



# ***JICA Scholarship Course***

## **OVERVIEW INFORMATION ON**

### **Disaster Risk Reduction (DRR) Leaders Capacity Development for the Sendai Framework Implementation (FY2022)**

### **留学生プログラム「仙台防災枠組に貢献する防災中核人材育成」 2022年度**

This information pertains to one of the Japan International Cooperation Agency (JICA)'s Knowledge Co-Creation Program (Long-Term). This handout gives current information on the overview of the program. It may change depending on the situation and more precise information will be provided in case of any changes. This program will be implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both governments.

Each country may have its own schedule and/or qualifications for the program. Please contact JICA office in your country if you have any questions.

In the context of the COVID-19 pandemic, please note that there is a possibility that the any changes will occur.

# **I. Overview**

## **Background**

Across the world, the number of natural disasters has increased in recent years, and in particular, there was a remarkable increase in economic damage. Disasters tend to occur in hazardous areas repeatedly and have huge impact on lives, livelihood and local economy, especially those in lower income brackets. Consequently, disaster risk reduction is regarded critical for sustainable economic growth.

Sendai Framework for Disaster Risk Reduction 2015–2030 was adopted at the Third UN World Conference on Disaster Risk Reduction held in March 2015, as a framework aiming to “substantially reduce disaster risk, and the loss of lives and livelihoods”. The Sendai Framework aligns the post 2015 development agenda such as Sustainable Development Goals (SDGs) and Paris Agreement. In the Sendai Framework, seven global targets were agreed and each country has a primary responsibility to implement and monitor the Sendai Framework in accordance with the Guiding Principal of that.

Japan is the one of the disaster-prone countries in the world and has a long history to coexist with natural hazards such as earthquakes, tsunamis, typhoons, floods and landslides. Given this, experiences on disaster risk reduction against these hazards in Japan has generated unique “culture of disaster risk reduction” and various DRR knowledge and activities have been passed down through the generations since old times. Based on the accumulation of experience, Japan is well known for the DRR leading country in the present day. During the formulation process of the Sendai Framework, Japan reiterated the importance of “Investment in Disaster Risk Reduction”, “Strengthening Central Disaster Risk Reduction Administration” and “Build Back Better” and these concepts were accepted in the framework.

Thus it will be the best opportunity to study and research on DRR field in Japan for deepening the understanding of the Sendai Framework and learning advanced DRR knowledge and technologies

**Objectives**

Disaster Risk Reduction (DRR) Leaders Capacity Development for the Sendai Framework Implementation (FY2022) is a Master/Doctor Degree Scholarship Program specially provided by the Japan International Cooperation Agency (JICA) in collaboration with Japan's top-ranked universities, which shall be implemented as part of the Official Development Assistance of the Government of Japan.

This Program provides excellent study and research opportunity for to-be leaders of DRR field to acquire high-level competence comprehensively covering both academic studies and practical knowledge.

The Program consists of a regular graduate program for study and research related to DRR at a Japanese university and additional DRR programs.

## II. Course Outline

### 1. Title

Disaster Risk Reduction (DRR) Leaders Capacity Development for the Sendai Framework Implementation (FY2022)

### 2. Duration and Academic Year

Master Degree      2 years (October 2022 – September 2024)

Doctor Degree      3 years (October 2022 – September 2025)

### 3. Target Countries

Philippines, Vietnam, Indonesia, Myanmar, Fiji, India, Sri Lanka, Mongol, Nepal, Bangladesh, Pakistan, Iran

### 4. Target Organization

Central/National DRR agency and DRR-related agencies

### 5. Target Personnel

#### (1) Essential Requirement

- ✓ Personnel working at target organizations
- ✓ Practical experience in DRR field especially working at governmental agencies
- ✓ Educational Background (at least Bachelor Degree)
- ✓ Linguistic skills required to take courses and receive research guidance in **English** (You must meet English requirements described in the application guidance of each university.)
- ✓ Good health, both physically and mentally, to participate in the Program in Japan
- ✓ Other requirements for application to each university such as GPA, etc.

