



Global 30: Future Global Leadership (FGL)

2023 Academic Year
(October 2023 Enrollment)

Application Guidelines for RictA: Robotics × ict × Architecture Program in International Mechanical and Aerospace Engineering Course (IMAC-G)

Master's Degree Program
Doctoral Degree Program

TOHOKU
UNIVERSITY

November 2022
Graduate School of Engineering
Tohoku University

Contents

1.	Admissions Policy	1
2.	Outline of IMAC-G	7
3.	Qualifications for Admission	9
4.	Requirements for Admission	12
5.	Submission of Applications	13
6.	Application Documents	15
7.	Examination and Selection	18
8.	Announcement of Results	19
9.	Enrollment Procedures, etc.	19
10.	Financial Support	19
11.	Eligibility for Long Term Study Program	20
12.	Handling of Personal Information	21
13.	Important Notes	21
14.	Contact Information	22

1. Admissions Policy

● Master's Course

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. Basic academic skills needed to learn engineering;
2. Logical thinking ability required to solve problems; and
3. Language proficiency sufficient to adapt to the global educational and research environment and to succeed in the world.

For this reason, the Graduate School of Engineering conducts Regular Selection, Special Selection for Working Adults, Special Selection for Foreign Students, Special Selection Program for Recommended Students, Selection for Students Expected to Graduate in September/Graduated, Special Selection for Early Graduate 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 the educational policies.

Applicants for Regular Selection, Special Selection for Foreign Students, Selection for Students Expected to Graduate in September/Graduated, Special Selection for Early Graduate Students, and Selection for International Degree Courses Offering Education in English will be selected by each department through appropriate procedures by combining the methods: a written examination etc. to evaluate basic knowledge and specialized knowledge in engineering, an oral interview to assess their aptitude, and the evaluation of language proficiency. The selection will be made by a comprehensive assessment.

Applicants for the Special Selection Program for Recommended Students will be selected by each department through appropriate procedures by combining the methods: an essay to evaluate their logical thinking ability and writing skills, an oral interview to evaluate their research plan and research motivation etc. If necessary, language proficiency will be also considered for the selection.

Applicants for the Selection for Working Adults will be selected by each department based on an

oral interview to evaluate their research plan, research motivation, etc. If necessary, the score of written examinations, such as the Regular Selection and language proficiency test, will be considered.

All new students are expected to have basic knowledge to understand advanced studies in the related fields and undertake research.

○ Educational Objectives and Goals

Staying true to the Tohoku University's traditional spirit of "Research First," "Open Doors," and "Practice-Oriented Research and Education," the Graduate School of Engineering is committed to achieving its educational objectives. One of these objectives is to develop researchers who act based on profound knowledge and broad perspective about nature and human beings, perform their research in an ethical, purposeful, and self-directed way to build safe, secure, and affluent society, and possess abundant creativity and high research skills that enable them to play a leading role in the future development and innovation of scientific technologies. Another educational objective of the School is to produce core technical experts who are equipped with not only a high-level of technical expertise but also a long-term vision and global viewpoint, and capable of making contributions to the sustainable development of our society.

Specifically, the educational goal of the Master's Degree Program is to endow students with a broad range of basic academic and language skills that are needed for the performance of research, as well as abilities to develop their research subjects by using unique ideas and present research theses at a public occasion. They are also expected to have basic skills and advanced techniques to perform a research or provide a research and technical guidance in their field of expertise.

○ Diploma Policy

The Tohoku University Graduate School of Engineering will award a master's degree in engineering to students who pass a review of their master's thesis or research results on a particular subject as well as a final examination. Students are also required to remain enrolled for a specific period of time, study a set of subjects that are offered in accordance with the School's educational objectives and goals, earn a specified number of credits, and demonstrate a high-level of ethical awareness and sense of responsibility, in addition to the following knowledge and skills:

1. A broad range of basic knowledge and academic skills that help students understand and explore the essence of their research subjects;
2. Profound knowledge about their fields of expertise;
3. Interdisciplinary knowledge relating to their fields of expertise;
4. System design skills obtained through the integration of knowledge outside their fields of expertise;

5. Ability to determine research subjects and problem-solving skills;
6. Advanced ability to perform, apply, and develop their research;
7. Language proficiency sufficient to perform their research; and
8. Basic ability to provide research or technical guidance.

