



2022 Academic Year
Application for Spring Enrollment in Doctoral
Program
(for entry in April 2022)

For general selection (advancement/transfer)
Special Selection Program for Working Adults
Special Selection Program for International Students

November 2021

Graduate School of Biomedical Engineering, Tohoku University

Admission Policy of Graduate School of Biomedical Engineering

The Graduate School of Biomedical Engineering is supported by faculty members, facilities, and equipment to carry out cutting-edge research, and it has a philosophy of "Research First," which is a tradition of Tohoku University. In this context, our educational goal is to nurture human resources with creativity and high research ability and to raise engineers with advanced expertise who can carry out research based on their own ideas, aim at the realization of an affluent society, and be responsible for the development and innovation of science and technology in medicine and welfare, based on a broad perspective and deep knowledge in the interdisciplinary field of medicine and engineering.

We are looking for students with the following backgrounds:

- People with a strong passion for contributing to the medical and welfare fields through the creation and innovation of science and technology.
- Those who have the basic academic skills necessary to study medical engineering and who have a strong desire to study at the university.
- People who have creativity and the ability to implement new research areas.
- People who have a firm sense of ethics and can act responsibly.

For the Special Selection Program for Working Adults and Special Selection Program for International Students, in addition to the above items, the following items are also required for admission:

Special Selection Program for Working Adults:

engineers after graduating from university, etc.; teaching/faculty staff; among working adults who are active as researchers, etc. it is required to use your experience in your study; application of the existing knowledge to research; people who desire to advance their technical level and develop their creative abilities; motivated individuals

Special Selection Program for International Students:

students who have completed a course at an overseas educational institution after acquiring sufficient basic academic skills, and then with to receive graduate education at the Tohoku University Graduate School of Biomedical Engineering using their experience

In the selection of applicants, emphasis is placed on whether or not the applicant has the high level of abilities and qualities necessary to conduct research in line with the educational philosophy and goals of the Graduate School. Written examinations and interviews are conducted according to the fields of study that the applicant has acquired to date.

In the General Selection and the Special Selection for International Students, the applicant's ability to develop basic knowledge in his/her field of specialization will be assessed through a written examination, and the applicant's research content and research plan in the Doctoral Course will be assessed through an interview, with particular emphasis on the applicant's past research achievements and future potential as a researcher. International students may be asked to demonstrate proficiency in Japanese.

In the Special Selection for Working Adults, emphasis is placed on a comprehensive evaluation of the applicant's work history and research as a working adult, as well as the evaluation of basic academic skills, using an essay and an interview. The selection process is based on the evaluation of oral and written examinations, if necessary. For international students, Japanese language proficiency may also be tested.

Before entering the program, students are expected to have the necessary research experience and basic academic skills to carry out independent research.

1. Departments and Admission Quotas

Department	Course	Quota
Biomedical Engineering	Basic Biomedical Engineering Course	A few
	Applied Biomedical Engineering Course	
	Medical Device Innovation Course	

[Note]: The number of applicants above includes the number of applicants for the General Selection (College Admission and Transfer), Special Selection for Working Adults, and Special Selection for International Students.

2. Application Qualifications

- ◎ Those who can apply for General Selection (advancement) are those who are in the two-year postgraduate program at a Graduate School of this university (including Master's courses and professional degree programs), and who expect to receive their Master's degree by March 2022.
 - ◎ Those eligible to apply for General Selection (from other schools) are those other than the persons above and for whom any of qualifications (1) to (8) below are applicable.
 - ◎ 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 at the time of enrollment as engineers, instructors, researchers or the like, and for whom any of the qualifications (1) to (8) below are 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 are applicable.
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- (1) Has earned a master's degree or professional degree, or expects to earn such a degree by March 2022.
 - (2) Has earned a master's degree or equivalent professional degree, or expects to earn such a degree by March 2022, in the graduate school of a foreign university.
 - (3) Has earned a master's degree or equivalent professional degree, or expects to earn such a degree by March 2022, by taking correspondence courses in Japan offered by schools outside Japan.
 - (4) Has earned a master's degree or equivalent professional degree, or expects to earn such a degree by March 2022, 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) Has earned a master's degree or equivalent professional degree, or expects to earn such a degree by March 2022, by graduating from a program of the United Nations University.
 - (6) Has 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 has 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) Meets either of the following criteria for eligibility specified by the Minister of Education, Culture, Sports, Science and Technology:
 - (a) Has carried out research in a university or research institute, etc. for two or more years after graduating from university, and is 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) Has 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 is 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) Is aged 24 or above, and, through individual admission qualification screening, is recognized by this Graduate School as having achieved at least the equivalent academic abilities of someone with a master's degree.