#### (2) Recommendable Qualifications

- ✓ Those who are expected to play a leading role in Disaster Risk Reduction in the future
- ✓ Those who have flexible adaptability and receptivity for study and research in a foreign country
- ✓ Age of under 35 years old for a master degree or 40 years old for a doctoral degree
- ✓ More than five (5) years of working experience in DRR

### 6. Number of participants

Maximum 5 participants

### 7. Language to be used in this program

English

### 8. Overall Goal

Participants will be pro-Japan leaders on DRR field in their countries and contribute to implementing the Sendai Framework and playing a vital role in leading the discussion on international level.

## 9. Program Purpose

Participants of the Long-term Program are expected:

- (1) To obtain Master's or Doctor's degree in Japanese Universities
- (2) To learn Japanese experiences and knowledge on disaster risk reduction
- (3) To enhance relationship and network among participants and DRR human resources in Japan

## 10. Program Outlines:

The program consists of three (3) large components as below.

### (1) Study and research (Master/doctor degree course)

- ✓ Acquire theoretical knowledge systematically
- ✓ Improve the ability to solve problems through research activities
- ✓ Acquire master/doctor degree in the following Universities/Schools/Departments;

| University   | School                                  | Department/Lab   |
|--|---|--|
| Tohoku University                                      | Graduate School of Science              | - Department of Geophysics<br>- Department of Earth Science  |
|  | Graduate School of Information Sciences | - Department of Human-Social Information Sciences, Infrastructure Planning Division  |
|  | Graduate School of Engineering          | - Department of Civil and Environmental Engineering  |
| National Graduate Institute for Policy Studies (GRIPS) | -                                       | - Disaster Management Ph.D. Program (Doctor only)<br><b>collaborated with "International Centre for Water Hazard and Risk Management (ICHARM)"</b> |

Please refer the Annex 1 for the detailed information on the available universities/departments.

### (2) Additional DRR program

JICA will provide additional program for the purpose to improve practical abilities, strengthen networks and deep understanding of Japanese DRR field knowledge.

### (3) Common program (Optional)

In addition to the above-mentioned programs, JICA will implement the common programs for JICA participants. Some programs will be conducted by JICA domestic offices to promote international exchanges and cultural understandings between JICA participants and regional residents.

Also JICA will conduct a program, offering participants an opportunities to gain a deep understanding of the Japanese development experience, and to draw lessons and gain insights that will support their development work in their home countries and internationally.

### III. Application Guidance

Selection process contains the following steps. Please find the Annex 2 “Selection Schedule” for the detailed schedule.

1. Course Entry to JICA
2. Matching Process (Tohoku University only)
3. University’s Academic Selection
4. JICA’s Selection
5. Final Acceptance Decision by JICA

#### 1. Course Entry to JICA

Applicants to the course must submit the completed entry format (Attached Document 1) to JICA Office in your country by the closing dates through the appropriate procedure of your country. The closing date is defined by the JICA office in each country based on the following timelines; therefore, please inquire the closing date for the entry of each schedule to the JICA office in your country.

- Schedule A Entry shown in as the Annex 2: the JICA office will inform them to the JICA Headquarter in JAPAN by **September 30, 2021** for
  - Tohoku University (Graduate School of Science, Graduate School of Information Sciences, Graduate School of Engineering)
- Schedule B Entry shown in as the Annex 2: the JICA office will inform them to the JICA Headquarter in JAPAN by **February 8, 2022** for
  - National Graduate Institute for Policy Studies (GRIPS) PH.D Program collaborated with “International Centre for Water Hazard and Risk Management (ICHARM)”

Note:

- A) Please be informed that schedule for Tohoku University (Graduate School of Information Sciences, Graduate School of Engineering) has been changed from the last year. Schedule A is for Tohoku University, and Schedule B is for GRIPS-ICHARM course.
- B) This entry process is essential to accept an applicant as a JICA Scholarship Course.
- C) Prior to submitting the entry format to the JICA Office, please carefully confirm that you meet the application requirement (ex: English skill, evaluation point, etc.) of the interested department or program and describe the result on the entry format.

#### **ATTENTION!**

You must confirm requirements for application of each university/department. Some information may be updated or revised.

- Graduate School of Science, Tohoku University

See Annex3 (the example of application document list of FY2021).