○ 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. Help students acquire the broad range of knowledge, advanced technical expertise, and interdisciplinary knowledge relating to their fields of expertise that are necessary to understand the essence of their research subjects and perform their research;
2. Enable students to acquire advanced skills to work on their research subjects and develop these subjects with unique ideas; and
3. Provide students with the language proficiency necessary to perform their research and make presentations of the research results.

In order to execute the above policies, the Graduate School of Engineering offers Common Subjects, and each department offers Major Basic Subjects, Major General Subjects, and Related Subjects. The overall educational curriculum is presented in the curriculum map. The Major Basic Subjects are mainly provided in lecture-based courses. The Major General Subjects include lectures, seminars, and the Master Course Seminar 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. Seminar courses are provided to develop the students' ability to understand the research field from a diversified viewpoint, and research skills through presentations and discussions on the latest technologies or their own research results. The Master Course Seminar is provided to foster the ability to conduct and develop advanced research and language skills through individual research and writing a master thesis.

In the subjects provided in lecture-based courses, the faculty members in charge of the lecture will assess the student's basic knowledge, basic academic skill, specialized knowledge, etc. with regular examinations, reports, etc. Details of the grading method are described in the syllabus for each subject. In the seminars, department faculty members assess the student's ability to understand academic papers and technical materials through presentations and discussions. In the Master Course Seminar, the academic advisor will assess the student through their ability to develop

and conduct their own research with original ideas, present and discuss research content at academic conferences, present in a foreign language, provide technical guidance, write academic reports, etc., based on research activities in the laboratory, give presentations at domestic and international conferences, and through their master thesis and its defense.

● Doctoral Course

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, Special Selection for Foreign Students, and Selection for International Degree Courses Offering Education in English will be selected by each department through appropriate procedures by combining the methods: a written examination etc. to evaluate basic knowledge and specialized knowledge in engineering, language proficiency, and an oral interview to assess their aptitude. The selection will be made with an emphasis on the results of the written examination.

For Special Selection for Working Adults, the applicants will be selected by each department based on an oral interview to evaluate their research plan, research motivation, etc. If necessary, basic and specialized knowledge in engineering and an evaluation of their essay will also be considered in the selection process.

All new students are expected to have research experiences and basic knowledge to conduct independent research.

○ Educational Objectives and Goals

Staying true to the Tohoku University's traditional spirit of "Research First," "Open Doors," and "Practice-Oriented Research and Education," the Graduate School of Engineering is committed to achieving its educational objectives. One of these objectives is to develop researchers who act based on profound knowledge and broad perspective about nature and human beings, perform their research in an ethical, purposeful, and self-directed way to build safe, secure, and affluent society, and possess abundant creativity and high research skills that enable them to play a leading role in the future development and innovation of scientific technologies. Another educational objective of the School is to produce core technical experts who are equipped with not only a high-level of technical expertise but also a long-term vision and global viewpoint, and capable of making contributions to the sustainable development of our society.

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

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

○ Diploma Policy

The Tohoku University Graduate School of Engineering will award a doctoral degree in engineering to students who pass a review of their 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. Ability to embark on new research subjects and perform research from a panoramic perspective that takes social needs into account;
2. Ability to solve issues with unique ideas;
3. Thinking skills that have 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. Ability to provide research guidance; and
6. Basic ability to manage research or projects.

○ 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

- **RictA: Robotics × ict × Architecture Program**

The RictA: Robotics x ict x Architecture Program starts from October 2022, aiming to develop leaders who can design intelligent living and urban spaces that can quickly adapt to social changes, based on robotics and information science and technology. Students participating in the RictA will learn in the International Mechanical and Aerospace Engineering Course (IMAC-G). In addition, the program is also supported by professors of Department of Architecture and Building Science. The IMAC-G established in October 2009 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 IMAC-G is to cultivate global-minded engineers and leaders who can take up active roles in the development of cutting-edge technologies based on mechanical engineering.

