



Global 30: Future Global Leadership (FGL)

2017 Academic Year
(October 2017 Enrollment)

Application Guidelines for International Graduate Programs in Engineering International Materials Science and Engineering Course (IMSE) Master's Degree Program

TOHOKU
UNIVERSITY

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Graduate School of Engineering
Tohoku University

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1. Admissions Policy

Tohoku University is committed to providing education and research programs of the highest international caliber. Drawing on a proud tradition, the many faculties, graduate schools, and associated research institutes are united in their aim to serve as a comprehensive center for the creation of knowledge, and as a research-oriented university centered on the graduate schools, which also collaborate with the faculties.

In the Tohoku University tradition of “Research First,” the Graduate School of Engineering is equipped with the staff and facilities necessary for carrying out cutting-edge research. The educational goal of the Graduate School is to develop researchers with outstanding abilities who are capable of original thinking, and engineers with highly specialized knowledge. They will be able to carry out their own creative research and play a major role in the progress and innovation of future science and technologies, rooted in a broad perspective and deep knowledge of humanity and nature, with the aim of realizing a safe, fulfilling society.

The Graduate School of Engineering looks for the following traits in prospective students.

- Fundamental scholastic abilities in engineering studies, and a compelling desire to study at the Graduate School of Engineering.
- The ability to develop original ideas and to undertake self-motivated research with great dedication.
- The ability to work cooperatively as part of a team and communicate with others.
- A deep interest in nature and human society, and a desire to contribute to human welfare by creating future technologies benefiting people and the environment.
- Wide-ranging knowledge and the flexibility to put that knowledge to use in order to become engineers and researchers capable of playing active roles internationally.

The International Materials Science and Engineering (IMSE) Master’s Course was established in October 2009. This course is one of the courses offered under the Global 30 program at Tohoku University, and is organized by the Graduate School of Engineering. The main aim of IMSE is to cultivate global-minded engineers and leaders who can take up active roles in the development of cutting-edge technologies based on materials science.

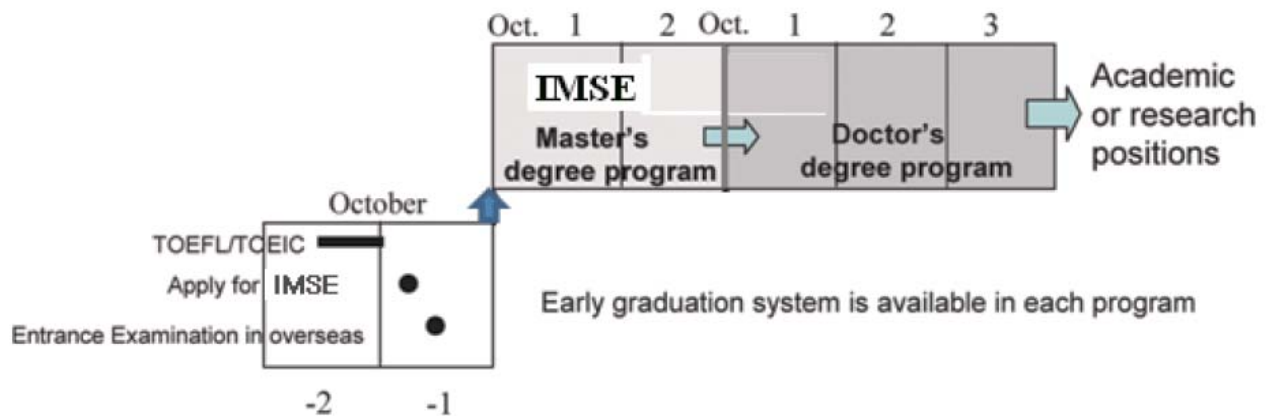
2. Outline of IMSE

The IMSE graduate programs were supported by the “Global 30” project. “Global 30” was a Ministry of Education, Culture, Sports, Science and Technology (MEXT) program to further promote the internationalization of core Japanese higher education institutions and to turn them into world-class international education and research centers. As one of the selected institutions under the Global 30 program, Tohoku University launched its Future Global Leadership (FGL) project in fall, 2009.

IMSE is one of the FGL programs aimed at enthusiastic global-minded international students who aspire to assume key international leadership roles in the future. All lectures in the IMSE program can be taken in English.

The schematic career-path in IMSE is shown in the figure below. The academic calendar of IMSE starts in October. Students are screened via an entrance examination held in February or March of the enrollment year. The examination is held not only in Japan, but overseas as well. This makes the application procedure more accessible for students outside of Japan.

Students can enroll in the IMSE master's program. As the master's program directly connects to the doctoral program in IMSE, students have the opportunity to conduct cutting-edge research throughout both graduate programs.



IMSE Program Career-path

The following five departments are participating in IMSE. Candidates will choose one department to enroll in from the three departments listed below:

- Metallurgy
- Materials Science
- Materials Processing

Details of scientific activities will be shown on the website below.

(<http://www.material.tohoku.ac.jp/english/index.html>)

The total number of annually accepted students is approximately 10.

