's eye view based on social and international demands, having the ability to develop research project with their own ideas to summarize international level papers and to discuss and present at international conferences etc.

## ○ Diploma Policy

The Graduate School of Engineering, Tohoku University will award a doctoral degree in engineering to students who pass a review of doctoral thesis and 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. Skills to embark on a new research subject and perform a research from a panoramic perspective that takes social needs into account;
2. Skills to solve issues with unique ideas;
3. Thinking skills that allow for interdisciplinary application;
4. Linguistic proficiency sufficient to make presentations at international academic conferences, etc., research paper writing skills, and debating and

- communication skills;
- 5. Skills to provide research guidance; and
- 6. Basic skills to manage a research or project.

### ○ **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. Enable students to acquire skills to explore research subjects and perform researches from a panoramic perspective that takes social and international needs into account, skills to develop such research subjects by using unique ideas and compile the results into a world-class research paper, and thinking skills that allow for interdisciplinary applications;
2. Provide students with linguistic proficiency as well as debating and communication skills that are sufficient to make presentations and participate in discussions at international academic conferences, etc.; and
3. Equip students with skills that allow them to provide research guidance in their field of expertise.

## 1. Departments and Admission Quotas

| Department                             | Quota | Department                          | Quota |
|--|-------|-------------------------------------|-------|
| Mechanical Systems Engineering         | 10    | Applied Chemistry                   | 8     |
| Finemechanics                          | 11    | Chemical Engineering                | 7     |
| Robotics                               | 11    | Biomolecular Engineering            | 5     |
| Aerospace Engineering                  | 11    | Metallurgy                          | 7     |
| Quantum Science and Energy Engineering | 11    | Materials Science                   | 10    |
| Electrical Engineering                 | 8     | Materials Processing                | 8     |
| Communications Engineering             | 8     | Civil and Environmental Engineering | 12    |
| Electronic Engineering                 | 15    | Architecture and Building Science   | 8     |
| Applied Physics                        | 11    | Management Science and Technology   | 13    |
|  |       | Total                               | 174   |

**NOTE:** The above mentioned quotas include those of the admission which was held in August 2018.

## 2. Qualifications for Application

- Applicants who are currently in the first two years of a graduate studies program at this Graduate School and who expect to receive your master's degree by March 2018 may apply for **advancement to the three-year doctoral program**.
- Applicants other than the above for whom any of qualifications (1) to (8) below is true may apply for **admission as General Applicants from Other Schools**.
- 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, or who will hold the position of engineer, instructor or researcher after entering university, and for whom any of qualifications (1) to (8) 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 (1) to

(8) below is applicable.

The applicant must:

- (1) Have earned a master's degree or professional degree, or expect to earn such a degree by March 2019.
- (2) Have earned a degree equivalent to a master's degree or professional degree, or expect to earn such a degree by March 2019, in the graduate school of a foreign university.
- (3) Have earned a degree equivalent to a master's degree or professional degree, or expect to earn such a degree by March 2019, by taking correspondence courses in Japan offered by schools outside Japan.
- (4) Have earned a degree equivalent to a master's degree or professional degree, or expect to earn such a degree by March 2019, by completing a course 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 a graduate school in that country.
- (5) Have earned a degree equivalent to a master's degree or professional degree, or expect to earn such a degree by March 2019, by graduating a program of the United Nations University.
- (6) Have been recognized as having achieved at least the academic equivalent of a master's degree through an educational program offered at ① a foreign school, ② educational institutions which have the curriculum of a graduate program, or ③ the United Nations University, and have passed the equivalency examination and screening process as stipulated in Clause 2, Article 16 of the Standards for the Establishment of a Graduate School (Act No. 28, 1974).
- (7) Meet either of the following criteria for eligibility specified by the Minister of Education, Culture, Sports, Science and Technology:
  - (a) Have carried out research in a university or research institute, etc. for two or more years after graduating from university, and be recognized by this Graduate School as having achieved at least the equivalent academic abilities of someone with a master's degree on the basis of those research accomplishments.
  - (b) Have carried out research in a university or research institute, etc. for two or more years after completing 16 years of course studies overseas, or after completing, in Japan, 16 years of foreign school course studies by means of correspondence courses conducted by foreign schools, and be recognized by this Graduate School as having achieved at least the equivalent academic abilities of someone with a master's degree on the basis of those research accomplishments.

(8) Be aged 24 or above and, through individual admission qualification screening, be recognized by this Graduate School as having achieved at least the equivalent academic abilities of someone with a master's degree or professional degree.

**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 (7) should contact the head of the department in which they expect to major in advance regarding their qualifications to apply. The following documents will be needed for the procedure.

| Required documents                           | Notes  |
|--|--|
| Certification of research or work experience | Issued by the head of the place of work or research, certifying two or more years of engagement as engineer, instructor, researcher, etc. (any format; with official letterhead, signature, seal, etc.). |
| Summary of research or work                  | Research/work carried out during time spent working as an engineer, instructor, researcher, etc. (approximately 2 A4-size pages).  |
| Academic transcript                          | Issued by the dean of the school from which the applicant graduated.   |
| Other reference materials                    | Copies of technical papers, patent announcements, etc.   |

**Note4:** Applicants applying under qualification (8) 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.

[ I ] Applicants currently enrolled in the two-year master's program of this Graduate School applying for advancement to the three-year doctoral program

| Required documents                               | Notes  |
|--|--|
| Application for advancement                      | Use an official application form for this Graduate School.   |
| Examination admission ticket                     | Use an official application form for this Graduate School.   |
| Envelope for submitting application              | Fill in the sender's information on the back of the official envelope of this Graduate School and submit.                            |
| 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.  |
| 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. |

**Note 1:** The required documents when applying for admission to a department other than your current affiliated department are different from those indicated above. Please contact the Graduate Academic Affairs Section, Graduate School of Engineering in advance.