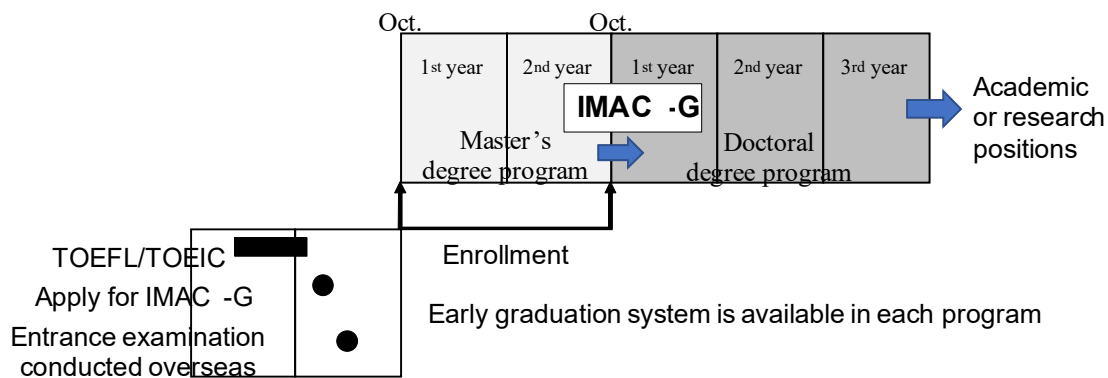
2. Outline of IMAC-G

The IMAC-G is one of the Future Global Leadership (FGL) Programs that were launched in fall, 2009, with the support of the “Global 30” project that 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.

The IMAC-G is aiming at enthusiastic global-minded international students who aspire to assume key international leadership roles in the future. All lectures in the IMAC-G program are conducted in English.

The schematic career-path in IMAC-G is shown in the figure below. The academic calendar of IMAC-G starts in October. Candidates applying for the RictA are screened via an entrance examination held in March in the enrollment year. The examination is held by on-line connection. This makes the application procedure more accessible for students outside of Japan.

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



IMAC-G Program Career-path

Candidates will choose one department to enroll in from the following five departments or department to which aspired laboratory participating in RictA*¹ belongs:

- Mechanical Systems Engineering
- Finemechanics
- Robotics
- Aerospace Engineering
- Architecture and Building Science

*¹ RictA: Robotics x ict x Architecture Program

List of laboratories of department of Architecture and Building Science can be found at https://www.eng.tohoku.ac.jp/media/files/pdf/english/admission/introduction/intro_e_archi.pdf

RictA cooperative laboratories in Graduate School of Information Sciences: [Dept. Applied Mathematical Science] Yamamoto Lab., Furusawa Lab., [Dept. Software Science & Systems] Kobayashi Lab. Sato Lab., [Dept. Intelligent Robotics] Okatani Lab., Hashimoto Lab. Kagami Lab., [Dept. Information & Applied Technology] Tadokoro Lab., Konyo Lab., Tadakuma Lab., [High Performance Computing] Takizawa Lab., [Integrated Fluid Informatics] Ishimoto Lab., [Flow System Informatics] Hattori Lab., Hirota Lab.

The total number of annually accepted students is 16 via the entrance examination.

In the RictA, students in master's program need to acquire ten credits from specified subjects related to RictA. Students in doctoral program need to acquire four credits from specified subjects related to RictA. The MEXT will award a scholarship to 8 successful candidates who are particularly excellent in the entrance examination (see 10. Financial Support).

3. Qualifications for Admission

- Those who have received a university education in Japan as international students or in an overseas university are eligible to apply for the RictA. (Japanese students who have graduated or expect to graduate from IMAC-U program are also eligible.)

- Applicants for the **Master's Degree Program** must fulfill one of the following requirements.

