

2023 Academic Year

Application for Spring Enrollment in Doctoral Program

(for advancement/entry in April 2023)

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 2022

Graduate School of Engineering, Tohoku University

○ Admission Policy

The Tohoku University Graduate School of Engineering aims to develop researchers who think for themselves and carry out research with ethical standards and courage to realize a safe, secure, and prosperous society, and who can play a role in developing and innovating future science and technology with abundant creativity and research capability, based on profound knowledge and broad perspectives on nature and human beings. It also aims to develop professional engineers who can contribute to the sustainable development of society with not only highly specialized knowledge but also long-term perspectives and an international outlook. Specifically, we welcome students with the following academic abilities and skills, and who aspire to be creative, highly proficient researchers and professional engineers who contribute to the sustainable development of society:

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

For this reason, the Graduate School of Engineering conduct Regular Selection, Special Selection for Working Adults, Special Selection for Foreign Students, and Selection for International Degree Courses Offering Education in English, to select students with an emphasis on the abilities and qualities necessary to carry out research in line with our educational philosophies and goals.

Applicants for Regular Selection and Special Selection for Foreign Students will be selected through an assessment of a written examination etc. that evaluates basic knowledge and specialized knowledge on engineering, and language skill, and an oral interview that assesses their aptitude. The selection will be made with an emphasis on the results of the written examination.

For Special Selection for Working Adults, the selection will be based on a comprehensive evaluation of their research plan and motivation. If necessary, basic and specialized knowledge on engineering and an evaluation of their essay will also be considered in the selection process

○ 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. Language proficiency as well as research paper writing, debating and communication skills that are sufficient to make presentations at international academic conferences, etc.;
5. Skills to provide research guidance; and
6. Basic skills to manage a research or project.

○ **Curriculum Policy**

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

1. Enable students to acquire skills to explore research subjects and perform research 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 language 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 fields of expertise.

In order to execute the above policies, the Graduate School of Engineering offers Common Subjects, and each department offers Interdisciplinary Basic Subjects, Major General Subjects, and Related Subjects. The overall educational curriculum of the master's and doctoral program is presented in the curriculum map. The Interdisciplinary Basic Subjects are mainly provided in lecture-based courses, and the Major General Subjects consists of special lectures, special seminars, doctor course seminars, etc. The subjects in lecture-based courses are provided for the purpose of acquiring a wide range of basic knowledge and advanced specialized knowledge in each major. A syllabus is prepared for each subject to clearly state the educational content, achievement methods, guidelines for self-study, etc. The Doctor Course Seminar is provided to foster the ability to conduct and develop advanced research, and acquire a wide perspective, language skill and debating skill.

In the lecture-based subjects, the faculty member in charge of the lecture will assess the student's basic knowledge, basic academic skill, specialized knowledge, etc. by using regular examinations, reports, etc. Details of the grade evaluation method are described in the syllabus for each subject. In the Doctor Course Seminar, the academic advisor will evaluate the following abilities based on research activity in the laboratory, presentation at domestic and international conferences, the doctor thesis and its defense.

- 1) Ability to design and conduct research or projects
- 2) Ability to investigate and analyze academic papers and technical materials
- 3) Basic academic skills necessary to write academic papers to meet international standards
- 4) Ability to evaluate research in related fields
- 5) Presentation and communication skills sufficient to present research results at international conferences
- 6) Ability to advise and guide research for undergraduate and master's course students

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 2022.

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 2023 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 2023.
- (2) Have earned a degree equivalent to a master's degree or professional degree, or expect to earn such a degree by March 2023, 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 2023, 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 2023, 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 2023, 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 by Friday, December 9, 2022.

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 office of department for which you wish to apply (see the Remarks of Appendix) in advance.

3. Online Application Procedures and Application Period

The general flow for online applications is as follows.

1. Confirming Application Guidelines and Obtaining the Necessary Documents



- Please carefully check the information in these Application Guidelines, including the Qualifications for Admission and the necessary application documents.
- For application documents, such as certificates of (expected) graduation, transcripts, and other support documentation, please request them in advance from the university you attended.

2. Paying the Examination Fee (Not applicable for those who are applying for advancement)



- Follow the directions on the Application Guidelines. Use an ATM (at a financial institution or convenience store) or online banking to pay via transfer to the designated bank account. A prescribed fee will be charged when making the payment (to be borne by the applicant).
- After making the transfer, attach documents that show the payee's account information, the amount, the date of transfer, and the name of the payer—such as a copy of the ATM statement or a copy of the screen of the completed Internet banking transfer—to the Payment Confirmation for Examination Fee, and upload the scanned data to the TAO Application Registration website.

3. Registering an Application via the TAO Application Registration Website



- Access The Admissions Office website, and after creating an account, fill in the required applicant information. <https://admissions-office.net/en/portal/>
- Uploading certificates and other documents is also done at the time of application registration.
- **You cannot change your registered information after registration.** When registering, fill in the information carefully while checking to ensure that there are no errors.
- Please be sure that the submission of application is completed on TAO system as below.

Complete my application

[Note]

All data will become uneditable after the completion of application.

Please check again if all entries are completed.

☒ Apply after you review the above

CancelYes



The Admissions Office <small>Offering the choice of colleges from the world map</small>			
Search schools	Admission Schemes	Profile	Applications
My applications			
Incomplete		Completed	
Application status	Application ID	Admission Scheme	Application Deadline
☆ Application completed	28574	Tohoku University / Graduate School of Engineering / All Departments (Master's Programs) / 一般選抜	

Applicants should use The Admissions Office (hereinafter referred to as TAO), the designated online application system, to complete the following application procedures within the application period.

The application period is from 9:00 on Wednesday, January 4, 2023 until 23:59 on Friday, January 13, 2023 (Japan time).

[Methods]

1. Access the following URL and click the Member Registration button. The account creation screen will appear, so fill in the necessary information and create an account.

URL: <https://admissions-office.net/en/portal>

2. After creating your account, enter your e-mail address and password to log in from the above URL. Use the Application Schemes menu to search for “Tohoku University / Graduate School of Engineering / Three-Year Doctoral Program / April Entry,” then follow the TAO system’s directions and the directions below to apply.
3. Please submit the following documents as PDF files (except for the English score sheet) by uploading them to your application forms.

In principle, the certificates to be submitted should be in Japanese or English. In the case of certificates in other languages, a Japanese or English translation, corroborated by the issuer of each certificate, should be attached.