**Note 2:** Applicants who would like to remain employed while in school should submit written consent to take the exam (issued by head of workplace, any format, with official letterhead, signature, seal, etc.) in addition to the documents above.

[ II ] Applicants other than [ I ] applying under qualifications (1) to (5)

| 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 for this Graduate School. (If a recommendation cannot be submitted, instead submit a letter of acceptance by the faculty member.)  |
| Graduate school transcript  | Issued by the dean of your graduate school.  |
| <p>Original of TOEFL®Test /TOEIC® Public Test score sheets</p> <p>Valid tests:<br/>TOEFL®Test PBT,<br/>TOEFL iBT®Test ,<br/>TOEIC® Public Test<br/>(Listening &amp; 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, Biomolecular Engineering, or Architecture and Building Science departments.</p> <p>(1) General Applicants from Other Schools or applicants to the Special Selection Program for Foreign Students applying 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, or Management Science and Technology departments.</p> <p>(2) General Applicants to the Special Selection Program for Working Adults applying to study in the Metallurgy, Materials Science, or Materials Processing departments.</p> <p><b><u>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.</u></b></p> <p><b><u>The TOEFL institution code of the Graduate School of Engineering, Tohoku University is 8958.</u></b></p> <p><b><u>◆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.</u></b></p> <p><b><u>• Please submit all application documents including the score sheet within the submission period stated in "3. Period for Submission of Application."</u></b></p> <p><b><u>◆When submitting a score sheet for the 236th TOEIC public test:</u></b></p> |

|   |   |
|---|---|
|   | <p><u>• Please submit all application documents, except the score sheet, within the submission period stated in "3. Period for Submission of Application."</u></p> <p><u>• 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.</u></p> <p><u>(Note) Score sheets may not be replaced with more recent test results once submitted.</u></p> <p><u>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.</u></p> <p><u>(Note) Score sheets which can be submitted outside of the submission period are limited to score sheets for the 236th TOEIC public tests.</u></p> <p><u>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."</u></p> <p><u>*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.</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 your graduate school or by the NIAD (National Institution for Academic Degrees and University Evaluation).  |
| Undergraduate transcript                                    | Issued by the dean of the university from which graduated   |
| Duplicate of master's thesis                                | If thesis cannot be submitted, a summary of research shall be substituted (approximately 2 A4-size pages).  |
| *2 Photo ID and examination admission ticket                | Photo (4cm high × 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.  |

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| 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 photo should be submitted.
- \*3 - \*6 Not required.

**Note: Applicants for Regular program for Incoming Students from Other Schools who intend to remain employed while in school must submit written consent to take the exam (issued by head of workplace (Any format; with official letterhead, signature, seal, etc.))” in addition to the above.**

Applicants for the Special Selection Program for Working Adults and the Special Selection Program for Foreign Students must submit the following documents in addition to the above.

• **Special Selection Program for Working Adults**

| Required documents           | Notes  |
|------------------------------|--|
| Proof of employment          | Issued by head of workplace, showing employment duration, nature of work, and identity. (Any format; with official letterhead, signature, seal, etc.)<br><br>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 including   |

|  |   |
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|  | employment duration, nature of work, and identity, 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 graduate school or 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.  |

[III] Applicants applying under qualification (7)

| Required documents  | Notes   |
|---|---|
| Application for admission   | Use an official application form for this Graduate School.  |
| Research plan   | Approximately 1 A4-size page  |
| *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, submit instead a letter of acceptance by the faculty member.)  |
| Undergraduate transcript  | Issued by the dean of the university from which you graduated   |
| Original of TOEFL®Test /TOEIC® Public Test score sheets<br><br>Valid tests:<br>TOEFL®Test PBT ,<br>TOEFL iBT®Test ,<br>TOEIC® Public Test<br>(Listening & Reading Test) | Should be submitted by applicants corresponding to the following categories (1) or (2); not necessary for those applying for the Applied Chemistry, Chemical Engineering, Biomolecular Engineering, or Architecture and Building Science departments.<br><br>(1) General Applicants from Other Schools or applicants to the Special Selection Program for Foreign Students applying 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, or Management Science and Technology departments.<br><br>(2) General Applicants to the Special Selection Program for |

Working Adults applying to study in the Metallurgy, Materials Science, or Materials Processing departments.

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.