[Note 1]: Applicants applying under the Special Selection Program for Working Adults and who are employed by Tohoku university should contact the Academic Affairs Section, Biomedical Engineering in advance.

[Note 2]: Applicants should contact their prospective academic advisor in advance regarding their research plans after enrollment.

[Note 3]: Applicants applying under qualifications (7) or (8) will need to undergo admission qualification screening. Please contact the Academic Affairs Section, Biomedical Engineering in advance and submit the documents specified by the Graduate School by 10th December (Fri.), 2021.

* Inquiry Related to Certification of Qualifications to Enter or Transfer to Graduate School (Skipping Admission)

The Graduate School does not accept submissions of qualifications related to those who have been enrolled for at least three years at university (including those that the Minister of Education, Culture, Sports, Science and Technology recognizes as the equivalent) and who have obtained the necessary credits set by this Graduate School through excellent grades.

3. Application Submission

The application period is from January 4th (Tue.) to January 11th (Fri.), 2022.

Applications will be received during office hours, which are from 9:00 a.m. to 4:00 p.m. (Except for the period from 11:45 a.m. to 1:00 p.m.)

Mailed applications must arrive on the last day of the application period.

Please note that no applications will be accepted after January 12th (Wed.) neither at the counter nor via mail.

Please note that applications will not be accepted on Saturdays, Sundays, or national holidays.

If you send your application by mail, please use a commercially available square No. 2 envelope

and be sure to send it by express registered mail.

Post to:

Academic Affairs Section, Graduate School of Biomedical Engineering, Tohoku University
6-6-12 Aramaki Aza Aoba, Aoba-ku, Sendai, Miyagi 980-8579, Japan

4. Application Procedures

Applicants must submit the following materials before the deadline.

Withdrawal of an application or replacement of application documents will not be accepted under any circumstances.

Applicants who submitted falsified documents may have their admission revoked even after enrollment.

For certification documents that are not in Japanese or English, please attach a Japanese or English translation.

※ **Certificates must be originals. (Tohoku University does not accept copies, digital files, or printouts of digital files as original documents.)**

※ **Do not use erasable pens for application documents or envelopes.**

(I) Students in a two-year postgraduate program at a Graduate School of this university (including Master's courses and professional degree programs) applying for General Selection (advancement)

Required documents, etc.	Notes
Application for admission	Use the official form for this Graduate School.
Photo ID and examination admission ticket	One photo showing the applicant's upper body, bare-headed, and taken within the past three months should be attached to the photo form.
Envelope for submitting application	Please write your name, address, and postal code on a standard-sized envelope (23.5 x 12 cm) and affix a postage stamp worth 84 yen.
Return envelope for results notification	Write your name and address (including post code) on a rectangular-shaped No. 2 envelope.

[Note]: Applicants belonging to other graduate school must submit the following documents in addition to the above.

Postgraduate transcript and Certificate of Expected Completion	Issued by the dean of the department at the graduate school you are enrolled in.
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(II) Those other than in (I) above applying under qualifications (1) through (5)