If it is not possible to handle certificates in the way listed above, contact the Graduate Academic Affairs Section in the Academic Affairs Division of the Graduate School of Engineering and School of Engineering.

*Once application documents have been submitted, we will not accept any replacements.

*Withdrawal will not be accepted after an application has been received.

*Those who have made false declarations in their application documents may have their entrance approval cancelled, even after enrollment.

*Those who pass the tests and are admitted must submit original copies of their transcripts and graduation (or completion) certificates (not required for graduates of the Graduate School of Engineering) at the time of admission procedures. In addition, those who have applied under the qualification for admission (2) (e.g., those who have completed (or expect to complete) an advanced course at a college of technology or junior college, etc.) are also required to submit a "certificate of degree conferment." Your admission to the Graduate School may be cancelled if there are any discrepancies between the documents uploaded to the online application system and the original documents submitted at the time of admission procedures, or if you are

unable to submit the original certificates.

[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	Fill out the application form for admission in the online application system.
CV	Download the prescribed CV file from the following URL. https://www.eng.tohoku.ac.jp/english/admission/procedure/doctoral.html
Examination Admission Ticket (受験票)	Download the prescribed examination admission ticket file from the following URL. https://www.eng.tohoku.ac.jp/english/admission/procedure/doctoral.html
Address label	Fill in the necessary information on the address label in the online application system.
Written consent to take exam	<u>※Only for those intending to remain employed while in school.</u> Issued by head of workplace, showing employment duration, nature of work, and identity. (Any format; with official letterhead, signature, seal, etc.)

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.

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

Required documents	Notes
Application for admission	Fill out the application form for admission in the online application system.
CV	Download the prescribed CV file from the following URL. https://www.eng.tohoku.ac.jp/english/admission/procedure/doctoral.html
Letter of Recommendation or Letter of Acceptance (推薦書・承諾書)	Prepared by the expected supervisor, using an official form for this Graduate School. The official form can be downloaded from the website: https://www.eng.tohoku.ac.jp/english/admission/procedure/doctoral.html *If a Letter of Recommendation cannot be submitted, submit instead a Letter of Acceptance by the faculty member.

	<p>*Please be sure to submit a Letter of Recommendation those who apply for the Department of Metallurgy, Materials Science, or Materials Processing.</p>
Graduate school transcript	<p>Issued by the dean of your graduate school.</p>
<p>TOEFL®Test /TOEIC® Public Test score sheets</p> <p>Valid tests:</p> <p>TOEFL®Test PBT, TOEFL iBT®Test , TOEIC® Public Test (Listening & Reading Test)</p>	<p>Should be submitted by applicants corresponding to the following categories (1) or (2); not necessary for those applying to the Applied Chemistry, Chemical Engineering, 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>◆When submitting a score sheet for the 310 or 311th TOEIC public test:</p> <ul style="list-style-type: none"> • Please submit all other application documents, except the score sheet, within the submission period. • <u>Please submit the score sheet by Wednesday, January 25.</u> We will let you know how you should submit this score later. <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 311th TOEIC public test after submitting a score sheet for the 309th 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 310 or 311th TOEIC public tests.</u></p> <p><u>Example: You may not submit a score sheet for the 309th 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>(Note) There are required scores for those applying under the Special Selection Program for Foreign students to study in the Mechanical Systems Engineering, Finemechanics, Robotics, and Aerospace Engineering. For details, please see the appendix.</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 309th TOEIC public test or other TOEIC public tests conducted before the 309th 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
Copy of master's thesis	If thesis cannot be submitted, a summary of research shall be substituted (approximately 2 A4-size pages).
Examination Admission Ticket and Photo ID Form (受験票、写真票)	<p>Download the prescribed examination admission ticket and photo ID form files from the following URL.</p> <p>https://www.eng.tohoku.ac.jp/english/admission/procedure/doctoral.html</p> <p>The photo ID form should include an image file of a photograph showing the upper body of the applicant, facing forward with no hat, and have been taken within three months of application.</p>
Residence Record	※Only for foreign applicants already residing in Japan whose period of stay is over 90 days.(The residence record should be issued within 3 months and indicate residence status without Individual Number.)
<p>Examination fee</p> <p>Please pay 30,000 yen By January 12, and submit attached "Payment Confirmation of Examination Fees"</p>	<p>(1) Download the prescribed form files of "Payment Confirmation of Examination Fees" from the following URL: https://www.eng.tohoku.ac.jp/english/admission/procedure/doctoral.html</p> <p>(2) Make a payment by ATM or Internet Banking Transaction and attach a copy of ATM transaction statement or evidence of Internet Banking Transaction to the "Payment Confirmation of Examination Fees"</p> <p>* Sender's name should be the applicant's name in Katakana. * Bank transfer fee should be paid by the applicant. * Only domestic banking transfer is accepted.</p> <p>Amount(金額): 30,000 yen Payment Deadline(納入期限): January 12, 2023 Bank(銀行): Mitsubishi UFJ Bank (三菱UFJ 銀行) Bank Code: 0005 Branch(支店): Wakatake-shiten(わかたけ支店) Branch Code: 809 Account Type(預金種別): Futsuu(普通) Account Number(口座番号): 2259225 Account Holder(口座名義): Kokuritsu Daigaku-houjin Tohokudaigaku(国立大学法人東北大学) Account Holder in Kana(カナ): タﾞイﾄﾞｸﾎｸﾀﾞｲｶﾞｸ ﾋｻﾞﾞｸ</p>

	<p>(3) MEXT scholarship recipients do not need to pay this fee. If you wish to apply for examination fee waiver due to the domestic disasters, please see the following website: https://www.eng.tohoku.ac.jp/admission/grad/disaster.html</p> <p>(4) This banking information is only valid within Japan. If you live overseas, please contact the Graduate Academic Affairs Section in advance.</p>
Address label	Fill in the necessary information on the address label in the online application system.
Written consent to take exam	<p>*Required only for those intending to remain employed while in school. Issued by head of workplace, showing employment duration, nature of work, and identity. (Any format; with official letterhead, signature, seal, etc.)</p> <p>(Note) Those who passed the Special Selection Program for Working Adults but are not employed at the time of admission and have been employed in the past are required to submit a "Certificate of Employment" at the time of the enrollment procedures. The certificate must be issued by the head of the organization, stating the period of employment, job description, and status (with company seal, etc., and in any format).</p>

In addition to the above documents, submit the following documents required to the Program you wish to apply.