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 test:

• Please submit all 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

|   |   |
|---|---|
|   | <p><b><u>TOEIC public tests conducted before the 235th test outside of the stated submission period, or may be exempted from submitting a score sheet.</u></b></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 graduated or by the NIAD (National Institution for Academic Degrees and University Evaluation).   |
| Certification of research or work experience                | Issued by the head of the place of work or research, certifying two years or longer of engagement as engineer, instructor, researcher, etc. (Any format; with official letterhead, signature, seal, etc.)   |
| <b>*2</b> Photo ID and examination admission ticket         | Photo (5cm high × 4cm 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).   |
| 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.                         |
| <b>*3</b> Examination fee receipt                           | Use an official form for this Graduate School (Fill in applicant's name on both copies).  |
| <b>*4</b> Envelope for submitting application               | Fill in the sender's information on the back of the official envelope of this Graduate School and submit.   |
| <b>*5</b> 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.   |
| <b>*6</b> 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 photo should be submitted.
- \*3 - \*6 Not required.

**Note:** Applicants for Regular program for Incoming Students from Other Schools who intend to remain employed while in school must submit “written consent to take the exam (issued by head of workplace (Any format; with official letterhead, signature, seal, etc.))” in addition to the above.

Applicants for the Special Selection Program for Working Adults and the Special Selection Program for Foreign Students must submit the following documents in addition to the above.

- **Special Selection Program for Working Adults**

| Required documents           | Notes  |
|------------------------------|--|
| Proof of employment          | Issued by head of workplace, showing employment duration, nature of work, and identity. (Any format; with official letterhead, signature, seal, etc.)<br><br>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 including employment duration, nature of work, and identity; with official letterhead, signature, seal, etc.)       |

- **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) 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.  |

**[IV] Applicants applying under qualification (6) , (8)**

Please contact the Graduate Academic Affairs Section, Graduate School of Engineering.

- **About acquiring VISA for examination (Temporary Visitor VISA)**

Applicants for the Doctoral 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

### **Students entering from another school**

- (a) Admission fee: 282,000 yen (tentative)
- (b) Tuition (first semester): 267,900 yen (annual 535,800 yen) (tentative)

### **Advancing students**

- (a) Admission fee: None (students are expected to have completed the first two years of this Graduate School's doctoral program and as such will have already paid the admission fee )

(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 of 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 three years in order to receive their 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 doctoral students pay the same amount over the length of their studies as those enrolled in the standard three-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 advancement/admission application form. Note that this program is applicable only from the beginning of doctoral 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 child birth, child care and nursing care, etc., 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, 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 six years, but it is possible to request that the allowed 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) 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.
- (2) Submitted application documents and examination fees cannot be returned.
- (3) 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.
- (4) All other inquiries regarding application for admission should likewise be made to the Graduate Academic Affairs Section, Graduate School of Engineering.
- (5) When requesting printed application forms by mail, enclose a self-addressed return envelope for A4-sized documents (approximately 34cm x 24cm) 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.
- (6) Applicants desiring consultation regarding the need for special assistance or other consideration in taking the examination or conducting your studies should make 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 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 2019 Enrollment in Doctoral Program

Program for Students Advancing from Master's Program of this Graduate School

Regular Program for Incoming Students from Other Schools

Special Selection Programs for Working Adults and for Foreign Students

(A) Program for Students Advancing from Master's Program of this Graduate School

| Department   | Test Subjects                                  | Date and Time | Description | Remarks   |
|--|--|---------------|-------------|---|
| Mechanical Systems Engineering,<br>Finemechanics,<br>Robotics,<br>Aerospace Engineering, | Selection to be made separately by department. |               |             | Department inquiries: Mechanical and<br>Aerospace Engineering Academic Affairs<br>Section<br>Phone: 022-795-7030  |
| Quantum Science and Energy<br>Engineering  | Selection to be made separately by department. |               |             | Department inquiries: Mechanical and<br>Aerospace Engineering Academic Affairs<br>Section<br>Phone: 022-795-7030  |
| Electrical Engineering,<br>Communications Engineering,<br>Electronic Engineering         | Selection to be made separately by department. |               |             |   |
| Applied Physics  | Selection to be made separately by department. |               |             |   |
| Applied Chemistry,<br>Chemical Engineering,<br>Biomolecular Engineering,                 | Selection to be made separately by department. |               |             | Department inquiries: Chemistry and<br>Biomolecular Academic Affairs Section<br>Phone : 022-795-7205<br>Website:<br><a href="http://www.che.tohoku.ac.jp/index-j.html">http://www.che.tohoku.ac.jp/index-j.html</a> |
| Metallurgy,<br>Materials Science,<br>Materials Processing                                | Selection to be made separately by department. |               |             |   |

| Department                          | Test Subjects                                  | Date and Time  | Description    | Remarks  |
|-------------------------------------|--|--|----------------|--|
| Civil and Environmental Engineering | Interview                                      | Mon., Mar. 4 or<br>Tue., Mar. 5                                    |                | Time and place of the interview will be notified by the department.<br>Inquire with department for details.<br>Phone: 022-795-7489 (Civil Engineering and Architecture Academic Affairs Section) |
| Architecture and Building Science   | Screening of application document              |  | Research plans | Time and place of the interview will be notified by the department.<br>Department inquiries:<br>Civil Engineering and Architecture Academic Affairs Section<br>Phone 022-795-7489                |
|                                     | Interview                                      | Mon., Mar 4 or<br>Tue., Mar. 5 (time indicated by your department) |                |  |
| Management Science and Technology   | Selection to be made separately by department. |  |                |  |