- Graduate School of Information Sciences, Graduate School of Engineering, Tohoku University (common application guidance for 2 schools and institute) (See Annex 4 and 5)  
<http://www.civil.tohoku.ac.jp/english/I-CEEC/admission/index.html>
- National Graduate Institute for Policy Studies (GRIPS) PH.D Program collaborated with “International Centre for Water Hazard and Risk Management (ICHARM)”;  
[http://www.icharm.pwri.go.jp/training/phd/phd\\_index.html](http://www.icharm.pwri.go.jp/training/phd/phd_index.html)

- D) Matching procedure will be based on information described in the submitted entry format. Especially, research theme is very critical information to consider the available supervisor; therefore please carefully explain details within 200 words.
- E) JICA will not accept or consider any entries received after the stated deadline or any incomplete entry formats.
- F) You must follow the governmental procedure to submit the entry format to JICA Office in your country.
- G) You must not contact universities directly until the completion of next matching procedure.

## 2. Matching Process (Tohoku University only)

JICA provides entry information to the Tohoku University and the university conducts the Matching Process. The result of the Matching Process will be mainly judged by whether there is the available supervisor who can instruct the research theme or not. The result is informed by JICA Office in your country and only applicants who pass the Matching Process can apply for the next step (university application).

Note:

- A) Generally, Matching Process will be proceeded based on information described in the submitted entry format; however, the university contacts to an applicant to clarify some points as needed.
- B) Only for applicants to Graduate School of Science  
Please choose more than one potential matching supervisors from faculty members of Departments of Geophysics and Earth Science. Please refer Annex 6 and home pages of each department for your choices.
- C) Applicants for **GRIPS/ICHARM Disaster Management Ph.D. Program** do not need this Matching Process. Please proceed to the next step of academic application to the university.

## 3. University’s Academic Selection

Applicants who pass the Matching Process submit required documents in accordance with the application guidance of the applied university/department.



Application qualifications, procedures and application period vary depending on each university/ department; therefore, please access to the website or contact to the admission division of the university to confirm the latest information and schedule. The academic selection will be made by each university based on the application, academic transcripts, related documents, screening and interview processes including an Internet-based interview, etc. Notifications of academic selection results will be announced by the applied university.

Note:

Examination fee will be covered by JICA for each university.

**For the applicants to the Graduate School of Engineering, Tohoku University**; please be noted that the submission of English proficiency test scores is essential for your application such as TOEFL iBT, TOEFL PBT, TOEIC or IELTS except in special cases. Please plan to take the test and obtain the required score before applying. Detailed information is shown in the Annex 5.

#### **4. JICA's Selection**

- (1) The applicants who applied for the university application must submit the essay about the following theme to the JICA Office in your country within 1 month after the submission of university's application.
  - A) Theme: My Contribution to achievement of the Sendai Framework in my country after the JICA Scholarship Course
  - B) Key questions: You need to include your thoughts to the following questions in the essay
    - What is the most critical issue or challenge to achieve the Sendai Framework in your country?
    - What would you like to learn through this course to solve the issue or challenge mentioned above?
    - How will you utilize your experience and learning from the course after returning to your country?
  - C) Format: Free format by using Microsoft Word or text editor within 800 words
- (2) The result of JICA's selection based on the university's selection and essay evaluation is informed within 1 week after the result notification by the university. The applicant who passes JICA's selection is called as 'candidate'.

#### **5. Final Acceptance Decision by JICA**

- (1) Submission of required documents for acceptance decision  
In response to passing the JICA selection, each candidate is required to submit the "Required documents" listed in as below **by the end of July 2022** to JICA office in your country in accordance with the appropriate procedure of your country.

Required Documents

- A) JICA Application Form for the JICA Knowledge Co-Creation Program

- B) A passport copy (for checking nationality, name, sex, and date of birth).  
\*National ID and birth certificate are acceptable as a draft document if the participant does not have a passport. Certified English translation must be attached if ID is not written in English
- C) 2 ID photos (4cm × 3cm) pasted on application form (Original and copy) and another 6 same photos.
- D) Health certificate with the JICA's specific format

(2) Announcement of acceptance decision

JICA confirms there are no issues such as diplomacy, health, etc. and makes a final acceptance decision with submitted documents by the middle of August 2021. With this, a candidate will be officially approved as a participant of JICA Scholarship Course.