• **Regular Program for Incoming Students from Other Schools**

Required documents	Notes
Proof of Japanese language proficiency	Foreign students or those who received a university education overseas who wish to apply to the Mechanical Systems Engineering, Finemechanics, Robotics, and Aerospace Engineering are required to submit this, which is prepared by a Japanese instructor or the prospective professor (any format).

- **Special Selection Program for Foreign Students**

Required documents	Notes
Recommendation Letter	Prepared by a supervising faculty member or equivalent from your graduate school or university (any format).
Proof of Japanese language proficiency	<p>Prepared by a Japanese instructor or the supervising faculty member etc. (any format).</p> <p>Not necessary for those applying to the Mechanical Systems Engineering, Finemechanics, Robotics, or Aerospace Engineering.</p> <p>Not necessary for those applying for the Department of Quantum Science and Energy Engineering without Japanese proficiency</p> <p>※ Those who wish to study in the Mechanical Systems Engineering, Finemechanics, Robotics, and Aerospace Engineering in Japanese language should apply to Regular Doctoral Program.</p>

Other reference materials such as Papers and Reports to demonstrate academic ability may be uploaded as PDF files.

[III] Applicants applying under qualification (7)

Required documents	Notes
Application for admission	Fill out the application form for admission in the online application system.
CV	Download the prescribed CV file from the following URL. https://www.eng.tohoku.ac.jp/english/admission/procedure/doctoral.html
Research plan	Approximately 1 A4-size page
Letter of Recommendation or Letter of Acceptance (推薦書・承諾書)	<p>Prepared by the expected supervisor, using an official form for this Graduate School. The official form can be downloaded from the website:</p> <p>https://www.eng.tohoku.ac.jp/english/admission/procedure/doctoral.html</p> <p>*If a Letter of Recommendation cannot be submitted, submit instead a Letter of Acceptance by the faculty member.</p>

	<p>*Please be sure to submit a Letter of Recommendation those who apply for the Department of Metallurgy, Materials Science, or Materials Processing.</p>
Undergraduate transcript	<p>Issued by the dean of the university from which you graduated</p>
<p>TOEFL®Test /TOEIC® Public Test score sheets</p> <p>Valid tests: TOEFL®Test PBT , TOEFL iBT®Test , TOEIC® Public Test (Listening & Reading Test)</p>	<p>Should be submitted by applicants corresponding to the following categories (1) or (2); not necessary for those applying for 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><u>Submitted originals of TOEFL/TOEIC score sheets will not be returned. However, TOEFL®Test “Test Taker Score Report” may be returned on the day of the entrance examination, if requested at the time of application.</u></p> <p><u>The TOEFL institution code of the Graduate School of Engineering, Tohoku University is 8958.</u></p> <p><u>*TOEFL iBT’s “My Best TM Score” will not be used for preliminary screening at Graduate School of Engineering.</u></p> <p><u>◆When submitting a score sheet for the 310 or 311th TOEIC public test:</u></p> <ul style="list-style-type: none"> • Please submit all other application documents, except the score sheet, within the submission period. • <u>Please submit the score sheet by Wednesday, January 25.</u> We will let you know how you should submit this score later. <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 311th TOEIC public test after submitting a score sheet for the 309th TOEIC public test.</u></p> <p><u>(Note) Score sheets which can be submitted outside of the</u></p>

	<p><u>submission period are limited to score sheets for the 310 or 311th TOEIC public tests.</u></p> <p><u>Example: You may not submit a score sheet for the 309th 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>(Note) There are required scores for those applying under the Special Selection Program for Foreign students to study in the Mechanical Systems Engineering, Finemechanics, Robotics, and Aerospace Engineering. For details, please see the appendix.</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 309th TOEIC public test or other TOEIC public tests conducted before the 309th test outside of the stated submission period, or may be exempted from submitting a score sheet.</u></p> <p>*TOEFL, TOEFL iBT, TOEFL ITP, and TOEIC are registered trademarks of Educational Testing Service (ETS).</p>
Certificate of (expected) completion or of degree conferral	Issued by the dean of the university from which 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.)
Examination Admission Ticket and Photo ID Form (受験票、写真票)	<p>Download the prescribed examination admission ticket and photo ID form files from the following URL.</p> <p>https://www.eng.tohoku.ac.jp/english/admission/procedure/doctoral.html</p> <p>The photo ID form should include an image file of a photograph showing the upper body of the applicant, facing forward with no hat, and have been taken within three months of application.</p>
Residence Record	<u>※ Only for foreign applicants already residing in Japan whose period of stay is over 90 days.</u> (The residence record should be issued within 3 months and indicate residence status without Individual Number.)

<p>Examination fee</p> <p>Please pay 30,000 yen By January 12, and submit attached "Payment Confirmation of Examination Fees"</p>	<p>(1)Download the prescribed Confirmation for Examination Fee Payment form file from the following URL. https://www.eng.tohoku.ac.jp/english/admission/procedure/doctoral.html</p> <p>(2)Payment should be proceeded by ATM or Internet Banking Transaction: * Sender's name should be the applicant's name in Katakana. * Copy of ATM transaction statement or evidence of Internet Banking Transaction should be affixed to the "Payment Confirmation of Examination Fees". * Bank transfer fee should be paid by the applicant. * Only domestic banking transfer is accepted.</p> <p>Amount(金額): 30,000 yen Payment Deadline(納入期限): January 12, 2023 Bank(銀行): Mitsubishi UFJ Bank (三菱UFJ 銀行) Bank Code: 0005 Branch(支店): Wakatake-shiten(わかたけ支店) Branch Code: 809 Account Type(預金種別): Futsuu(普通) Account Number(口座番号): 2259225 Account Holder(口座名義): Kokuritsu Daigaku-houjin Tohokudaigaku(国立大学法人東北大学) Account Holder in Kana(カナ): タﾞ イ トホｸﾞﾀﾞ ｲｶﾞｸ</p> <p>(3) MEXT scholarship recipients do not need to pay this fee. If you wish to apply for examination fee waiver due to the domestic disasters, please see the following website: https://www.eng.tohoku.ac.jp/admission/grad/disaster.html</p> <p>(4) This banking information is only valid within Japan. If you live overseas, please contact the Graduate Academic Affairs Section in advance.</p>
<p>Address label</p>	<p>Fill in the necessary information on the address label in the online application system.</p>
<p>Written consent to take exam</p>	<p>※<u>Only for those intending to remain employed while in school.</u> Issued by head of workplace, showing employment duration, nature of work, and identity. (Any format; with official letterhead, signature, seal, etc.)</p>

In addition to the above documents, submit the following documents required to the Program you wish to apply.