Required documents, etc.	Notes
Application for admission	Use the official form for this Graduate School.
Written recommendation	Prepared by the faculty member under whom you expect to study, using the official form of this Graduate School. (If a recommendation cannot be submitted, instead submit a letter of acceptance by the faculty member.)
Postgraduate transcript	Issued by the dean of the department at the graduate school you graduated from.
Certificate of (Expected) Completion or Certificate of Degree Conferral (Application Submitted)	Issued by the dean of the department at the graduate school from which you graduated or by the NIAD-QE (National Institution for Academic Degrees and Quality Enhancement of Higher Education).
Undergraduate transcript	Issued by the dean of the university from which you graduated.
Original score sheet of TOEFL® or TOEIC® test (except for applicants for Special Selection for Working People in Medicine, Mechanical Engineering, Electrical and Computer Engineering, and Materials Science) TOEFL®, TOEFL iBT®, TOEFL ITP® and TOEIC® are registered trademarks of Educational Testing Service (ETS).	<p>The score sheets must be no older than two years before the entrance exam date.</p> <p>Valid tests: TOEFL iBT®, TOEFL PBT® and TOEIC®</p> <p>TOEFL ITP® test and TOEIC® IP test for group examination are not valid.</p> <p>◆ Please, submit score sheet up to the TOEFL and the 283rd TOEIC Public Test</p> <ul style="list-style-type: none"> • Please, submit all the other application documents during the application period indicated in ‘3. Application Submission’. <p>◆ However, those who will submit the score sheet for the 284th or 285th Public Test:</p> <ul style="list-style-type: none"> • Please, submit all the other application documents excluding the score sheet during the application period indicated in ‘3. Application Submission’. • The score sheet must arrive no later than January 26th (Wed.) (Applications will not be accepted on Saturdays, Sundays, and national holidays). When submitting by mail, please write "Score sheet enclosed" in red ink on any kind of envelope and send it to us. When submitting the score sheet, please write the examination series you applied for on the back of the score sheet. <p>[Note 1]: Score sheets may not be replaced with more recent test results once submitted. For example, after submitting the score sheet for the 283rd TOEIC® Public Test, you cannot resubmit another score sheet for the 284th TOEIC® Public Test.</p> <p>[Note 2]: Only the score sheet for the 284th or 285th TOEIC® Public</p>

	<p>Test can be submitted after the application period indicated in '3. Application Submission'. Thus, score sheets up to and including the 283rd session cannot be submitted after the application period.</p> <p>[Note 3]: If you are a native speaker of English or have received higher education in English, please contact the Academic Affairs Section, Graduate School of Biomedical Engineering in advance and submit the documents specified by the Graduate School by 10th December (Fri.), 2021.</p> <p>MyBestTMscores will not be used for the TOEFL® test.</p>
Copy of Master's Thesis	If a copy cannot be submitted, submit a summary (approximately 2 A4-size pages)
Photo ID and examination admission ticket	One photo showing the applicant's upper body, bare-headed, and taken within the past three months should be attached to the photo form.
Residence certificate with residence status clearly shown.	Only foreign nationals residing in Japan (those whose period of stay exceeds 90 days) should submit this form. (Must be issued within 3 months before the date of application that does not include your personal number and clearly states your status of residence.)
<p>Examination fee</p> <p>If it is difficult to pay by bank transfer, please consult with the Academic Affairs Section in advance.</p>	<p>1. Please pay the examination fee using ATMs (financial institutions, convenience stores) or Internet banking, etc. as follows:</p> <ul style="list-style-type: none"> ✂ the name of the payee must be the applicant's own name in Katakana ✂ please submit a copy of the bank account information, amount, date of transfer, name of the payee, etc. (e.g. copy of the ATM statement, copy of the screen of the completed Internet banking transfer) at the time of application ✂ the transfer fee is covered by the applicant <p>Amount: 30,000 yen</p> <p>Payment deadline: 7th January (Fri.) (Deadline is strictly observed)</p> <p>Bank: Mitsubishi UFJ Bank, Bank Code: 0005</p> <p>Branch: Wakatake Branch, Branch Code: 809</p> <p>Type of deposit: Ordinary</p> <p>Account number: 2259227</p> <p>Account name: National University Corporation Tohoku University</p> <p>Name: Tohoku University</p> <p>2. Not required for international students on a Japanese government scholarship (<i>Monbukagakusho</i> scholarship) or those who have applied for a waiver of entry examination</p>

	fees. For more information about the exemption of the entrance examination fee for victims of disasters, please refer to the following website: http://www.bme.tohoku.ac.jp/admission/index.html
Envelope for submitting application	Please write your name, address, and postal code on a standard-sized envelope (23.5 x 12 cm) and affix a postage stamp worth 84 yen.
Return envelope for results notification	Write your name and address (including post code) on a rectangular-shaped No. 2 envelope.

[Note]: Applicants for the Special Selection Program for Working Adults or the Special Selection Program for International Students must submit the following documents in addition to the above.