3. Qualifications for Application

- Those who have received a university education in Japan as international students or at an overseas university are eligible to apply for the International Graduate Programs in Engineering.
- Applicants for the **Master's Degree Program** must fulfill one of the following requirements.

The applicant must:

- (1) Have graduated from university of Japan or expect to graduate by September 2017.
- (2) Have received a bachelor's degree under Article 104 Paragraph 4 of the School Education Law of Japan, or expect to receive such a degree by September 2017.
- (3) Have completed at least 16 years of school education overseas, or be scheduled to complete such education by September 2017.
- (4) Have completed at least 16 years of school education in Japan by taking correspondence courses offered by schools outside Japan, or expect to complete such education by September

2017.

- (5) Have completed a university education by taking courses designated by the Minister of Education, Culture, Sports, Science and Technology in an educational institution in Japan recognized as adopting the educational system of a foreign country and having the curriculum of that country (only when the person completing that education is regarded as having completed 16 years of that country's education), or expect to complete such education by September 2017.
- (6) Have completed a specialized course of a special training school designated by the Minister of Education, Culture, Sports, Science and Technology (only when the schooling is at least four years in length and other criteria stipulated by the Minister are met), on or after the date stipulated by the Minister, or expect to complete such a course by September 2017.
- (7) Have been designated as eligible by the Minister of Education, Culture, Sports, Science and Technology under ministerial ordinance No. 5 of 1953.
- (8) Have completed 15 years of school education in a foreign country, or have completed 15 years of school education in Japan by taking correspondence courses offered by schools outside Japan; or have completed a university education by taking courses designated by the Minister of Education, Culture, Sports, Science and Technology in an educational institution in Japan recognized as adopting the educational system of a foreign country and having the curriculum of that country (only when the person completing that education is regarded as having completed 15 years of that country's education), and is recognized by this Graduate School of Engineering as having obtained the necessary credits with excellent grades.
- (9) Have been admitted to the graduate school of another university in accord with Article 102 Paragraph 2 of the School Education Law and be recognized by this Graduate School as having suitable academic ability for study in this program.

Note: Applicants who do not satisfy the above qualifications should contact the Graduate Academic Affairs Section (see 12. Contact Information).

4. Period for Submission of Applications

(1) Deadline: January 10, 2017.

(2) Submission

(a) By mail or in person

All application documents should be received by the deadline to the address below. Applicants who intend to submit their applications in person should go to the office during office hours from 9:00 a.m. to 4:30 p.m. (The office is closed from 11:45 a.m. to 1:00 p.m.)

Mailing address:

Graduate Academic Affairs Section

Graduate School of Engineering

Tohoku University

6-6-04 Aramaki Aza Aoba, Aoba-ku, Sendai, Miyagi 980-8579, Japan

tel. +81-22-795-5820 (for mail and delivery service only)

5. Application Procedures

- Applicants applying for the Master's Degree Program should prepare the following documents in English or Japanese and submit them by the above deadline.

*** Submit original copies of all certification documents. Copies, digital files, or printouts of digital files are not considered to be original documents.**

Required documents	Notes
Application for admission	Use an official application form for the International Graduate Programs in Engineering.
Undergraduate transcript	Issued by the dean of the university from which the applicant has graduated. (Not required if already enrolled in the Tohoku University School of Engineering.)
Original of TOEFL/TOEIC score sheet Valid tests: TOEFL-PBT, TOEFL-iBT, TOEIC Public Test	Submitted originals of TOEFL/ TOEIC score sheets will not be returned. The TOEFL "Examinee Score Report" can be returned on the entrance examination day if you request this at the time of application.
Certificate of (expected) completion or of degree conferral	Issued by the dean of the university from which the applicant has graduated or by the NIAD (National Institution for Academic Degrees and University Evaluation, Japan).
*1 Photo ID and examination admission ticket	Photo (5cm high × 4cm wide) must show upper body, facing front with no hat, and have been taken within three months of application. Attach photo to the photo ID sheet.
Examination fee	This must be paid at the time of enrollment. (See 8.Enrollment Procedures etc.)
Written recommendation	Prepared by a supervising faculty member or equivalent from the applicant's university.
Other reference materials, if any	Academic publications demonstrating academic ability.

Applicants who live outside Japan should pay attention to the following notes.

- *1 Photo ID sheet is not required. Only the photo itself should be submitted.

* Acquiring VISA for Examination (Temporary Visitor VISA) *

Applicants who live outside Japan wishing to take the examination in Sendai and who need to acquire a “Temporary Visitor VISA (for the examination)” should receive an “examination permit” which our university will issue after we receive your application. Those who require us to issue an “examination permit” should include a request letter (any format) and include this letter with the application documents. Applicants are also required to send a photo (5cm high ×4cm wide) in addition to the photo for the “photo ID”. Please write your name and the department to which you have chosen to apply on the reverse side of the photo.

6. Examination and Selection

Examination dates: Wednesday, March 1 to Friday, March 3, 2017

Examination Venues: (Details will be sent directly to each applicant)

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

Outside of Japan: An oral examination will be conducted.