The applicant must:

- (1) Have graduated from Japanese university or expect to graduate by September 2023.
- (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 2023.
- (3) Have completed a 16-year curriculum of school education overseas, or expect to complete such education by September 2023.
- (4) Have completed a 16-year curriculum of school education in Japan by taking correspondence courses offered by schools outside Japan, or expect to complete such education by September 2023.
- (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 2023.
- (6) Have been conferred a degree equivalent to a bachelor's degree upon completion of a curriculum that has a course term of three years or longer at a university or other school (limited to schools whose overall educational and research activities have been evaluated by the relevant country's government or a government-approved individual, or are designated separately as having met this requirement by the Minister of Education) in a foreign country (including cases in which the student completed the curriculum by taking subjects conducted by said school via distance learning while the student resided in Japan, and cases in which the student has completed a curriculum at an educational facility that is positioned within that country's educational system as per the previous item).
- (7) 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 2023.
- (8) Have been designated as eligible by the Minister of Education, Culture, Sports, Science and Technology under ministerial ordinance No. 5 of 1953.

(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.

(10) Be aged 22 or above and, through individual admission qualification screening, be recognized by this Graduate School as having achieved at least the equivalent academic abilities of a university graduate.

Note 1: Applicants who are employed by Tohoku University should contact the Graduate Academic Affairs Section, Graduate School of Engineering in advance.

Note 2: Applicants should contact the (head of the) department in which they expect to major in advance regarding their research plans after enrollment.

Note 3: Applicants applying under qualification (6) should contact the Graduate Academic Affairs Section, Graduate School of Engineering in advance.

Note 4: Applicants applying under qualifications (9) to (10) will need to undergo admission qualification screening. Please contact the Mechanical Engineering Academic Affairs Section (See Remarks in the Appendix) in advance.

Note 5: The Graduate School of Engineering does not apply the qualification for admission regarding to “A person who was enrolled in a university for at least three years, and furthermore who is found, by the Tohoku University Graduate Schools, to have achieved excellent results in acquiring the prescribed credits;”

- Applicants applying for the Doctoral Degree Program must meet either one of the following requirements.

The applicant must:

- (1) Have earned a master's degree or professional degree, or expect to earn such a degree by September 2023.
- (2) Have earned a degree equivalent to a master's degree or professional degree, or expect to earn such a degree by September 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 September 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 September 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 September 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 following institutions (a) to (c), 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).

- (a) Foreign schools

- (b) Educational institutions which have the curriculum of a graduate program

- (c) The United Nations University

- (7) Meet either of the following criteria for eligibility specified by the Minister of Education, Culture, Sports, Science and Technology:

- (a) Have carried out research in a university or research institute, etc. for two or more years after graduating from university, and be recognized by this Graduate School as having achieved at least the equivalent academic abilities of someone with a master's degree on the basis of those research accomplishments.

- (b) Have carried out research in a university or research institute, etc. for two or more years after completing 16 years of course studies overseas, or after completing, in Japan, 16 years of foreign school course studies by means of correspondence courses conducted by foreign schools, and be recognized by this Graduate School as having achieved at least the equivalent academic abilities of someone with a master's degree on the basis of those research accomplishments.

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

Note 1: Applicants who are employed by Tohoku University should contact the Graduate Academic Affairs Section, Graduate School of Engineering in advance.

Note 2: Applicants should contact the (head of the) department in which they expect to major in advance regarding their research plans after enrollment.

Note 3: Applicants applying under qualification (7) should contact the head of the department in which they expect to major in advance regarding their qualifications to apply. The following documents will be needed for the procedure.

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

Note 4: Applicants applying under qualification (8) will need to undergo admission qualification screening. Please contact the Mechanical Engineering Academic Affairs Section (See Remarks in the Appendix) in advance.

4. Requirements for Admission

All applicants must satisfy the following two requirements:

(1) Applicants for both the Master's Degree and Doctoral Degree Program must have taken one of the following: TOEFL iBT, TOEFL PBT, TOEIC or IELTS (Academic Module). Scores are valid only within two years before the date of the Entrance Examination. By the time of their application, applicants must have obtained a score equal to or greater than that required by the school of engineering as shown below.

TOEFL	iBT	79 or higher
	iBT Home Edition	79 or higher
	PBT	550 or higher
TOEIC		730 or higher
IELTS		6.0 or higher

Applicants whose native language is English must contact the Graduate Academic Affairs Section (see 14. Contact Information) in advance if they want to omit submission of English proficiency test scores. Evidence that the applicants received formal education in English may be required to apply.