Special Selection Program for Working Adults

Proof of employment	Issued by head of workplace, showing employment duration, nature of work, and identity. (Any format; with official letterhead, signature, seal, etc.)
Written consent to take exam	Issued by head of workplace. Required only for those intending to remain employed while in school. (Any format; with official letterhead, signature, seal, etc.)

Special Selection Program for International Students

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, (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) Those applying under qualification (7)

Required documents, etc.	Notes
Application for admission	Use the official form for this Graduate School.
Research plan	Approximately 1 A4-size page. (Free format)
Written recommendation	Prepared by the faculty member under whom you expect to study, using the official form of this Graduate School. (If a recommendation cannot be submitted, instead submit a letter of acceptance by the faculty member.)
Undergraduate transcript	Issued by the dean of the university from which you graduated.
<p>Originals of</p> <p>TOEFL® or TOEIC® test (except for applicants for Special Selection for Working People in Medicine, Mechanical Engineering, Electrical and Computer Engineering, and Materials Science)</p> <p>TOEFL®, TOEFL iBT®, TOEFL ITP® and TOEIC® are registered trademarks of Educational Testing Service (ETS).</p>	<p>The score sheets must be no older than two years before the entrance exam date.</p> <p>Valid tests: TOEFL iBT®, TOEFL® PBT® and TOEIC®</p> <p>TOEFL ITP® test and TOEIC® IP test for group examination are not valid.</p> <p>◆ Please, submit score sheet up to TOEFL and the 283rd TOEIC Public Test</p> <ul style="list-style-type: none"> • Please, submit all the other application documents during the application period indicated in ‘3. Application Submission’. <p>◆ However, those who will submit the score sheet for the 284th or 285th Public Test:</p> <ul style="list-style-type: none"> • Please, submit all the other application documents excluding the score sheet during the application period indicated in ‘3. Application Submission’. • The score sheet must arrive no later than January 26th (Wed.) (Applications will not be accepted on Saturdays, Sundays, and national holidays). When submitting by mail, please write "Score sheet in process" in red on any kind of envelope and send it to us. When submitting the score sheet, please write the examination series you applied for on the back of the score sheet. <p>[Note 1]: Score sheets may not be replaced with more recent test results once submitted. For example, after submitting the score sheet for the 283rd TOEIC® Public Test, you cannot resubmit another score sheet for the 284th TOEIC® Public Test.</p> <p>[Note 2]: Only the score sheet for the 284th or 285th TOEIC® Public Test can be submitted after the application period indicated in ‘3. Application Submission’. Thus, score sheets up to and including the 283rd session cannot be submitted after the application period.</p> <p>[Note 3]: If you are a native speaker of English or have received higher education in English, please contact the Academic Affairs Section, Graduate School of Biomedical Engineering in advance and</p>

	<p>submit the documents specified by the Graduate School by 10th December (Fri.), 2021.</p> <p>MyBestTMscores will not be used for the TOEFL® test.</p>
Certificate of Graduation or Certificate of Degree Conferral	Issued by the dean of the department at the graduate school from which you graduated or by the NIAD-QE (National Institution for Academic Degrees and Quality Enhancement of Higher Education).
Certificate of engagement in research or work	Issued by head of workplace, certifying that the research/work was carried out as an engineer, instructor, researcher, etc. over a period of two years or more. (Any format; with official letterhead, signature, seal, etc.)
Photo ID and examination admission ticket	Photo 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.
Residence certificate with residence status clearly shown.	Only foreign nationals residing in Japan (those whose period of stay exceeds 90 days) should submit this form. (Must be issued within 3 months before the date of application that does not include your personal number and clearly states your status of residence.)
<p>Examination fee</p> <p>If it is difficult to pay by bank transfer, please consult with the Academic Affairs Section in advance.</p>	<p>1. Please pay the examination fee using ATMs (financial institutions, convenience stores) or Internet banking, etc. as follows:</p> <ul style="list-style-type: none"> ✂ the name of the payee must be the applicant's own name in Katakana ✂ please submit a copy of the bank account information, amount, date of transfer, name of the payee, etc. (e.g. copy of the ATM statement, copy of the screen of the completed Internet banking transfer) at the time of application ✂ the transfer fee is covered by the applicant <p>Amount: 30,000 yen</p> <p>Payment deadline: 7th January (Fri.) (Deadline is strictly observed)</p> <p>Bank: Mitsubishi UFJ Bank, Bank Code: 0005</p> <p>Branch: Wakatake Branch, Branch Code: 809</p> <p>Type of deposit: Ordinary</p> <p>Account number: 2259227</p> <p>Account name: National University Corporation Tohoku University</p> <p>Name: Tohoku University</p> <p>2. Not required for international students on a Japanese government scholarship (<i>Monbukagakusho</i> scholarship) or</p>