- **Regular Program for Incoming Students from Other Schools**

Required documents	Notes
Proof of Japanese language proficiency	Foreign students or those who received a university education overseas who wish to apply to the Mechanical Systems Engineering, Finemechanics, Robotics, and Aerospace Engineering are required to submit this, which is prepared by a Japanese instructor or the prospective professor (any format).

- **Special Selection Program for Foreign Students**

Required documents	Notes
Recommendation Letter	Prepared by a supervising faculty member or the equivalent from your university (any format).
Proof of Japanese language proficiency	<p>Prepared by a Japanese instructor or the supervising faculty member, etc. (any format).</p> <p>Not necessary for those applying to the Mechanical Systems Engineering, Finemechanics, Robotics, or Aerospace Engineering.</p> <p>Not necessary for those applying for the Department of Quantum Science and Energy Engineering without Japanese proficiency.</p> <p>※Those who wish to study in the Mechanical Systems Engineering, Finemechanics, Robotics, and Aerospace Engineering in Japanese language should apply to Regular Doctoral Program.</p>

Other reference materials such as Papers and Reports to demonstrate academic ability may be uploaded as PDF files.

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

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

4. Examination and Selection

The selection of new students will be made based on the results of the examination subjects listed in the attached table and the documents to be submitted.

Examination dates: From Tuesday, February 28 to Thursday, March 2, 2023 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.)

5. Announcement of Results

Results are scheduled to be posted around 5:00 p.m. on Monday, March 8, 2023, on the following website (<https://www.eng.tohoku.ac.jp/>)

Notification of results will also be mailed to applicants who pass the entrance examination. Please note that results cannot be given in response to telephone inquiries.

6. Enrollment Procedures, etc.

- (1) The enrollment procedures are scheduled to be processed on Friday, March 17, 2023. Details of the enrollment procedures will be announced with notification of results is mailed.
- (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. In addition, regarding procedures such as exemption and deferment of collection, Tohoku University website (<https://www2.he.tohoku.ac.jp/menjo/>)

7. 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 need to apply at the

enrollment procedures. It is also possible to apply for this program in the middle of the enrollment, but not if less than one year remained in the standard period of study. In such a case, the length of the Long Term Study period is limited to twice the remaining period of study within the standard period of study.

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).

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.

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” 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 (<https://www.eng.tohoku.ac.jp/english/admission/procedure/doctoral.html>) under the Admissions menu. Please refer to it when submitting your 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 office of department for which you wish to apply (see the Remarks of Appendix) in advance..
- (4) All other inquiries regarding application for admission should likewise be made to the Graduate Academic Affairs Section, Graduate School of Engineering.
- (5) 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, November 30, 2022.

*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)

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

October 2022

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

e-mail : eng-in@grp.tohoku.ac.jp

Appendix— Admission Screening Examination Schedule for April 2023 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, Finemechanics, Robotics, Aerospace Engineering	Selection to be made separately by department.			Department inquiries: Mechanical and Aerospace Engineering Academic Affairs Section Phone: 022-795-7030
Quantum Science and Energy Engineering	Selection to be made separately by department.			Department inquiries: Mechanical and Aerospace Engineering Academic Affairs Section Phone: 022-795-7030
Electrical Engineering, Communications Engineering, Electronic Engineering	Selection to be made separately by department. *If there is a change in the subject or implementation method of each test to prevent the spread of new coronavirus infection, the change will be notified at a later date.			
Applied Physics	Selection to be made separately by department. *If there is a change in the subject or implementation method of each test to prevent the spread of new coronavirus infection, the change will be notified at a later date.			
Applied Chemistry, Chemical Engineering, Biomolecular Engineering,	Selection to be made separately by department.			Department inquiries: Applied Chemistry, Chemical Engineering and Biomolecular Engineering Academic Affairs Section Phone : 022-795-7205 Website: http://www.che.tohoku.ac.jp/index-j.html
Metallurgy, Materials Science, Materials Processing	Selection to be made separately by department.			

Department	Test Subjects	Date and Time	Description	Remarks
Civil and Environmental Engineering	Interview	Tue., Feb. 28 or Wed., Mar. 1	Ask questions about the contents of the master's thesis and research plans after admission.	<p>(1) Use of calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.</p> <p>(2) See the following website for more information. https://www.civil.tohoku.ac.jp/admission/index.html</p> <p>(3) Time and place of the interview will be notified by department.</p> <p>(4) If face-to-face testing cannot be conducted to prevent the spread of new coronavirus infection, the test will be conducted online. Since the online connection will be confirmed before the test, detailed test methods will be notified at that time.</p> <p>Department inquiries: Civil Engineering and Architecture Academic Affairs Section Phone: 022-795-7489</p>
Architecture and Building Science	Screening of application document		Research plans	<p>(1) Time and place of the interview will be notified by the department.</p> <p>(2) Interview may be conducted online</p> <p>(3) An additional assignment may need to be submitted according to the situation.</p> <p>(4) Please inquire with the department for details</p> <p>Department inquiries: Civil Engineering and Architecture Academic Affairs Section Phone 022-795-7489</p>
	Interview	Tue., Feb 28 or Wed., Mar. 1 (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 TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. Also accept TOEFL iBT Home Edition score. Students whose native tongue is English should contact the department individually.	The application is not acceptable if the applicant, except whose native language is English, is unable to submit the score sheet within the application period. (The exception is the case in which the applicant submits the score sheet of the specified TOEIC public test after the application period. In this case, the applicant will be assessed as failed if the original score sheet is not submitted by the designated date.)
	Math A (mandatory)	Tue., Feb. 28, 9:30 to 10:30 a.m. (Entry time 8:50 a.m.)	Differential and Integral Calculus, Linear Algebra, Vector Analysis	(1) Written testing may be waived depending on the applicant's record as indicated on transcripts. (2) On the scope of each subject, inquire with each department or consult the websites below. http://www.mech.tohoku.ac.jp/ (3) Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.
	Math B (mandatory)	Tue., Feb. 28, 1:00 to 2:00 p.m.	Ordinary Differential Equations, Partial Differential Equations, Fourier Series and Fourier Transforms, Laplace Transforms	
	Specialized subjects (elective)*	Tue., Feb. 28, 3:45 to 4:45 p.m.	Thermodynamics, Fluid Dynamics, Strength of Materials, Dynamics of Mechanical Systems, Control Engineering *Choose any two of the above listed five subjects.	
		Wed., Mar. 1	Spare date of Math and Specialized subjects	
	Interview		Questions about your master's thesis, etc. and research plans after entering this	
				(4) Interviews are given only for those applicants who pass the written testing.