* TOEFL iBT's "My Best™ Score" will not be used for preliminary screening at Graduate School of Engineering.

* TOEFL, TOEFL iBT, TOEFL ITP and TOEIC are registered trademarks of Educational Testing Service (ETS)

(2) Applicants must have earned 2.30 or more evaluation point as calculated from their coursework grades in their latest submitted transcripts, as shown below.

Scale	Grade				
4-grade Scale	A		B	C	F
	100-80		79-70	69-60	59-
5-grade Scale	S	A	B	C	F
	A	B	C	D	F
	100-90	89-80	79-70	69-60	59-
Points	3	3	2	1	0
Total Credits	N4	N3	N2	N1	N0

$$\text{Evaluation Point} = \frac{(N4 + N3) \times 3 + N2 \times 2 + N1 \times 1 + N0 \times 0}{N4 + N3 + N2 + N1}$$

Note:

1. Applicants for the Master's Degree Program

Evaluation points are calculated based on the undergraduate transcript.

2. Applicants for the Doctoral Degree Program

Evaluation points are calculated based on graduate school (Master's course) transcripts.

5. Submission of Applications

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

The Application Period : 9:00 on January 4 (Wed) to 23:59 on January 13 (Fri), 2023 (Japan time)

[Registration 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.

<https://admissions-office.net/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 / IMAC-G & RictA / RictA” then follow the TAO system’s directions and the directions below to apply.

3. Please submit the following documents as PDF files 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 Graduate Academic Affairs Section, Graduate School of Engineering in advance.

4. Please be sure that the submission of application is completed on TAO system as below.

The left screenshot shows a dialog box titled "Complete my application". It contains a note: "[Note] All data will become uneditable after the completion of application. Please check again if all entries are completed." Below the note is a checkbox labeled "Apply after you review the above" which is checked. At the bottom are two buttons: "Cancel" and "Yes".

The right screenshot shows the "My applications" page. At the top, there are tabs for "Incomplete" and "Completed", with "Completed" being the active tab. Below the tabs is a table with the following columns: "Application status", "Application ID", "Admission Scheme", and "Application Deadline". The table contains one row with the following data: "Application completed" (with a star icon), "28574", "Tohoku University / Graduate School of Engineering / All Departments (Master's Programs) / 一般選抜", and an empty cell for the deadline.

- *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. If false declarations are discovered after the degree has been conferred, the degree already conferred may be revoked. In either case, the entrance and tuition fees paid will not be refunded.

[IMPORTANT] Those who pass the entrance examination and are admitted to the Graduate School of Engineering must submit original documents of their transcripts, graduation (or completion) certificates, and English Score Sheet at the time of enrollment 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.

6. Application Documents

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

Required documents	Notes
Application for admission	Fill in the application form for admission in the online application system.
CV	Download the prescribed CV file from the following URL. http://www.imac.mech.tohoku.ac.jp/
Letter of acceptance	Obtain a letter of acceptance from an expected supervisor. The official form can be downloaded from the following URL. http://www.imac.mech.tohoku.ac.jp/
Undergraduate transcript	Issued by the dean of the university from which the applicant has graduated. Grading system must be shown on the transcript or be provided on another document issued by the university.
TOEFL, TOEIC or IELTS score sheets Valid tests: TOEFL PBT, TOEFL iBT, TOEFL iBT Home Edition, TOEIC Public Test, IELTS–Academic Module	Scores are valid only within two years before the date of the Entrance Examination. The applicants whose native tongue is considered to be English must make a contact with Graduate Academic Affairs Section (see 14. Contact Information) in advance, if they want to omit the submission of English proficiency test score. The evidence that the applicants have received formal education in English may be required for the application. * TOEFL iBT's "My Best™ Score" will not be used for preliminary screening at Graduate School of Engineering. *TOEFL, TOEFL iBT, TOEFL iBT Home Edition, TOEFL ITP, and TOEIC are registered trademarks of Educational Testing Service (ETS).
Certificate of (expected) completion and/or degree conferral	Issued by the dean of the university from which the applicant has graduated
Duplicate of graduation thesis	If the applicant has written one. A research summary (approximately 2,000 characters, 2 A4–size pages) is acceptable.