	those who have applied for a waiver of entry examination fees. For more information about the exemption of the entrance examination fee for victims of disasters, please refer to the following website: http://www.bme.tohoku.ac.jp/admission/index.html
Envelope for submitting application	Please write your name, address, and postal code on a standard-sized envelope (23.5 x 12 cm) and affix a postage stamp worth 84 yen.
Return envelope for results notification	Write your name and address (including post code) on a rectangular-shaped No. 2 envelope.

[Note]: Applicants for the Special Selection Program for Working Adults or the Special Selection Program for International Students must submit the following documents in addition to the above.

Special Selection Program for Working Adults

Proof of employment	Issued by head of workplace, showing employment duration, nature of work, and identity. (Any format; with official letterhead, signature, seal, etc.)
Written consent to take exam	Issued by head of workplace. Required only for those intending to remain employed while in school. (Any format; with official letterhead, signature, seal, etc.)

Special Selection Program for International Students

Written recommendation	Prepared by a supervising faculty member or equivalent from your university. (Any format)
Proof of Japanese language proficiency	Prepared by a Japanese instructor, (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.

[Note]: If you are an international student on a Japanese government scholarship (Monbukagakusho scholarship) at another university, etc., please contact us beforehand.

(IV) Those applying under qualifications (6) or (8) should inquire with the Academic Affairs Section of the Graduate School of Biomedical Engineering ahead of time regarding documents to submit.

5. Special Selection Process

Examination dates: From 28th February (Mon.) to 2nd March (Wed.), 2022, according to the attached schedule.

Location: Aobayama Campus, Tohoku University
Details will be provided to applicants separately.

6. Results Announcement

The examination numbers for successful applicants will be listed on the Graduate School of Biomedical Engineering website (<http://www.bme.tohoku.ac.jp/>) at around 5:00 p.m. on 7th March (Mon.), 2022.

A letter of acceptance will be mailed to successful applicants. Please note that we will not be able to respond to inquiries by phone.

7. Enrollment Procedures

- (1) Details of the enrollment procedures will be announced when the acceptance letters are mailed around March 2022.
- (2) Required fees
For General Selection (transfer) or Special Selection
 - (a) Entrance fees: 282,000 yen (tentative)
 - (b) Tuition (first semester): 267,900 yen (annual 535,800 yen) (tentative)
For General Selection (advancement)
 - (a) Entrance fees: Not required for those expecting to complete a two-year postgraduate course (including a Master's course) at a graduate school of this university.
 - (b) Tuition (first semester): 267,900 yen (annual 535,800 yen) (tentative)

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

[Note 2]: Information on the payment of entrance fees and tuition will be provided in the enrollment procedures documentation sent after the results notification. For procedures related to waivers of admission or tuition fees, or permission to defer payment to a later date, etc., access the university's website at <http://www.tohoku.ac.jp/> and then click on “東北大学で学びたい方へ” (Those wishing to study at Tohoku University) and then “入学料及び授業料等免除” (Entrance and tuition fee waivers).

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 doctor's degree (Note 2). This Graduate School offers this option, called the "Long-Term Study Program," to those who qualify based on an advance screening exam. Long term doctor's 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 Academic Affairs Section, Graduate School of Biomedical Engineering.

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

[Note 1]: Eligible persons: (1) Those employed by a company or self-employed.

(2) Those who require maternity leave, or are engaged in child or family care

(3) Those 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 should discuss the matter in advance with the Academic Affairs Section, Graduate School of Biomedical Engineering.

[Note 2]: The period of study may not be extended beyond six years, but it is possible to request that the period be shortened. In principle, no special curriculum will be prepared for students in the long-term study program.