Applicants will be informed of the details individually.

Applicants to the International Graduate Programs in Engineering will be selected based on overall consideration of a written examination, oral interview examination, language proficiency, and the submitted documents.

7. Announcement of Results

Results are scheduled to be posted around 5:00 p.m. on Wednesday, March 8, 2017, on the central bulletin board for academic affairs of the Graduate School of Engineering.

Notification of results will also be mailed to applicants on the above date. Please note that results cannot be given in response to telephone inquiries.

The results will be made available on the following website.

<http://g30.eng.tohoku.ac.jp/imse/>

8. Enrollment Procedures, etc.

- (1) Details of the enrollment procedures will be announced when the acceptance letter is mailed in early September, 2017.
- (2) Fees to be paid at the time of enrollment
 - (a) Examination fee: 30,000 yen
 - (b) Admission fee: 282,000 yen (provisional)
 - (c) Tuition (first semester): 267,900 yen (annual 535,800 yen) (provisional)

Note 1: (b) and (c) are provisional. Should admission or tuition fees be revised, the new fees will become

applicable from the time of change.

Note 2: Information on the waiving of admission or tuition fees, or permission to defer payment to a later date, will be provided in the enrollment procedure documents sent after notification of results.

9. Financial Support

Presidential Scholarship in Tohoku University

The President of Tohoku University provides scholarships for foreign students with excellent grades. Ten students are selected annually.

Employment as a teaching assistant (TA)

There are employment opportunities for the students in the master's program to be employed as TAs. Details will be announced after enrollment.

10. Handling of Personal Information

- (1) The Tohoku University Graduate School of Engineering handles personal information in strict compliance with regulations stipulated in 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", and takes 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 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, depending on needs, 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".

11. Important Notes

- (1) Candidates should locate a possible research advisor at Tohoku University and contact him/her before submitting their application.
- (2) Applications by post are to be sent via means whereby you can retain a record of sending (such as FedEx, EMS, UPS etc).
- (3) Notification of the receipt of the application will not be provided automatically. Those desiring notification of receipt of application should make the appropriate request to the office via e-mail.
- (4) Submitted application documents and examination fees cannot be returned.

- (5) If you do not receive your examination admission ticket by ten days prior to the examination date, please contact the Graduate Academic Affairs Section, Graduate School of Engineering (See 12.Contact Information).
- (6) All other inquiries regarding application for admission should be made to the Graduate Academic Affairs Section, Graduate School of Engineering.
- (7) Applicants desiring consultation regarding the need for assistance or other considerations in taking the examination or conducting their studies should create a written application indicating the items listed below (no special format). Be assured that such a request will in no way prejudice the outcome of the selection process, as all applicants will be treated fairly.

* Deadline for consultation: As a rule, no later than Wednesday, December 7, 2016.

* Information to be indicated in creating the application:

- A) Name, address and phone number of applicant
- B) University, etc. from which the applicant has graduated
- C) Any consideration desired regarding taking the examination
- D) Any consideration desired in the study environment
- E) Nature of any consideration provided up to now
- F) Other relevant information about daily life circumstances
- G) Reference materials (if currently receiving medical treatment, enclose a medical certificate issued by your physician)

12. Contact Information

Graduate Academic Affairs Section, Graduate School of Engineering, Tohoku University

6-6-04 Aramaki Aza Aoba, Aoba-ku, Sendai, Miyagi 980-8579, Japan

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

<http://g30.eng.tohoku.ac.jp/imse/>

Appendix — Admission Screening Examination Schedule for October 2017 Enrollment in International Graduate Programs in Engineering
International Materials Science and Engineering Master Course (IMSE)

Departments	Subjects	Date and Time*	Description	Remarks
Metallurgy	English		Submit an original TOEFL or TOEIC score sheet with the application form. English-native applicants should contact the department regarding the necessity of the score sheet submission.	(1) The Oral examination may be waived depending on applicant's record shown on submitted transcripts. (2) For details on the scope of each subject, inquire with your department or consult the web site below. http://www.material.tohoku.ac.jp/english/index.html
	Physics	Wed.,Mar. 1~ Fri.,Mar. 3	Oral examination in physics.	
	Chemistry	Wed.,Mar. 1~ Fri.,Mar. 3	Oral examination in chemistry.	
Materials Science	Specialized subjects	Wed.,Mar. 1~ Fri.,Mar. 3	Oral examination in three subjects of Metallurgy , Materials Science and Materials Processing.	(3) Use of calculators and other devices such as watches and mobile phones with calculation or communication functions is not permitted. Applicants will be informed of details individually.. Inquiries: Department of Materials Science and Engineering, Academic Affairs Section e-mail: kyomu.material@grp.tohoku.ac.jp
Materials Processing	Short essay	Wed.,Mar. 1~ Fri.,Mar. 3	Prepare a short essay (800 words) in English or Japanese. The title of the short essay will be announced in advance.	

* Date & Time: for the examination in Sendai, Japan. (Applicants will be informed individually regarding details of the oral examination schedule)

The schedule for examinations conducted overseas will be announced in advance.