**6. Administrative Information**

Please refer the Attached Document 2 “Handbook for JICA Scholarship Courses” about the general rules and conditions for JICA Scholarship Courses.

**Attached Documents**

1. Entry format (MS Excel sheet)
2. Handbook for KCCP for JICA Scholarship Courses 2020

## **IV. ANNEX:**

### **Annex 1 Universities and Program Information**

**1. National Graduate Institute for Policy Studies (GRIPS) collaborated with International Centre for Water Hazard and Risk Management (ICHARM)**

Disaster Management Ph.D. Program **Doctoral course only**

[http://www.icharm.pwri.go.jp/training/phd/phd\\_index.html](http://www.icharm.pwri.go.jp/training/phd/phd_index.html)

Keywords: Water-related disasters, Disaster risk management policy

Target Groups : Officials and researchers with either natural or cultural/social sciences who are highly motivated to study science-based policy making.

This program is designed for individuals who aspire to master science, technology, and policy studies in water-related risk management, thereby becoming highly skilled professionals who can train other researchers and practitioners and take leadership in planning and implementing practical strategies and policies at national and international levels to contribute to the sustainable development of their countries and regions through disaster risk reduction.

**2. Tohoku University Both Master's and Doctoral degrees**

**(1) Graduate School of Science**

<https://www.sci.tohoku.ac.jp/english/>

① Department of Geophysics

Keywords: Solid earth physics (seismology, geodesy, volcanology), Atmospheric and oceanic sciences (meteorology, physical oceanography), Planetary and space physics

<http://www.gp.tohoku.ac.jp/index-en.html>

② Department of Earth Science

Keywords: Geo-environmental science (geology, paleontology, geography, geochemistry), Earth and planetary materials science (petrology, mineralogy, resource geology, geochemistry)

<http://www.es.tohoku.ac.jp/EN/index.html>

**(2) Graduate School of Information Sciences (GSIS) - Infrastructure Planning**

<https://www.is.tohoku.ac.jp/en/>

① Transportation and Geographic Information Science

Keywords: Traffic Control, Geographic Information Science, Spatial Statistical Analysis

[https://www.is.tohoku.ac.jp/en/laboratory/list\\_dept/c11.html](https://www.is.tohoku.ac.jp/en/laboratory/list_dept/c11.html)

② Regional and Urban Planning

Keywords: Project evaluation, Urban/regional planning process and policy, Urban/transport planning

[https://www.is.tohoku.ac.jp/en/laboratory/list\\_dept/c12.html](https://www.is.tohoku.ac.jp/en/laboratory/list_dept/c12.html)

③ Road Transportation and Traffic

Keywords: Transportation planning, Spatial economic systems, Infrastructure,

System optimization, Mathematical programming, Equilibrium problems  
[https://www.is.tohoku.ac.jp/en/laboratory/list\\_dept/c13.html](https://www.is.tohoku.ac.jp/en/laboratory/list_dept/c13.html)

(3) Graduate School of Engineering, Department of Civil and Environmental Engineering

<http://www.civil.tohoku.ac.jp/english/index-e.html>

Keywords: Infrastructure, Water Environment

① Infrastructural Engineering Course

- Mathematical System Design: <http://msd.civil.tohoku.ac.jp/english/>
- Mechanics of Materials: <http://mm.civil.tohoku.ac.jp/>
- Concrete Engineering: <http://cm.civil.tohoku.ac.jp/>
- Geotechnical Engineering: <http://soil1.civil.tohoku.ac.jp/>
- Structural Mechanics :<http://mechanics.civil.tohoku.ac.jp/c-indexe.html>
- Structural Design Engineering: <http://design.civil.tohoku.ac.jp/c-indexe.html>
- Advanced Infrastructure Systems: <https://yu-otake.tech/>
- Computational Safety Engineering: <http://soil1.civil.tohoku.ac.jp/>