9. Handling of Personal Information

- (1) The Graduate School of Biomedical Engineering of Tohoku University handles personal information in strict compliance with regulations such as the "Act on the Protection of Personal Information Held by Incorporated Administrative Agencies" and the "National University Corporation Tohoku University - Policy on the Protection of Personal Information," taking every precaution to protect personal information.
- (2) Examination results and other personal information obtained in the application process will be used for the selection of students for admission, enrollment procedures, follow-up surveys, student support after enrollment (e.g., scholarships, tuition waiver, health care), student guidance and other academic purposes, as well as in the collection of tuition fees, etc.
- (3) After enrollment, the Graduate School may outsource administrative work in educational affairs to third-party companies (hereafter, "contractors"). In doing so, it shall 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. Points to Note

- (1) 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 will not be returned.
- (3) If you do not receive your examination admission ticket by ten days prior to the examination date, please contact the Academic Affairs Section, Graduate School of Biomedical Engineering.
- (4) All other inquiries regarding application for admission should likewise be made to the Academic Affairs Section, Graduate School of Biomedical Engineering.
- (5) Applicants desiring consultation regarding the need for special assistance or other consideration in taking the examination or conducting their studies should make a written application indicating the items listed below (in any 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 consultations: As a rule, no later than 1th December (Wed.), 2022.

* Information to be shown in application:

- (A) Name, address and phone number of applicant
- (B) University, etc. from which the applicant has graduated
- (C) Special considerations desired when taking the examination
- (D) Special considerations desired in the study environment
- (E) Nature of 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) The disclosure of information pertaining to entrance examination results, etc. will only be authorized if the examinee requests such disclosure in person, using the specified application form within the academic year in which the entrance examination was held.
- (7) The Graduate School of Biomedical Engineering, Tohoku university does not send telegrams informing applicants of success or failure.
- (8) In accordance with the Foreign Exchange and Foreign Trade Act, Tohoku University has established the Tohoku University Security Export Control Regulations and conducts screening when accepting international students. If you fall under any of these restrictions, you may not be able to receive your desired education or your research theme may be restricted.

November 2021

Graduate School of Biomedical Engineering, Tohoku University
6-6-12 Aramaki Aza Aoba, Aoba-ku, Sendai, Miyagi 980-8579, Japan
Phone: (022) 795-4824
e-mail: bme-kyom@grp.tohoku.ac.jp
<http://www.bme.tohoku.ac.jp/>

Appendix

Select and sit exams from the following for Medical Science or Engineering.

1. Medical Science

Selection	Exam subjects	Date and time	Description	Remarks
(Advancement) General	Select separately.			
General (from other schools), Special Selection Program for Foreign Students	English		In place of the English exam, an original TOEFL® or TOEIC® Public Test score sheet no older than two years as of the date of the entrance exam is to be submitted at the time of application. TOEFLiBT Home Edition scores are also accepted. Applicants whose native language is English should inquire individually [Note 1].	(1) Consult the website below for the scope of each subject. http://www.bme.tohoku.ac.jp/admission/ (2) Calculators or devices such as watches and mobile phones with calculation or communication functions are not allowed in the examination room. ※ Applicants will be notified at a later date with details if the exam subjects or method have to be changed to prevent Covid-19 infection.
	Specialized subjects (Electives)	28 th February (Mon.) 10:00-12:00	Cell and molecular biology, biochemistry, anatomy, physiology, immunology, public health, pathology Choose any two of the 7 subjects above (declare these in advance) [Note 2].	
	Basic Mathematics	1 st March (Tue.) 10:00-12:00	Calculus, ordinary differential equations and linear algebra at the general education level of universities (In addition to the mathematical training required for university admission, content equivalent to classes conducted in biological systems, medicine / healthcare and pharmaceutical science other than in science and engineering departments).	
	Interview	2 nd March (Wed.) (Schedules etc. will be notified individually.)	Suitability for entrance to the university. International students may also be questioned about their Japanese ability.	
Special Selection Program for Working Adults	Short essay	1 st March (Tue.) 13:00-15:00	Biomedical engineering and medical science as well as health, medical, and welfare themes.	
	Interview	2 nd March (Wed.) (Schedules etc. will be notified individually.)	Suitability for entrance to the university. International students may also be questioned about their Japanese ability.	