Copy of Residence Record	Should be submitted by foreign applicants residing in Japan whose period of stay is over 90 days. The residence record should be issued within 3 months and indicates residence status without Individual Number.
Examination admission ticket and photo ID form	Download the prescribed examination admission ticket and photo ID form files from the following URL. http://www.imac.mech.tohoku.ac.jp/ 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.
Examination fee	This must be paid at the time of enrollment. (See 9. Enrollment Procedures, etc.)
Written recommendation	Prepared by the president or dean of the last university attended with an official seal, stamp or signature, and addressed to the president of Tohoku University. Later submission is allowed in case of difficulty in obtaining it by the deadline, but please ask the admissions office in advance. This can be prepared by a supervising faculty member or equivalent from the applicant's university if the applicant will not apply for the MEXT scholarship. ※Original Letter should be submitted later by post for MEXT scholarship.
Copy of passport, census register, or other proof of citizenship	Issued in English.
Address label	Fill in the necessary information on the address label in the online application system.
Other reference materials (optional)	Academic publications demonstrating academic ability.

- Applicants for **the Doctoral Degree Program** should prepare the following documents in English or Japanese and submit them by the above deadline.

Required documents	Notes
Application for admission	Fill in the application form for admission in the online application system.
CV	Download the prescribed CV file from the following URL. http://www.imac.mech.tohoku.ac.jp/

Letter of acceptance	Obtain a letter of acceptance from an expected supervisor. The official form can be downloaded from the following URL. http://www.imac.mech.tohoku.ac.jp/
Graduate school transcript	Issued by the dean of the graduate school from which the applicant has graduated. Grading system must be shown on the transcript or be provided on another document issued by the university.
TOEFL, TOEIC or IELTS score sheets Valid tests: TOEFL PBT, TOEFL-iBT, TOEFL iBT Home Edition, TOEIC Public Test, IELTS-Academic module	Scores are valid only within two years before the date of the Entrance Examination. The applicants whose native tongue is considered to be English must make a contact with Graduate Academic Affairs Section (see 14. Contact Information) in advance, if they want to omit the submission of English proficiency test score. The evidence that the applicants have received formal education in English may be required for the application. * TOEFL iBT's "My Best™ Score" will not be used for preliminary screening at Graduate School of Engineering. *TOEFL, TOEFL iBT, TOEFL iBT Home Edition, TOEFL ITP, and TOEIC are registered trademarks of Educational Testing Service (ETS).
Certificate of (expected) completion and/or degree conferral	Issued by the dean of the university from which the applicant has graduated
Undergraduate transcript	Issued by the dean of the university from which the applicant has graduated. Grading system must be shown on the transcript or provided on another document issued by the university.
Duplicate of master's thesis	If the thesis cannot be submitted, a research summary (approximately 2,000 characters, 2 A4-size pages) is acceptable.
Copy of Residence Record	Should be submitted by foreign applicants residing in Japan whose period of stay is over 90 days. The residence record should be issued within 3 months and indicates residence status without Individual Number.
Examination admission ticket and photo ID form	Download the prescribed examination admission ticket and photo ID form files from the following URL. http://www.imac.mech.tohoku.ac.jp/ 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.
Examination fee	This must be paid at the time of enrollment. (See 9. Enrollment Procedures, etc.)
Written recommendation	Prepared by the president or dean of the last university attended with an official seal, stamp or signature, and addressed to the president of Tohoku University. Later submission is allowed in case of difficulty in obtaining it by the deadline, but please ask the admissions office in advance. This can be prepared by a supervising faculty member or equivalent from the applicant's university if the applicant will not apply for the MEXT scholarship. ※Original Letter should be submitted later by post for MEXT scholarship.
Copy of passport, census register, or other proof of citizenship	Issued in English.
Address label	Fill in the necessary information on the address label in the online application system.
Other reference materials (optional)	Academic publications demonstrating academic ability.