② Water Environmental Studies Course

- Hydro-Environment System: <http://kaigan.civil.tohoku.ac.jp/HEST/>
- Environnemental Hydrodynamics:  
<http://donko.civil.tohoku.ac.jp/c-indexe.html>
- Environmental Protection Engineering:  
<http://ep1.civil.tohoku.ac.jp/index.html>
- Water Quality Engineering : <https://waterqualitytohoku.com/en/>
- Ecological Engineering: <http://www.eco.civil.tohoku.ac.jp/>
- Environmental Change Research:  
<http://potential1.civil.tohoku.ac.jp/index-e.html>
- Tsunami Engineering: <http://www.tsunami.civil.tohoku.ac.jp/hokusai3/E/>
- Remote Sensing and Geoinformatics for Disaster Management:  
<http://www.regid.irides.tohoku.ac.jp/index-en.html>

③ Transportation and Urban Planning Course

- Disaster Area Support:  
<https://irides.tohoku.ac.jp/eng/organization/humansociety/02.html>
- Disaster Reconstruction design and Management:  
<https://irides.tohoku.ac.jp/eng/organization/faculty/infosociety/hirano.html>

## Annex 2 Selection schedule

|  |       |   |   |  | As of May 14, 2021   |  |
|--|-------|---|---|--|--|--|
| <b>Selection Schedule for JICA Scholarship Program</b><br><b>"Disaster Risk Reduction (DRR) Leaders Capacity Development for the Sendai Framework Implementation (FY2022)"</b> |       |   |   |  |  |  |
| Year   | Month | Schedule A  |   |  | Schedule B   |  |
|  |       | Tohoku University, Graduate School of Science                                       | Tohoku University, Graduate School of Information Science, Graduate School of Engineering | GRIPS/ICHARM, Disaster Management Ph.D Program |  |  |
| 2021   | May   | Early   |   |  |  |  |
|  |       | Mid   | JICA announces the selection information with Overview Information                        |  |  |  |
|  |       | Late  |   |  |  |  |
|  | Jun   | Early   |   |  |  |  |
|  |       | Mid   |   |  |  |  |
|  |       | Late  |   |  |  |  |
|  | Jul   | Early   |   |  |  |  |
|  |       | Mid   |   |  |  |  |
|  |       | Late  |   |  |  |  |
|  | Aug   | Early   |   |  |  |  |
|  |       | Mid   |   |  |  |  |
|  |       | Late  |   |  |  |  |
|  | Sep   | Early   |   |  |  |  |
|  |       | Mid   | JICA announces the detailed selection information   |  |  |  |
|  |       | Late  | Submission of the completed entry format to JICA HQ by September 30                       |  |  |  |
|  | Oct   | Early   | Matching Process  |  |  |  |
|  |       | Mid   | (The result may be informed by the middle of October)                                     |  |  |  |
|  |       | Late  |   |  |  |  |
| Nov  | Early |   |   |  |  |  |
|  | Mid   | Submission of the application documents to the University by the middle of November |   |  |  |  |
|  | Late  |   |   |  |  |  |
| Dec  | Early |   |   |  |  |  |
|  | Mid   | Submission of the Essay to JICA Office by the middle of December                    |   |  |  |  |
|  | Late  |   |   |  |  |  |
| 2022   | Jan   | Early   | Submission of the application documents to the University by early January                |  |  |  |
|  |       | Mid   | Academic examination  |  |  |  |
|  |       | Late  |   |  |  |  |
|  | Feb   | Early   | Notification of the result of academic selection  |  | Submission of the Essay to JICA Office by early February               |  |
|  |       | Mid   | Notification of the result of JICA's selection by mid February                            |  | Deadline to submit the completed entry format to JICA HQ by February 8 |  |
|  |       | Late  | Academic examination  |  |  |  |
|  | Mar   | Early   | Notification of the result of academic selection  |  |  | Submission of the application documents to the University by early March |
|  |       | Mid   | Notification of the result of JICA's selection by mid March                               |  |  |  |
|  |       | Late  |   |  |  |  |
|  | Apr   | Early   | Submission of the Essay to JICA Office by early April                                     |  |  |  |
|  |       | Mid   |   |  |  |  |
|  |       | Late  |   |  |  |  |
|  | May   | Early   |   |  |  |  |
|  |       | Mid   |   |  |  |  |
|  |       | Late  | Academic examination  |  |  |  |
|  | Jun   | Early   |   |  |  |  |
|  |       | Mid   |   |  |  |  |
|  |       | Late  | Notification of the result of academic selection  |  |  |  |
| Jul  | Early | Notification of the result of JICA's selection by early July                        |   |  |  |  |
|  | Mid   |   |   |  |  |  |
|  | Late  | Submission of required documents for acceptance decision                            |   |  |  |  |
| Aug  | Early |   |   |  |  |  |
|  | Mid   | Final Acceptance decision   |   |  |  |  |
|  | Late  |   |   |  |  |  |
| Sep  | Early |   |   |  |  |  |
|  | Mid   |   |   |  |  |  |
|  | Late  | Arrival at Japan  |   |  |  |  |
| Oct  | Early | Academy year starts   |   |  |  |  |
|  | Mid   |   |   |  |  |  |
|  | Late  |   |   |  |  |  |