(B) Regular Program for Incoming Students from Other Schools

| 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.                                  | (1) Written testing may be waived depending on the applicant's record as indicated on transcripts.<br>(2) On the scope of each subject, inquire with each department or consult the websites below.<br><a href="http://www.mech.tohoku.ac.jp/">http://www.mech.tohoku.ac.jp/</a><br><a href="http://www.qse.tohoku.ac.jp/">http://www.qse.tohoku.ac.jp/</a><br>(3) Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.<br>(4) Interviews are given only for those applicants who pass the written testing. When and how to notify the written test results will be announced on the first day of testing.<br><br>Department inquiries:<br>Mechanical and Aerospace Engineering Academic Affairs Section<br>Phone: 022-795-7030 |
|  | 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  |  |
|  | 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<br>*Choose any two of the above listed five subjects. The choice of subjects must be notified in advance through the department office. |  |
|  | Interview                        | Wed., Mar. 6 (time indicated by your department)   | Questions about your master's 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.   | <p>(1) Written testing may be waived depending on the applicant's record as indicated on transcripts.</p> <p>(2) On the scope of each subject, inquire with each department or consult the websites below.<br/> <a href="http://www.qse.tohoku.ac.jp/">http://www.qse.tohoku.ac.jp/</a></p> <p>(3) Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.</p> <p>(4) Interviews are given only for those applicants who pass the written testing. When and how to notify the written test results will be announced on the first day of testing.</p> <p>Department inquiries:<br/> Mechanical and Aerospace Engineering Academic Affairs Section<br/> Phone: 022-795-7030</p> |
|  | 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   |  |
|  | 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<br>*Choose any two of the above listed eight subjects. The choice of subjects must be notified in advance through the department office. |  |
|  | Interview                        | Wed., Mar. 6 (time indicated by your department)   | Questions about your master's thesis, etc. and research plans after entering this program.  |  |

| Department   | Test Subjects  | Date and Time  | Description   | Remarks  |
|--|----------------|--|---|--|
| Electrical Engineering,<br>Communications Engineering,<br>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.   | (1) Written testing may be waived depending on the applicant's record as indicated on transcripts.<br>(2) On the scope of each subject, inquire with your department or consult the website below.   |
|  | Basic subjects | Mon., Mar. 4, 9:30 to 11:30 a.m.                                 | Choose 2 questions from the following 6 areas: electromagnetics, electrical circuits, basic information science 1, basic information science 2, basic physics , basic math                  | <a href="http://www.ecei.tohoku.ac.jp/ec/ei_web/admission/exam_subject.html">http://www.ecei.tohoku.ac.jp/ec/ei_web/admission/exam_subject.html</a><br><u>examination</u>  |
|  | Interview      | Tue., Mar. 5 or Wed., Mar. 6 (time indicated by your department) | Approx. 20-minute presentation about your university education or master's thesis, and research plans after entering this program, etc.<br>Take three copies of support materials with you. | (3)Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.<br><br>Department inquiries:<br>Electronic Information System and Applied Physics Academic Affairs Section<br>Phone: 022-795-7186 |

| 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.   | <p>Note 1: Subjects (one, two, or none) may be designated by the applicant's prospective adviser.</p> <p>Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.</p> <p>Department inquiries:<br/>Electronic Information System and Applied Physics Academic Affairs Section<br/>Phone: 022-795-7186</p> |
|                 | 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.                                |  |
|                 | 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, and special field-specific subjects (note 1). |  |
|                 | Field-specific interview                      | Mon., Mar. 4, from 3:30 p.m.                             | .25-minute Summary presentation and oral test about master's thesis   |  |
|                 | Interview                                     | Tue., Mar. 5, from 9:00 a.m.                             | 10-minute Summary presentation and oral test about master's thesis  |  |
|                 | Specialized subjects                          | 150 minutes, from Mon., Mar. 4 to Tue., Mar. 5.          | Choice of 3 questions from total of 8 (2 each in chemical engineering, inorganic & physical chemistry, organic chemistry, biochemistry)   |  |
| English         | 60 minutes, from Mon., Mar. 4 to Tue., Mar. 5 |  |   |  |
| Interview test  | 30 minutes, from Mon., Mar. 4 to Tue., Mar. 5 | Summary presentation and oral test about master's thesis |   |  |

| Department  | Test Subjects                      | Date and Time                                 | Description   | Remarks   |
|---|------------------------------------|---|---|---|
| Metallurgy,<br>Materials Science,<br>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 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 time of application</p> <p>(2) English test may be waived for those completing their master’s program in this Graduate School.</p> <p>(3) Schedule etc. will be notified individually.</p> <p>*Regarding the details of TOEFL®/TOEIC® score requirements, and other inquiries, please contact the department.</p> <p><a href="http://www.material.tohoku.ac.jp/admission/index.html">http://www.material.tohoku.ac.jp/admission/index.html</a></p> <p>Phone: (Department head) +81(22)-795-7352, (Academic Affairs Section) +81(22)-795-7373</p> |
|   | General field-specific subjects    | 40 minutes, from Mon., Mar. 4 to Wed., Mar. 6 | Oral test in physics, chemistry, and field-specific subjects.   |   |
|   | Designated field-specific subjects | 40 minutes, from Mon., Mar. 4 to Wed., Mar. 6 | Oral presentation about master's thesis or research conducted after completing master's degree.                               |   |