Department	Test Subjects	Date and Time	Description	Remarks
		Thu., Mar. 2 (time indicated by your department)	program .	<p>(5) Because the written test is likely to be an online test secure the internet environment and PC, WEB camera and smartphone with camera function (or a scanner)</p> <p>(6) We will inform you of the type of exams (on-line or on-site exam) when the admission ticket is sent (early Februar).</p> <p>Department inquiries: Mechanical and Aerospace Engineering Academic Affairs Section Phone: 022-795-7030</p>

Department	Test Subjects	Date and Time	Description	Remarks
Quantum Science and Energy Engineering	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. Contact the department if your native tongue is English.	
	Math A (mandatory)	Tue., Feb. 28, 10:00 to 11:30 a.m. ((Meeting time: 9:30 a.m.)	Differential and Integral Calculus,, Linear Algebra, Vector Analysis	(1) Written test may be waived depending on the applicant's record indicated on transcripts.
	Math B (mandatory)	Tue., Feb. 28, 1:00 to 2:30 p.m.	Ordinary Differential Equations, Partial Differential Equations, Fourier Series and Fourier Transforms, Laplace Transforms	(2) The scopes of each subject can be found at http://www.qse.tohoku.ac.jp/admission/admission_graduate.html
	Specialized subjects (elective)*	Wed., Mar. 1, 10:00 to 11:30 a.m. (Meeting time:9:30 a.m.)	Field I: <ul style="list-style-type: none"> • Fluid Dynamics, • Strength of Materials, • Mechanical materials, • Electromagnetics, • Quantum Mechanics, • Chemistry basics Field II: <ul style="list-style-type: none"> • Radiochemistry, • Radiation engineering, • Reactor physics *Choose any two of the nine subjects (no more than one (1) subject can be selected from Field II)	(3) Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room/ (4) Whether an applicant can proceed to the interview depends on the score of the written test. When and how the results of the written test will be notified is announced on the first day of the examination.
	Interview	Thu., Mar. 2 (time indicated by the department)	Presentation about your study so far, such as the contents of your master's thesis, and research plans after entering this program (in 20 minutes). After that, a question-and-answer session will be held (in 20 minutes).	(5)Declare the language (Japanese or English) of the examination in advance. You cannot take the examination in a language different from the declaration.

				<p>(6) How to choose the language and specialized subjects will be notified later.</p> <p>We will contact each applicant if there is any change in the examination to prevent the spread of COVID-19.</p> <p>Inquire with the Mechanical and Aerospace Engineering Academic Affairs Section for details.</p> <p>Phone: 022-795-7030</p>
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Department	Test Subjects	Date and Time	Description	Remarks
Electrical Engineering, Communications Engineering, Electronic Engineering	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. TOEFL iBT Home Edition scores are also accepted.	(1) Written testing may be waived depending on the applicant's record as indicated on transcripts. (2) On the scope of each subject, inquire with your department or consult the website below. https://www.ecei.tohoku.ac.jp/ecei_web/admission/
	Basic subjects	Tue., Feb. 28, 9:40 to 10:40 a.m. (assemble at 9:00 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	(3) Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.
	Interview	Wed., Mar. 1 or Thu., Mar. 2 (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. Take five copies of support materials with you.	※If there is a change in the subject or implementation method of each test to prevent the spread of new coronavirus infection, the change will be notified at a later date. Department inquiries: Electronic Information System and Applied Physics Academic Affairs Section Phone: 022-795-7186

Department	Test Subjects	Date and Time	Description	Remarks
Applied Physics	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. TOEFL iBT Home Edition scores are also accepted.	A field-specific interview will take place prior to the entrance exam (late February)
	Basic subjects	Tue., Feb. 28, 9:30 to 11:45 a.m.	mechanics, electromagnetism, quantum mechanics	Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.
	Specialized subjects	Tue., Feb. 28 1:00 to 2:30 p.m.	statistical mechanics, condensed matter physics	※If there is a change in the subject or implementation method of each test to prevent the spread of new coronavirus infection, the change will be notified at a later date.
	Interview	Wed., Mar. 1, from 9:00 a.m.	10-minute Summary presentation and oral test about master's thesis	Department inquiries: Electronic Information System and Applied Physics Academic Affairs Section Phone: 022-795-7186
Applied Chemistry, Chemical Engineering, Biomolecular Engineering	Specialized subjects	150 minutes, from Tue., Feb. 28 to Wed., Mar. 1.	Choice of 3 questions from total of 8 (2 each in chemical engineering, inorganic & physical chemistry, organic chemistry, biochemistry)	The test method is separately informed if face-to-face testing cannot be conducted in order to prevent the spread of new coronavirus infection.
	English	60 minutes, from Tue., Feb. 28 to Wed., Mar. 1	A written test will be conducted.	Department inquiries: Applied Chemistry, Chemical Engineering and Biomolecular

	Interview test	30 minutes, from Tue., Feb. 28 to Wed., Mar. 1	Summary presentation and oral test about master's thesis	Engineering Academic Affairs Section Phone : 022-795-7205 Website: http://www.che.tohoku.ac.jp/ index-j.html
Metallurgy, Materials Science, Materials Processing	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam.	(1) For details on the target TOEFL Test/ TOEIC® public test types, etc., please see the website below. http://www.material.tohoku.ac. jp/admission/index.html/
	General field- specific subjects	40 minutes, from Tue., Feb. 28 to Thu., Mar. 2	Oral test in physics, chemistry, materials chemistry, materials science, materials processing.	(2) English test may be waived for those completing their master's program in this Graduate School. (3) Schedule etc. will be notified individually. (4) Be sure to confirm your selection category with the expected supervisor.
	Designated field- specific subjects	40 minutes, from Tue., Feb. 28 to Thu., Mar. 2	Oral presentation about master's thesis or research conducted after completing master's degree.	* For more information, Please contact your department or check The website below.. http://www.material.tohoku.ac. jp/admission/index.html *Separately inform test takers of the test Method when face- to-face testing cannot be conducted to prevent the spread of new coronavirus infection. Department inquiries: Materials and Development Office Academic Affairs Phone: (022)-795-7373