## Annex 3 Example of application document list of Tohoku University (Graduate School of Science)

For your reference, please find the following list for FY2021 application documents. The necessary forms will be sent to the applicants who pass the Matching Process.

| JICA_TU 2021 Application Documents & Checklist              |  | Major                    | _____  |
|---|--|--------------------------|--|
|   |  | Name                     | _____  |
| *Place check marks to the appropriate boxes (or choose "■") |  |                          |  |
|   | Documents  | Check                    | Remarks  |
| 1   | Form 1: Application for Admission  | <input type="checkbox"/> |  |
| 2   | Form 2: Statement of Reason for Applying for the Program   | <input type="checkbox"/> |  |
| 3   | Form 3: Research Proposal  | <input type="checkbox"/> |  |
| 4   | Form 4: Summary of Past Research and/or Job Experience   | <input type="checkbox"/> |  |
| 5   | Form 5: List of Publications, Presentations, and Awards  | <input type="checkbox"/> |  |
| 6   | <b>Official academic transcript(s)</b> (both from undergraduate & graduate programs are required for applicants of the doctoral program)                       |                          |  |
|   | Transcripts of Undergraduate Program   | <input type="checkbox"/> |  |
|   | Transcripts of Graduate Program  | <input type="checkbox"/> |  |
| 7   | <b>Certificate(s) of graduation or photocopy of diploma(s)</b> (both from undergraduate/graduate programs are required for applicants of the doctoral program) |                          |  |
|   | <b>Undergraduate</b> (either one of the followings)  |                          |  |
|   | •Certificate of Graduation   | <input type="checkbox"/> |  |
|   | •Bachelor Diploma  | <input type="checkbox"/> |  |
|   | <b>Graduate Program(s)</b> (either one of the followings)  |                          |  |
|   | •Certificate of Graduation   | <input type="checkbox"/> |  |
|   | •Master's Diploma  | <input type="checkbox"/> |  |
| 8   | <b>Document(s) to prove academic ability:</b> at least ONE of the followings but NOT more than 3 materials   |                          |  |
|   | 1) Bachelor thesis in full with English abstract   | <input type="checkbox"/> |  |
|   | 2) Master thesis in full with English abstract   | <input type="checkbox"/> |  |
|   | 3) Research papers published in journals or conference proceedings   | <input type="checkbox"/> |  |
|   | 4) GRE® Test score report  | <input type="checkbox"/> |  |
|   | 5) Other ( )   | <input type="checkbox"/> |  |
| 9   | <b>Document(s) to prove English ability:</b> at least ONE of the followings  |                          |  |
|   | 1) Score report of TOEFL iBT® Test, TOEFL PBT® Test, or IELTS  | <input type="checkbox"/> |  |
|   | 2) Score report of other English tests<br>(Tests conducted at your university, organized locally, TOEFL ITP®, and TOEIC® fall into this category)              | <input type="checkbox"/> |  |
|   | 3) Certificate/letter/website to show that the medium of instruction (of undergraduate/graduate program) was English   | <input type="checkbox"/> |  |
|   | 4) Other ( )   | <input type="checkbox"/> |  |
| 10  | <b>Photocopy of passport:</b> if unavailable, a document proving your citizenship is required*   | <input type="checkbox"/> | *e.g., photocopy of citizenship card, birth certificate, census register |
| 11  | <b>Application Checklist (this sheet)</b>  | <input type="checkbox"/> |  |