- Applicants who wish to apply for MEXT scholarship, please check the box about the MEXT scholarship in the Application for admission. Necessary forms for MEXT will be provided after you complete the submission of application documents.

7. Examination and Selection

Examination date: February 21, 2023

Examination venue: Online (Details will be sent directly to each applicant.)

Selection Method:

Preliminary screening will be based the submitted documents and applicants will be notified of the results prior to the technical presentation and written examination (see Appendix). Only those who have passed the preliminary screening are eligible to make the presentation and take the written examination. Successful applicants will be selected based on their overall scores in the technical presentation and the written examination, language proficiency, and the submitted documents.

Details about examination will be informed directly to each applicant from the Mechanical

8. Announcement of Results

Results are scheduled to be posted around 5:00 p.m. on Wednesday, March 8, 2023, on the website (<http://www.imac.mech.tohoku.ac.jp/>)

Notifications of results will also be mailed to applicants who pass the entrance examination on the above date. Please note that results cannot be given over the telephone.

9. Enrollment Procedures, etc.

- (1) Details of the enrollment procedures will be announced by your prospective laboratory in September, 2023. If you have any questions concerning enrollment procedures, please contact the laboratory staff.
- (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)
- (3) **Original documents of transcripts, graduation (or completion) certificates (not required for graduates of the School of Engineering, Tohoku University), and English Score Sheet must be submitted.**

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

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 procedure documents sent after the notification of results.

10. Financial Support

MEXT scholarship

Since the RictA are supported by MEXT, there is a quota for MEXT scholarships offered to IMAC-G students participating in the RictA. Tohoku University will recommend 5 doctoral students and 3 master students with particularly excellent entrance examination results for the MEXT scholarship, following the guidelines set by MEXT. (The number of applicants and their country of origin, as well as the number of successful applicants and their country of origin, will ultimately determine the number of applicants who can be recommended to MEXT.)

If selected for this scholarship, they will receive 146,000 (147,000)* yen monthly for the master's (doctoral) program. (This stipend may change each fiscal year.) Candidates from the master's (doctoral) program will be supported for two years (three years) as long as they maintain a certain

evaluation point average during the program. They will also receive an economy-class air ticket from the international airport closest to their residence to Narita International Airport after enrolling, and another ticket upon graduation (for the return trip). They will not have to pay the entrance fee and tuition.

Only international students were born on or after April 2, 1988 are eligible.

*The amount is provisional.

Employment as a research assistant (RA) or teaching assistant (TA)

There are opportunities for non-MEXT-scholarship students in the doctoral program to be employed as RAs, and for those in the master's program to be employed as TAs. The details will be announced after enrollment.

11. 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 two years in order to receive their master's degree and three years for doctoral 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 master's students pay the same amount over the length of their studies as those enrolled in the standard two-year program. 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 course 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 normal period of study.

Note 1: To be eligible for this program, the applicant who (1) is employed by a company or be self-employed, (2) needs maternity leave, or is engaged in child or family care, or (3) is 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 four years for Master's Program, and six years for Doctoral Program, 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.

12. 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” 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, and student support after enrollment (e.g., scholarships, tuition waiver, and 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”.

13. Important Notes

- (1) Submitted application documents and examination fees cannot be returned.
- (2) If you do not receive your examination admission ticket by ten days prior to the examination date, please contact the Mechanical Engineering Academic Affairs Section (See Remarks in the Appendix).
- (3) All other inquiries regarding application for admission should be made to the Graduate Academic Affairs Section, Graduate School of Engineering.
- (4) Applicants desiring consultation regarding the need for special 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 November 30, 2022.

* 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 special considerations desired regarding taking the examination
- D) Any special considerations desired in the study environment
- E) Nature of any special considerations provided up to now
- F) Other relevant information about daily life circumstances
- G) Reference materials (if currently receiving medical treatment, enclose a medical certificate)

issued by your physician)

- (5) We have established Tohoku University Security Export Control Rules based on the Foreign Exchange and Foreign Trade Act, and screen 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.

14. 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

Homepage: <http://www.imac.mech.tohoku.ac.jp/>

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