[Note 1]: If originals of TOEFL®/TOEIC® score sheets are not submitted, the score for the English portion will be zero.

[Note 2]: Applicants in the Special Selection Program for Foreign Students and the Special Selection Program for Working Adults may be allowed to take exams in subjects related to their backgrounds.

Those wishing to use this examination method should inquire ahead of time with their prospective academic advisor in the laboratory (field) they wish to study in, and with the Academic Affairs Section, Graduate School of Biomedical Engineering.

2. Engineering

Those taking the entrance examination in engineering are required to choose one of the following fields (Mechanical Engineering, Electrical and Information Engineering, Materials Science) for the exam.

A. Engineering (Mechanical Engineering)

Selection	Exam subjects	Date and time	Description	Remarks
(Advancement) General	Select separately.			
General (from other schools), Special Selection Program for Foreign Students	English		In place of the English exam, an original TOEFL® or TOEIC® Public Test score sheet no older than two years as of the date of the entrance exam is to be submitted at the time of application. TOEFLiBT Home Edition scores are also accepted. Applicants whose native language is English should inquire individually [Note 1].	<p>(1) Written examination may be waived depending on the applicant's record as indicated on transcripts.</p> <p>(2) Consult the website below for the scope of each subject. http://www.mech.tohoku.ac.jp/</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) Since there is a high possibility that the examination will be conducted online, you are required to secure an Internet environment and prepare a PC, a Web camera, and a smartphone with a camera function (or a scanner).</p> <p>(5) You will be informed whether you will take the online or onsite exam when the examination voucher is sent out (early February).</p>
	Mathematics A (Required)	28 th Feb. (Mon.) 9:30-10:30 (Assemble at 8:50)	Calculus, linear algebra, vector analysis	
	Mathematics B (Required)	28 th Feb. (Mon.) 13:00-14:00	Ordinary differential equations, partial differential equations, Fourier series and Fourier transformations, Laplace transformations	
	Specialized subjects (Electives)	28 th Feb. (Mon.) 15:45-16:45	Thermodynamics, fluid mechanics, mechanics of materials, dynamics of mechanical systems, control engineering Choose any two of the 5 subjects above (declare these in advance).	
	Interview	2 nd March (Wed.) (Schedules etc. will be notified individually.)	Suitability for entrance to the university. International students may also be questioned about their Japanese ability.	

Special Selection Program for Working Adults	Oral examination [Note 2]	From 1 st March (Tue.) to 2 nd March (Wed.) (Schedules etc. will be notified individually.)	<p>Research presentation and question-and-answer session: Examinees will be asked to give a presentation on their research and then answer questions on it.</p> <p>Oral examination: Oral exam questions will be related to mathematics and specialist subjects.</p> <p>※ The scope of the oral questions in mathematics will be the same as Mathematics A and B in the written exams. Choose any two of the following 5 specialized subjects: Thermodynamics, fluid mechanics of, mechanics of materials, dynamics of mechanical systems, control engineering, materials physics, electromagnetism, quantum mechanics The scope of the oral questions will be the same as in the written exams.</p>	<p>(1) Those who are recognized as qualified due to their research results, research history, etc., the oral examination will be waived and only the research presentation and Q&A session will be conducted. Contact your intended hosting academic supervisor for details of waiver conditions and how to apply for a waiver of the oral exam (about 20 minutes).</p> <p>(2) Consult the website below for the scope of each subject. http://www.mech.tohoku.ac.jp/</p>
	Interviews [Note 2]	1 st March (Thu.) (Schedules etc. will be notified individually.)	<p>Suitability for entrance to the university with focus on the Master's Thesis or previous research work.</p> <p>International students may also be questioned about their Japanese ability.</p>	
	Short essay	2 nd March (Wed.) 13:00 to 15:00	Biomedical engineering and medical science as well as health, medical, and welfare themes.	

※ 1st March (Tue), will be a reserve day for the Mathematics and Specialized Subjects examinations.

[Note 1]: If originals of TOEFL®/TOEIC® score sheets are not submitted, the score for the English portion will be zero.

[Note 2]: Varies depending on the laboratory you wish to enter, as shown below.