Department	Test Subjects	Date and Time	Description	Remarks
Civil and Environmental Engineering	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. TOEFL iBT Home Edition scores are also accepted.	(1) Use of calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room.
	Oral test	Tue., Feb. 28	Within 15-minute presentation on master's thesis (completed or in progress; may use PC), followed by questions about the presentation contents.	(2) See the following website for more information. https://www.civil.tohoku.ac.jp/english/admission/index.html
	Interview	Tue., Feb. 28 or Wed., Mar. 1		(3) Time and place of the interview will be notified by department. (4) If face-to-face testing cannot be conducted to prevent the spread of new coronavirus infection, the test will be conducted online. Since the online connection will be confirmed before the test, detailed test methods will be notified at that time. Department inquiries: Civil Engineering and Architecture Academic Affairs Section Phone: 022-795-7489

Department	Test Subjects	Date and Time	Description	Remarks
Architecture and Building Science	Oral test	Tue., Feb. 28 or Wed., Mar. 1 (time indicated by your department)	Presentation on master's thesis or equivalent and research plans (may use PC), followed by questions about presentation contents.	(1) Time and place of the oral test and interview will be notified by the department. (2) Oral test and interviews may be conducted online (3) An additional assignment may need to be submitted according to the situation. (4) Please inquire with the department for details Department inquiries: Civil Engineering and Architecture Academic Affairs Section Phone 022-795-7489
	Interview	Tue., Feb. 28 or Wed., Mar. 1 (time indicated by your department)	At the same time of the oral test.	
Management Science and Technology	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. TOEFL iBT Home Edition scores are also accepted.	Time and place for the oral test will be notified by the department. Department inquiries: Management Science and Technology Academic Affairs Section Phone: 022-795-3863 Web site: https://www.most.tohoku.ac.jp
	Oral test	Tue., Feb. 28 to Thu., Mar. 2 (Schedule will be notified from the department.)	The applicant is required to make presentation on previous research and on research plan after admission, followed by questions on presentation contents.	

(C) Special Selection Program for Working Adults

Department	Test Subjects	Date and Time	Description	Remarks
Mechanical Systems Engineering, Finemechanics, Robotics, Aerospace Engineering	Oral test etc.	Wed., Mar. 1 or Thu., Mar. 2 (time indicated by your department)	<p><Presentation and questions> Presentation on your research, such as a master's thesis, and followed by questions on presentation contents.</p> <p><Oral test> Questions from mathematics and specialized subjects. *The scope of each subject is the same as written test. Choose two subjects beforehand from the following five subjects: Thermodynamics, Fluid Dynamics, Strength of Materials, Dynamics of Mechanical Systems, Control Engineering.</p>	<p>(1) The applicant whose research achievement or research history is recognized as qualified, will be exempted from the oral exam and the research presentation and Q & A sections. The applicant should ask the prospective professor as to the details for an exemption and an application method for the oral examination exemption.</p> <p>(2) On the scope of each subject, inquire with your department or confirm with the website below. http://www.mech.tohoku.ac.jp/</p> <p>Department inquiries: Systems Science and Mechanical Engineering Academic Affairs Section Phone: 022-795-7030</p>

Department	Test Subjects	Date and Time	Description	Remarks
Quantum Science and Energy Engineering	interview	Wed., Mar. 1 or Thu., Mar. 2 (time indicated by the department)	<p>Presentation about your study so far, such as the contents of your master's thesis, and research plans after entering this program (in 20 minutes). After that, a question-and-answer session will be held (in 15 minutes). Subsequently, an oral examination, concerning mathematics and specialized subjects, will be held (in 15 minutes). In some cases, English proficiency will be evaluated.</p> <p>Select two subjects from the following nine subjects in advance (no more than one (1) subject can be selected from Field II) for the oral examination.</p> <p>Field I:</p> <ul style="list-style-type: none"> • Fluid Dynamics, • Strength of Materials, • Mechanical materials, • Electromagnetics, • Quantum Mechanics, • Chemistry basics <p>Field II:</p> <ul style="list-style-type: none"> • Radiochemistry, • Radiation engineering, • Reactor physics 	<p>(1) The oral examination may be waived depending on the applicant's career. Contact your prospective supervisor for more detail.</p> <p>(2) The scopes of each subject can be found at http://www.qse.tohoku.ac.jp/admission/admission_graduate.html</p> <p>(3) Declare the language (Japanese or English) of the examination in advance. You cannot take the examination in a language different from the declaration.</p> <p>(4) How to choose the language and specialized subjects will be notified later.</p> <p>We will contact each applicant if there is any change in the examination to prevent the spread of COVID-19. /</p> <p>Inquire with Mechanical and Aerospace Engineering Academic Affairs Section for details. Phone: 022-795-7030</p>

Department	Test Subjects	Date and Time	Description	Remarks
Electrical Engineering, Communications Engineering, , Electronic Engineering	Interview	Wed., Mar. 1 or Thu., Mar. 2 (time indicated by your department)	Approx. 20-minute presentation about studies up to now and research plans after entering this program. Take five copies of support materials with you.	<p>*If there is a change in the subject or implementation method of each test to prevent the spread of new coronavirus infection, the change will be notified at a later date.</p> <p>Department inquiries: Electronic Information System and Applied Physics Academic Affairs Section Phone: 022-795-7186</p>
Applied Physics	Interview	Wed., Mar. 1, from 9:00 a.m.	10 minutes Research presentation and oral test English proficiency may be asked.	<p>A field-specific interview will take place prior to the entrance exam (late February).</p> <p>*If there is a change in the subject or implementation method of each test to prevent the spread of new coronavirus infection, the change will be notified at a later date.</p> <p>Department inquiries: Electronic Information System and Applied Physics Academic Affairs Section Phone: 022-795-7186</p>