| 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.                    | (1) Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.<br>(2) Time and place and of the examination of the oral test and the interview will be notified by the department.<br>(3) Inquire with department for details.<br>Phone: 022-795-7489 (Civil Engineering and Architecture Academic Affairs Section) |
|                                     | Oral test     | Mon., Mar. 4   | Within. 15-minute presentation on master's thesis (completed or in progress; may use PC), followed by questions about the presentation contents. |  |
|                                     | Interview     | Mon., Mar. 4 or Tue., Mar. 5                                     |  |  |
| Architecture and Building Science   | Oral test     | Mon., Mar. 4 or Tue., Mar. 5 (time indicated by your department) | Presentation on master's thesis or equivalent and research plans (may use PC), followed by questions about presentation contents.                | Time and place of the interview will be notified by the department.<br><br>Department inquiries:<br>Civil Engineering and Architecture Academic Affairs Section<br>Phone 022-795-7489  |
|                                     | Interview     | Mon., Mar. 4 or Tue., Mar. 5 (time indicated by your department) | At the same time of the oral test.   |  |
| Management Science and Technology   | English       |  | At the time of application, submit an original TOEFL® or TOEIC® score sheet no older than two years before the entrance exam.                    | Time and place for the oral test will be notified by the department.<br><br>Department inquiries:<br><br>Office: 022-795-3863<br>Web site:<br><a href="http://www.most.tohoku.ac.jp">http://www.most.tohoku.ac.jp</a>  |
|                                     | Short essay   | 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.                                  |  |
|                                     | Oral test     | Tue., Mar. 5 from 9:00 a.m. or Wed., Mar. 6 from 9:00 a.m.       | Presentation on research up to now and plans for research after entering this program, followed by questions on presentation contents, etc.      |  |

(C) Special Selection Program for Working Adults

| Department   | Test Subjects | Date and Time   | Description  | Remarks  |
|--|---------------|---|--|--|
| Mechanical Systems Engineering, Finemechanics, Robotics, Aerospace Engineering | Interview     | Tue., Mar. 5 or Wed., Mar. 6<br>(time indicated by your department) | Questions about your studies up to now and research plans after entering this program.<br>English ability may also be asked about.                         | (1) Written testing may be waived depending on the applicant's record as indicated on transcripts.<br>(2) On the scope of each subject, inquire with your department or consult the websites below.<br><a href="http://www.mech.tohoku.ac.jp/">http://www.mech.tohoku.ac.jp/</a><br><br>Department inquiries: Mechanical and Aerospace Engineering Academic Affairs Section<br>Phone: 022-795-7030 |
| Quantum Science and Energy Engineering   | Interview     | Tue., Mar. 5 or Wed., Mar. 6<br>(time indicated by your department) | Questions about your studies up to now and research plans after entering this program.<br>English ability may also be asked about.                         | (1) Written testing may be waived depending on the applicant's record as indicated on transcripts.<br>(2) On the scope of each subject, inquire with your department or consult the websites below.<br><a href="http://www.qse.tohoku.ac.jp/">http://www.qse.tohoku.ac.jp/</a><br><br>Department inquiries: Mechanical and Aerospace Engineering Academic Affairs Section<br>Phone: 022-795-7030   |
| Electrical Engineering, Communications Engineering, , Electronic Engineering   | Interview     | Tue., Mar. 5 or Wed., Mar. 6<br>(time indicated by your department) | Approx. 20-minute presentation about studies up to now and research plans after entering this program.<br>Take three copies of support materials with you. | Department inquiries: Electronic Information System and Applied Physics Academic Affairs Section<br>Phone: 022-795-7186  |
| Applied Physics  | Interview     | Tue., Mar. 5, from 9:00 a.m.  | 10 minutes Research presentation and oral test   | A field-specific interview will take place prior to the entrance exam (late February).<br>Department inquiries: Electronic Information System and Applied Physics Academic Affairs Section<br>Phone: 022-795-7186  |