If applying to enter a mechanical science lab: Oral examination

If applying to enter a lab other than mechanical science: Interview

(If you are not certain if your intended lab is a mechanical sciences lab, inquire ahead of time with your prospective academic advisor in the laboratory (field) you wish to study in, or with the Academic Affairs Section, Graduate School of Biomedical Engineering.)

B. Engineering (Electrical and Information Engineering)

Selection	Exam subjects	Date and time	Description	Remarks
(Advancement) General	Select separately. Applicants will be notified at a later date with details if the exam subjects or method have to be changed to prevent Covid-19 infection.			
General (from other schools), Special Selection Program for Foreign Students	English		In place of the English exam, an original TOEFL® or TOEIC® Public Test score sheet no older than two years as of the date of the entrance exam is to be submitted at the time of application. TOEFLiBT Home Edition scores are also accepted. Applicants whose native language is English should inquire individually [Note 1].	<p>(1) Written examination may be waived depending on the applicant's record as indicated on transcripts.</p> <p>(2) Consult the website below for the scope of each subject. http://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 may not be used.</p> <p>Applicants will be notified at a later date with details if the exam subjects or method have to be changed to prevent Covid-19 infection.</p>
	Basic subjects	28 th Feb. (Mon.) 9:40-10:40 (Assemble at 9:00)	Choice of 2 questions from the following 6 areas: Electromagnetism, Electrical Circuits, Basic Information Science 1, Basic Information Science 2, Basic Physics, Basic Mathematics	
	Interview	2 nd March (Wed.) (Schedules etc. will be notified individually.)	Suitability for entrance to the university with focus on Master's thesis or previous research work. International students may also be questioned about their Japanese ability.	
Special Selection Program for Working Adults	Short essay	1 st March (Tue.) 13:00-15:00	Medical engineering and medical science as well as health, medical, and welfare themes.	Applicants will be notified at a later date with details if the exam subjects or method have to be changed to prevent Covid-19 infection.
	Interview	2 nd March (Wed.) (Schedules etc. will be notified individually.)	Suitability for entrance to the university. International students may also be questioned about their Japanese ability.	

[Note 1]: If originals of TOEFL®/TOEIC® score sheets are not submitted, the score for the English portion will be zero.

C. Engineering (Materials Science)

Selection	Exam subjects	Date and time	Description	Remarks
(Advancement) General	Select separately.			
General (from other schools), Special Selection Program for Foreign Students/Working Adults	English		<p>In place of the English exam, an original TOEFL® or TOEIC® Public Test score sheet no older than two years as of the date of the entrance exam is to be submitted at the time of application.</p> <p>TOEFLiBT Home Edition scores are also accepted. Applicants whose native language is English should inquire individually [Note 1].</p>	<p>(1) Please refer to the following website for the scope of each subject. http://www.material.tohoku.ac.jp/admission/index.html</p> <p>* Applicants will be notified with detail separately when face to-face testing cannot be conducted to prevent the spread of new coronavirus infection.</p>
	General field-specific subjects	From 28 th Feb. (Mon.) to 2 nd March (Wed.) 40 minutes (Schedules etc. will be notified individually.)	Oral test in physics, chemistry, materials chemistry, materials science, materials processing.	
	Specialist examination [Note 2]	From 28 th Feb. (Mon.) to 2 nd March (Wed.) 40 minutes (Schedules etc. will be notified individually.)	An oral presentation on either the Master's Thesis or research carried out following completion of the Master's course.	
	Interview [Note 2]	2 nd March (Wed.) (Schedules etc. will be notified individually.)	<p>Suitability for entrance to the university with focus on Master's thesis or previous research work.</p> <p>International students may also be questioned about their Japanese ability.</p>	
	Short essay (Working Adults only)	1 st March (Tue.) 13:00-15:00	Medical engineering and medical science as well as health, medical, and welfare themes.	

[Note 1]: If originals of TOEFL®/TOEIC® score sheets are not submitted, the score for the English portion will be zero.

[Note 2]: Varies depending on the laboratory you wish to enter, as shown below.

If applying to enter a materials science lab: Specialist examination

If applying to enter a lab other than materials science: Interview

(If you are not certain if your intended lab is a materials sciences lab, inquire with your prospective academic advisor in the laboratory (field) you wish to study in, or with the Academic Affairs Section, Graduate School of Biomedical Engineering.)