Department	Test Subjects	Date and Time	Description	Remarks
Applied Chemistry, Chemical Engineering, Biomolecular Engineering	Interview test	30 minutes, from Tue., Feb. 28 to Wed., Mar. 1.	Research presentation and oral test	The test method is separately informed if face-to-face testing cannot be conducted in order to prevent the spread of new coronavirus infection. Department inquiries: Applied Chemistry, Chemical Engineering and Biomolecular Engineering Academic Affairs Section Phone: 022-795-7205 Website: http://www.che.tohoku.ac.jp/index-j.html
Metallurgy, Materials Science, Materials Processing	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam.	(1) For details on the target TOEFL Test/ TOEIC® public test types, etc., please see the website below. http://www.material.tohoku.ac.jp/admission/index.html
	General field-specific subjects	40 minutes, from Tue., Feb. 28 to Thu, Mar. 2	Oral test in physics, chemistry, materials chemistry, materials science, materials processing.	(2) Submission of TOEFL® or TOEIC® score sheet may be waived for qualified applicants. You should ask your prospective academic advisor for details. (3) Schedule etc. will be notified individually. (4) Be sure to confirm your selection category with the expected supervisor.
	Designated field-specific subjects	40 minutes, from Tue., Feb. 28 to Thu., Mar. 2	Oral presentation about research conducted up to now or master's thesis.	* For more information, Please contact your department or check The website below.. http://www.material.tohoku.ac.jp/admission/index.html *Separately inform test takers of the test Method when face-to-face testing cannot be conducted to prevent the spread of new coronavirus infection. Department inquiries: Materials and Development Office Academic Affairs Phone: (022)-795-7373

Department	Test Subjects	Date and Time	Description	Remarks
Civil and Environmental Engineering	Short essay	Wed., Feb. 28, 9:30 to 11:00 a.m.	Topic related to civil and environmental engineering	<p>(1) Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination.</p> <p>(2) See the following website for problems of past essays. https://www.civil.tohoku.ac.jp/admission/index.html</p> <p>(3) Time and place of the interview will be notified by department.</p> <p>(4) If face-to-face testing cannot be conducted to prevent the spread of new coronavirus infection, the test will be conducted online. Since the online connection will be confirmed before the test, detailed test methods will be notified at that time.</p> <p>Phone: 022-795-7489 (Civil Engineering and Architecture Academic Affairs Section)</p>
	Oral test	Wed., Feb. 28	Within 15-minute presentation on research or work at the place of employment (may use PC), followed by questions about the presentation contents	
	Interview	Wed., Feb. 28		

Department	Test Subjects	Date and Time	Description	Remarks
Architecture and Building Science	Oral test	Tue., Feb. 28 or Wed., Mar. 1 (time indicated by your department)	Presentation on research plans (may use PC), followed by questions about presentation contents.	<p>(1) Time and place of the interview will be notified by the department.</p> <p>(2) Oral test and interviews may be conducted online</p> <p>(3) An additional assignment may need to be submitted according to the situation.</p> <p>(4) Please inquire with the department for details</p> <p>Department inquiries: Civil Engineering and Architecture Academic Affairs Section Phone 022-795-7489</p>
	Interview	Tue., Feb. 28 or Wed., Mar. 1 (time indicated by your department)	At the same time of the oral test.	
Management Science and Technology	Oral test	Tue., Feb. 28 to Thu., Mar. 2 (time indicated by your department)	The applicant is required to make presentation on previous research and on research plan after admission, followed by questions on presentation contents.	<p>Time and place of the oral test will be notified by department.</p> <p>Department inquiries: Office: 022-795-3863 Website: http://www.most.tohoku.ac.jp</p>

(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 TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. Also accept TOEFL iBT Home Edition score. Students whose native tongue is English should contact the department individually.	The application is not acceptable if the applicant, except whose native language is English, is unable to submit the score sheet within the application period. (The exception is the case in which the applicant submits the score sheet of the specified TOEIC public test after the application period. In this case, the applicant will be assessed as failed if the score sheet is not submitted by the designated date.) If the Test Date score on the score sheet does not meet the criteria (TOEFL PBT 550 points, TOEFL iBT 79 points, or TOEIC 730 points), the applicant will be assessed as failed.
	Math A (mandatory)	Tue., Feb. 28, 9:30 to 10:30 a.m. (Entry time 8:50 a.m.)	Differential and Integral Calculus,, Linear Algebra, Vector Analysis	(1) Written testing may be waived depending on the applicant's record as indicated on transcripts. (2) On the scope of each subject, inquire with your department or consult the websites below. http://www.mech.tohoku.ac.jp/ (3) Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room. (4) Interviews are given only for those applicants who pass the written testing. (5) Because the written test is likely to be an online test Secure the internet environment and PC, WEB camera and smartphone with camera function (Or a scanner. (6) We will inform you of the type of exams (on-line or on-site exam) when the admission ticket is sent (early February).
	Math B (mandatory)	Tue., Feb. 28, 1:00 to 2:00 p.m.	Ordinary Differential Equations, Partial Differential Equations, Fourier Series and Fourier Transforms, Laplace Transforms	
	Specialized subjects (elective)*	Tue., Feb. 28, 3:45 to 4:45 p.m.	Thermodynamics, Fluid Dynamics, Strength of Materials, Dynamics of Mechanical Systems, Control Engineering *Choose any two of the above listed five subjects.	
		Wed., Mar. 1	Spare date of Math and Specialized subjects	
	Interview	Thu., Mar. 2 (time indicated by your department)	Questions about your master's thesis, etc. and research plans after entering this program.	
				Department inquiries: Mechanical and Aerospace Engineering Academic Affairs Section Phone: 022-795-7030

Department	Test Subjects	Date and Time	Description	Remarks
Quantum Science and Energy Engineering	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. Contact the department if your native tongue is English	
	Math A (mandatory)	Tue., Feb. 28, 10:00 to 11:30 a.m. (Meeting time: 9:30 a.m.,)	Differential and Integral Calculus, Linear Algebra, Vector Analysis	<p>1) Written test may be waived depending on the applicant's record indicated on transcripts.</p> <p>(2) The scopes of each subject can be found at http://www.qse.tohoku.ac.jp/admission/admission_graduate.html</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) Whether an applicant can proceed to the interview depends on the score of the written test. When and how the results of the written test results will be notified is announced on the first day of the examination.</p> <p>(5) Declare the language (Japanese or English) of the examination in advance. You cannot take the examination in a language different from the declaration.</p> <p>(6) How to choose the language and specialized subjects will be notified later.</p> <p>We will contact each applicant if there is any change in the examination to prevent the spread of COVID-19.</p> <p>Inquire with the Mechanical and Aerospace Engineering Academic Affairs Section for details. Phone: 022-795-7030</p>
	Math B (mandatory)	Tue., Feb. 28, 1:00 to 2:30 p.m.	Ordinary Differential Equations, Partial Differential Equations, Fourier Series and Fourier Transforms, Laplace Transforms	
	Specialized subjects (elective)*	Wed., Mar. 1, 10:00 to 11:30 a.m. (Meeting time: 9:30 a.m.,)	<p>Field I:</p> <ul style="list-style-type: none"> • Fluid Dynamics, • Strength of Materials, • Mechanical materials, • Electromagnetics, • Quantum Mechanics, • Chemistry basics <p>Field II:</p> <ul style="list-style-type: none"> • Radiochemistry, • Radiation engineering, • Reactor physics <p>*Choose any two of the nine subjects (no more than one (1) subject can be selected from Field II) .</p>	