| Department  | Test Subjects                          | Date and Time  | Description   | Remarks  |
|---|--|--|---|--|
| Applied Chemistry,<br>Chemical<br>Engineering,<br>Biomolecular<br>Engineering | Interview test                         | 30 minutes, from<br>Mon., Mar. 4 to<br>Tue., Mar. 5.       | Research presentation and oral<br>test  | Department inquiries: Chemistry and<br>Biomolecular Academic Affairs Section<br>Phone: 022-795-7205<br>Website:<br><a href="http://www.che.tohoku.ac.jp/index-j.html">http://www.che.tohoku.ac.jp/index-j.html</a>   |
| Metallurgy,<br>Materials Science,<br>Materials Processing                     | English                                |  | At the time of application, submit<br>an original TOEFL® or TOEIC®<br>score sheet no older than two<br>years before the entrance exam.                        | (1) Submitted originals of TOEFL®/TOEIC®<br>score sheets will not be returned. TOEFL®<br>“Examinee Score Report” only can be returned<br>at the entrance examination day if you apply<br>at the time of application  |
|   | General field-<br>specific subjects    | 40 minutes, from<br>Mon., Mar. 4 to<br>Wed, Mar. 6         | Oral test in physics, chemistry,<br>and field-specific subjects.  | (2) Submission of TOEFL® or TOEIC® -score<br>sheet may be waived for qualified applicants.<br>You should ask your prospective academic<br>advisor for details.   |
|   | Designated field-<br>specific subjects | 40 minutes, from<br>Mon., Mar. 4 to<br>Wed., Mar. 6        | Oral presentation about research<br>conducted up to now or master's<br>thesis.  | (3) For applicants completing their doctoral<br>program in less than the standard three-year<br>period, the test of general field-specific<br>subjects is waived, and 65 minutes<br>presentation on designated field-specific<br>subjects is conducted.<br>(4) Schedule etc. will be notified individually.<br>*Regarding the details of TOEFL®/TOEIC®<br>score requirements, and other inquiries,<br>please contact the department.<br><a href="http://www.material.tohoku.ac.jp/admission/index.html">http://www.material.tohoku.ac.jp/admission/index.html</a><br>Phone: (Department head) +81(22)-795-7352,<br>(Academic Affairs Section) +81(22)-795-7373 |
| Civil and<br>Environmental<br>Engineering                                     | Short essay                            | Mon., Mar. 4, 9:30<br>to 11:00 a.m.                        | Topic related to civil and<br>environmental engineering   | (1) Time and place of the oral test and the<br>interview will be notified by the department.<br>(2) Use of calculator, dictionaries is not<br>allowed.<br>(3) Inquire with department for details.<br>Phone: 022-795-7489 (Civil Engineering and<br>Architecture Academic Affairs Section)   |
|   | Oral test                              | Mon., Mar. 4   | Within. 15-minute presentation<br>on research or work at the place<br>of employment (may use PC),<br>followed by questions about the<br>presentation contents |  |
|   | Interview                              | Mon., Mar. 4   |   |  |
| Architecture and<br>Building Science  | Oral test                              | Mon., Mar. 4 or<br>Tue., Mar. 5 (time<br>indicated by your | Presentation on research plans<br>(may use PC), followed by<br>questions about presentation   | Time and place of the interview will be<br>notified by the department.   |

| Department                              | Test Subjects | Date and Time   | Description  | Remarks  |
|---|---------------|---|--|--|
|   |               | department)   | contents.  | Department inquiries:<br>Civil Engineering and Architecture Academic<br>Affairs Section<br>Phone 022-795-7489  |
|   | Interview     | Mon., Mar. 4 or<br>Tue., Mar. 5 (time<br>indicated by your<br>department) | At the same time of the oral test.   |  |
| Management<br>Science and<br>Technology | Oral test     | Tue., Mar. 5 from<br>9:00 a.m. or Wed.,<br>Mar. 6 from 9:00<br>a.m.       | Presentation on research work up<br>to now and plans for research<br>after entering this program,<br>followed by questions on<br>presentation contents, etc. | Time and place of the oral test will be notified<br>by department.<br><br>Department inquiries:<br>Office: 022-795-3863<br>Website:<br><a href="http://www.most.tohoku.ac.jp">http://www.most.tohoku.ac.jp</a> |

(D) 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.                                   | <p>(1) Written testing may be waived depending on the applicant's record as indicated on transcripts.<br/>                     (2) On the scope of each subject, inquire with your department or consult the websites below.<br/> <a href="http://www.mech.tohoku.ac.jp/">http://www.mech.tohoku.ac.jp/</a><br/>                     (3) Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.<br/>                     (4) Interviews are given only for those applicants who pass the written testing. When and how to notify the written test results will be announced on the first day of testing.</p> <p>Department inquiries: Mechanical and Aerospace Engineering Academic Affairs Section<br/>                     Phone: 022-795-7030</p> |
|  | 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   |   |
|  | 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-<br>*Choose any two of the above listed five subjects. The choice of subjects must be notified in advance through the department office. |   |
|  | Interview                        | Wed., Mar. 6 (time indicated by your department)   | Questions about your master's 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.   | <p>(1) Written testing may be waived depending on the applicant's record as indicated on transcripts.</p> <p>(2) On the scope of each subject, inquire with your department or consult the websites below.<br/> <a href="http://www.qse.tohoku.ac.jp/">http://www.qse.tohoku.ac.jp/</a></p> <p>(3) Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.</p> <p>(4) Interviews are given only for those applicants who pass the written testing. When and how to notify the written test results will be announced on the first day of testing.</p> <p>Department inquiries: Mechanical and Aerospace Engineering Academic Affairs Section<br/> Phone: 022-795-7030</p> |
|  | 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   |   |
|  | 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<br>*Choose any two of the above listed eight subjects. The choice of subjects must be notified in advance through the department office. |   |
|  | Interview                        | Wed., Mar. 6 (time indicated by your department)   | Questions about your master's 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 consult the website below.<br/> <a href="http://www.ecei.tohoku.ac.jp/ecei_web/admission/exam_subject.html">http://www.ecei.tohoku.ac.jp/ecei_web/admission/exam_subject.html</a></p> <p>Calculators or devices such as watches and 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<br/> Phone: 022-795-7186</p> |
|  | Basic subjects | Mon., Mar. 4, 9:30 to 11:30 a.m.                                       | Choice of 2 questions from the following 6 areas:<br>electromagnetics, electrical circuits, basic information science 1, basic information science 2, basic physics , basic math   |  |
|  | Interview      | Tue., Mar. 5 or<br>Wed., Mar. 6<br>(time indicated by your department) | Approx. 20-minute presentation about your university education or master's thesis, and research plans after entering this program, etc.<br>Take three copies of support materials with you.<br>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.  | <p>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).</p> <p>Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.</p> <p>Note 1: Subjects (one, two, or none) may be designated by the applicant's prospective adviser.</p> <p>Department inquiries: Electronic Information System and Applied Physics Academic Affairs Section<br/>Phone: 022-795-7186</p> |
|                 | 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.   |   |
|                 | 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, and special field-specific subjects (note 1) . English translations provided as necessary. |   |
|                 | Interview            | Tue., Mar. 5, from 9:00 a.m.      | 10 minutes Research presentation and oral test   |   |

| Department  | Test Subjects                          | Date and Time  | Description   | Remarks  |
|---|--|--|---|--|
| Applied Chemistry,<br>Chemical<br>Engineering,<br>Biomolecular<br>Engineering | Basic subjects                         | 90 minutes, from<br>Mon., Mar. 4 to<br>Tue., Mar. 5. | Choice of 1 question from Basic I<br>(inorganic chemistry, analytical<br>chemistry, physical chemistry),<br>Basic II (organic chemistry), and<br>math | Department inquiries: Chemistry and Biomolecular<br>Academic Affairs Section<br>Phone: 022-795-7205<br>Website:<br><a href="http://www.che.tohoku.ac.jp/index-j.html">http://www.che.tohoku.ac.jp/index-j.html</a>   |
|   | Specialized<br>subjects                |  | Applicant's field of specialty  |  |
|   | Interview test                         | 30 minutes, from<br>Mon. Mar. 4 to<br>Tue. Mar. 5.   | Summary presentation and oral<br>test about master's thesis.  |  |
| Metallurgy,<br>Materials Science,<br>Materials<br>Processing                  | English                                |  | At the time of application, submit<br>an original TOEFL® or TOEIC®<br>score sheet no older than two<br>years before the entrance exam.                | (1) Submitted originals of TOEFL®/TOEIC® score<br>sheets will not be returned. TOEFL® “Examinee Score<br>Report” only can be returned at the entrance<br>examination day if you apply at the time of application<br>(2) Submission of TOEFL®/TOEIC® score sheet may be<br>waived for qualified applicants. You should ask your<br>prospective academic adviser for details.<br>(3) Schedule etc. will be notified individually.<br><br>*Regarding the details of TOEFL®/TOEIC® score<br>requirements, and other inquiries, please contact the<br>department.<br><a href="http://www.material.tohoku.ac.jp/admission/index.html">http://www.material.tohoku.ac.jp/admission/index.html</a><br>Phone: (Department head) +81(22)-795-7352,<br>(Academic Affairs Section) +81(22)-795-7373 |
|   | General field-<br>specific subjects    | Mon., Mar. 4 to<br>Wed., Mar. 6<br>(40 minutes)      | Oral test in physics, chemistry,<br>and field-specific subjects.  |  |
|   | Designated field-<br>specific subjects | Mon., Mar. 4 to<br>Wed., Mar. 6<br>(40 minutes)      | Oral presentation about research<br>to date or master's thesis (in<br>English or Japanese).   |  |

| 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) Inquire with prospective adviser regarding the fields of specialized subjects and the number of questions from each field.</p> <p>(2) Use of calculator, dictionaries, etc. is not allowed.</p> <p>(3) Time and place for the oral test will be notified by the department.</p> <p>(4) Inquire with department for details.<br/>Phone: 022-795-7489 (Civil Engineering and Architecture Academic Affairs Section)</p> |
|                                     | Oral test            | Mon., Mar. 4                       | Within. 15-minute presentation on master's thesis (completed or in progress; may use PC), followed by questions about the presentation contents  |  |
|                                     | Specialized subjects | Mon., Mar. 4,<br>2:30 to 4:30 p.m. | <p>Choice of 3 questions from 4 questions on the test.</p> <p>Prospected adviser selects 1-4 fields from the list below, considering applicant's background, filed of specialization and research plan. In total 4 questions from the selected fields will be on the test.</p> <ol style="list-style-type: none"> <li>1. Mathematics (calculus, linear algebra, probability and statistics)</li> <li>2. Mechanics of Elastic Bodies and Structures</li> <li>3. Geotechnical and Concrete Engineering</li> <li>4. Hydraulics</li> <li>5. Water Quality and Environment</li> <li>6. Biological and Ecological Engineering</li> <li>7. Transportation Engineering and Planning</li> <li>8. Operations Research</li> </ol> |  |
|                                     | Interview            | Mon., Mar. 4<br>or Tue., Mar. 5    |  |  |