	Interview	Thu., Mar. 2 (time indicated by the department)	<p>Presentation about your study so far, such as the contents of your master's thesis, and research plans after entering this program (in 20 minutes). After that, a question-and-answer session will be held (in 20 minutes).</p>	
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Department	Test Subjects	Date and Time	Description	Remarks
Electrical Engineering, Communications Engineering, , Electronic Engineering	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. TOEFL iBT Home Edition scores are also accepted.	<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 website below. https://www.ecei.tohoku.ac.jp/ecei_web/admission/</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>*If there is a change in the subject or implementation method of each test to prevent the spread of new coronavirus infection, the change will be notified at a later date.</p> <p>Department inquiries: Electronic Information System and Applied Physics Academic Affairs Section Phone: 022-795-7186</p>
	Basic subjects	Tue., Feb. 28, 9:40 to 10:40 a.m. (assemble at 9:00 a.m.)	Choice of 2 questions from the following 6 areas: electromagnetics, electrical circuits, basic information science 1, basic information science 2, basic physics , basic math	
	Interview	Wed., Mar. 1 or Thu., Mar. 2 (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. Take five copies of support materials with you.	

Department	Test Subjects	Date and Time	Description	Remarks
Applied Physics	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. TOEFL iBT Home Edition scores are also accepted.	<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>*If there is a change in the subject or implementation method of each test to prevent the spread of new coronavirus infection, the change will be notified at a later date.</p> <p>Department inquiries: Electronic Information System and Applied Physics Academic Affairs Section Phone: 022-795-7186</p>
	Basic subjects	Tue., Feb. 28, 9:30 to 11:45 a.m.	<p>mechanics, electromagnetism, quantum mechanics</p> <p>English translations provided as necessary.</p>	
	Specialized subjects	Tue., Feb. 28. 1:00 to 2:30 p.m.	<p>statistical mechanics, condensed matter physics</p> <p>English translations provided as necessary.</p>	
	Interview	Wed., Mar. 1, from 9:00 a.m.	10 minutes Research presentation and oral test	

Department	Test Subjects	Date and Time	Description	Remarks
Applied Chemistry, Chemical Engineering, Biomolecular Engineering	Basic subjects	90 minutes, from Tue., Feb. 28 to Wed., Mar. 1.	Choice of 1 question from Basic I (inorganic chemistry, analytical chemistry, physical chemistry), Basic II (organic chemistry), and math	<p>The test method is separately informed if face-to-face testing cannot be conducted in order to prevent the spread of new coronavirus infection.</p> <p>Department inquiries: Applied Chemistry, Chemical Engineering and Biomolecular Engineering Academic Affairs Section Phone: 022-795-7205 Website: http://www.che.tohoku.ac.jp/index-j.html</p>
	Specialized subjects		Applicant's field of specialty	
	Interview test	30 minutes, from Tue. Feb. 28 to Wed. Mar. 1.	Summary presentation and oral test about master's thesis.	
Metallurgy, Materials Science, Materials Processing	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam.	<p>(1) For details on the target TOEFL Test/TOEIC® public test types, etc., please see the website below. http://www.material.tohoku.ac.jp/admission/index.html</p> <p>(2) Submission of TOEFL®/TOEIC® score sheet may be waived for qualified applicants. You should ask your prospective academic adviser for details.</p> <p>(3) Schedule etc. will be notified individually.</p> <p>(4) Be sure to confirm your selection category with the expected supervisor.</p> <p>* For more information, Please contact your department or check the website below. http://www.material.tohoku.ac.jp/admission/index.html</p> <p>*Separately inform test takers of the test method when face-to-face testing cannot be conducted to prevent the spread of new coronavirus infection.</p> <p>Department inquiries : Materials and Development Office Academic Affairs Academic Affairs Section Phone:(022)-795-7373</p>
	General field-specific subjects	Tue., Feb. 28 to Thu., Mar. 2 (40 minutes)	Oral test in physics, chemistry, materials chemistry, materials science, materials processing.	
	Designated field-specific subjects	Tue., Feb. 28 to Thu., Mar. 2 (40 minutes)	Oral presentation about research to date or master's thesis (in English or Japanese).	

Department	Test Subjects	Date and Time	Description	Remarks
Civil and Environmental Engineering	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. TOEFL iBT Home Edition scores are also accepted	(1) Use of calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room. (2) See the following website for more information. https://www.civil.tohoku.ac.jp/admission/index.html
	Oral test	Tue., Feb. 28	Within 15-minute presentation on master's thesis (completed or in progress; may use PC), followed by questions about the presentation contents	(3) Time and place of the interview will be notified by department. (4) If face-to-face testing cannot be conducted to prevent the spread of new coronavirus infection, the test will be conducted online. Since the online connection will be confirmed before the test, detailed test methods will be notified at that time.
	Interview	Tue., Feb. 28 or Wed., Mar. 1		Department inquiries: Civil Engineering and Architecture Academic Affairs Section Phone: 022-795-7489
Architecture and Building Science	Oral test	Tue., Feb. 28 or Wed., Feb. 1 (time indicated by your department)	Presentation on master's thesis or equivalent and research plans (may use PC), followed by questions about presentation contents.	(1) Time and place for the oral test and interview will be notified by the department. (2) Oral tests and interviews may be conducted online.
	Interview	Tue., Feb. 28 or Wed., Mar. 1 (time indicated by your department)	The interview will be conducted at the same time as the oral examination	(3) An additional assignment may need to be submitted according to the situation. (4) Please inquire with the department for details. Department inquiries: Civil Engineering and Architecture Academic Affairs Section Phone 022-795-7489
Management Science and Technology	English		At the time of application, submit TOEFL® or TOEIC® score sheet no older than two years before the entrance exam. TOEFL iBT Home Edition scores are also accepted.	Time and place for the oral test will be notified by the department. Department inquiries OfficePhone: 022-795-3863 Web site: https://www.most.tohoku.ac.jp

	Oral test	Tue., Feb. 28 to Thu., Mar. 2. (time indicated by your department)	The applicant is required to make presentation on previous research and on research plan after admission, followed by questions on presentation contents.	
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