| Department                        | Test Subjects | Date and Time  | Description   | Remarks   |
|-----------------------------------|---------------|--|---|---|
| Architecture and Building Science | Oral test     | Mon., Mar. 4 or Tue., Mar. 5 (time indicated by your department) | Presentation on master's thesis or equivalent and research plans (may use PC), followed by questions about presentation contents.           | Time and place for the oral test will be notified by the department.<br><br>Department inquiries:<br>Civil Engineering and Architecture Academic Affairs Section<br>Phone 022-795-7489                                |
|                                   | Interview     | Mon., Mar. 4 or Tue., Mar. 5 (time indicated by your department) | At the same time of the oral test.  |   |
| Management Science and Technology | English       |  | At the time of application, submit an original TOEFL® or TOEIC® score sheet no older than two years before the entrance exam.               | Time and place for the oral test will be notified by the department.<br><br>Department inquiries:<br><br>Office: 022-795-3863<br>Web site:<br><a href="http://www.most.tohoku.ac.jp">http://www.most.tohoku.ac.jp</a> |
|                                   | Short essay   | 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.                             |   |
|                                   | Oral test     | Tue., Mar. 5 from 9:00 a.m. or Wed., Mar. 6 from 9:00 a.m.       | Presentation on research up to now and plans for research after entering this program, followed by questions on presentation contents, etc. |   |

|      |  |    |        |
|------|--|----|--------|
| 志望専攻 |  | 専攻 | 受験記号番号 |
|------|--|----|--------|

\* Please DO NOT fill in the above blanks

FORM (1/4)

**In A4 sized (21cm × 29.5cm) printing**

2019 Academic Year

APPLICATION FOR SPRING ENROLLMENT IN DOCTORAL PROGRAM

平成 31 年度

博士課程後期 3 年の課程編入学願書 (For entry in April 2019)

(平成 31 年 4 月編入学)

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

- Program for Students Advancing from Master's Program of this Graduate Schools (一般選抜 (進学))
- Regular Program for Incoming Students from Other Schools (一般選抜 (編入学))
- Special Selection Program for Working Adults (社会人特別選抜 (編入学))
- Special Selection Program for Foreign Students (外国人留学生等特別選抜 (編入学))

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 \_\_\_\_\_, \_\_\_\_\_  
 (姓名 (自国語)) (Family name) (First name) (Middle name)

(Gender)  
 Male (男)  
 Female (女)

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

2. Nationality \_\_\_\_\_  
 (国籍)

3. Date of birth (生年月日)

19  
 Year (年) Month (月) Day (日) Age (as of April 1, 2019)  
 年齢 (2019 年 4 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  resign  
(入学後) (在職のまま) (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)

Conferred Degree: a) Bachelor's Degree b) Master's Degree c) Doctoral Degree  
(取得学位) (学士) (修士) (博士)

## 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(編入学)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 235th.  
(TOEFL スコアシートまたは第235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 236th TOEIC public test by a predetermined method by Tuesday, January 22, 2019.  
(第236回TOEIC公開テストのスコアシートを所定の方法で平成31年1月22日(火)までに提出します。)

## 10. Educational background (学歴)

|  | Name and Address of School<br>(学校名及び所在地) | Year and Month<br>of Entrance and<br>Completion<br>(入学及び卒業年月) | Amount of time<br>spent at the<br>school attended<br>(修学年数) | Diploma or Degree awarded,<br>Major subject<br>(学位・資格, 専攻科目) |
|--|--|---|---|--|
| Elementary Education<br>(初等教育)<br><br>Elementary School<br>(小学校)                                       | Name<br>(学校名)<br><br>Location<br>(所在地)   | From<br>(入学)<br><br>To<br>(卒業)                                | years<br>(年)<br><br>and<br>months<br>(月)                    |  |
| Secondary Education<br>(中等教育)<br><br>Lower Secondary<br>School<br>(中学)                                 | Name<br>(学校名)<br><br>Location<br>(所在地)   | From<br>(入学)<br><br>To<br>(卒業)                                | years<br>(年)<br><br>and<br>months<br>(月)                    |  |
| Upper Secondary<br>School<br>(高校)  | Name<br>(学校名)<br><br>Location<br>(所在地)   | From<br>(入学)<br><br>To<br>(卒業)                                | years<br>(年)<br><br>and<br>months<br>(月)                    |  |
| Higher Education<br>(高等教育)<br><br>Undergraduate Level<br>(大学)  | Name<br>(学校名)<br><br>Location<br>(所在地)   | From<br>(入学)<br><br>To<br>(卒業)                                | years<br>(年)<br><br>and<br>months<br>(月)                    |  |
| Graduate Level<br>(大学院)  | Name<br>(学校名)<br><br>Location<br>(所在地)   | From<br>(入学)<br><br>To<br>(卒業)                                | years<br>(年)<br><br>and<br>months<br>(月)                    |  |
| Total years of schooling mentioned above<br>(以上を通算した全学校教育修学年数)<br>as of April 1, 2019<br>(2019年4月1日現在) |  |   | years<br>(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<br>(勤務先及び所在地) | Period of employment<br>(勤務期間) | Position<br>(役職名) | Type of work<br>(職務内容) |
|--|--------------------------------|-------------------|------------------------|
|  | From<br>To                     |                   |                        |
|  | From<br>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)

\_\_\_\_\_

(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)      |

\* Fill the receiver's name and address of "Temporary Visitor VISA (for examination)"

|  |
|--|
| To: _____                                    |
| Address: _____                               |
| _____  |
| Postal cpde _____ TEL _____                  |
| ("Temporary Visitor VISA (for examination)") |