## Annex 4 Example of application document list of Tohoku University (Graduate School of Engineering, Department of Civil and Environmental Engineering)

For your reference, please find the following list for FY2021 application documents. The list of necessary documents is shown in the Application Guideline on the website.

|  |  |
|--|--|
| Applicants for the Master's Degree Program   | Applicants for the Doctoral Degree Program   |
| Application for admission(Form1-3)   | Application for admission(Form1-3)   |
| Letter of acceptance (Form4)   | Letter of acceptance (Form4)   |
| Selection vote of the oral examination, examination admission ticket, and address labels(Form5-6)  | Selection vote of the oral examination, examination admission ticket, and address labels(Form5-6)  |
| Undergraduate transcript   | Graduate school transcript   |
| Original TOEFL, TOEIC or IELTS score sheets<br>Valid tests: TOEFLPBT, TOEFL iBT , TOEFL iBT Special Home Edition, TOEIC Public Test, IELTS-Academic Module | Original TOEFL, TOEIC or IELTS score sheets<br>Valid tests: TOEFLPBT, TOEFL iBT , TOEFL iBT Special Home Edition, TOEIC Public Test, IELTS-Academic Module |
| Certificate of (expected) completion or of degree conferral  | Certificate of (expected) completion or of degree conferral  |
| Photo ID   | Undergraduate transcript   |
| Copy of Residence Record *Should be submitted by foreign applicants residing in Japan whose period of stay is over 90 days.                                | Duplicate of master's thesis   |
| Three written recommendations  | Photo ID   |
| Other reference materials (optional)   | Copy of Residence Record *Should be submitted by foreign applicants residing in Japan whose period of stay is over 90 days.                                |
|  | Three written recommendations  |
|  | Other reference materials (optional)   |

## Annex 5 Requirement of Tohoku University (except Graduate School of Science)

Tohoku University (Graduate School of Engineering, Graduate School of Information Science) must need the following requirement for the application.

(1) Applicants must have taken one of the following on or after June 1, 2020: TOEFL iBT, TOEFL PBT, TOEIC or IELTS (Academic Module).

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 70 or higher
- TOEFL PBT 500 or higher
- TOEIC 700 or higher
- IELTS 6.0 or higher

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

Scale Grade

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

$$(N4+N3) \times 3 + N2 \times 2 + N1 \times 1 + N0 \times 0$$

$$\text{Evaluation Point} = \frac{\text{-----}}{N4 + N3 + N2 + N1}$$

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.



## **Annex 6 Research field of Tohoku University Graduate School of Science**

### **(1) Seismic activities and related sciences**

#### **●Department of Geophysics**

Prof. Motoyuki Kido (IRIDES), Prof. Dapeng Zhao, Prof. Ryota Hino,  
Assoc. Prof. Naoki Uchida, Assoc. Prof. Yusaku Ohta,  
Assoc. Prof. Tomonori Okada, Assoc. Prof. Hisashi Nakahara  
Assoc. Prof. Yasuo Yabe,  
Assoc. Prof. Yo Fukushima (IRIDES)

#### **●Department of Earth Science**

Prof. Hiroyuki Nagahama, Assoc. Prof. Jun Muto,  
Prof. Shinji Toda (IRIDES), Assoc. Prof. Daisuke Sugawara (IRIDES)

### **(2) Volcanic activities and related sciences**

#### **●Department of Geophysics**

Prof. Takeshi Nishimura, Assoc. Prof. Mare Yamamoto,

#### **●Department of Earth Science**

Prof. Michihiko Nakamura, Assoc. Prof. Satoshi Okumura,  
Assoc. Prof. Naoto Hirano, Prof. Reishi Takashima

### **(3) Climate change and related sciences**

#### **●Department of Geophysics**

Prof. Takeshi Yamazaki, Assoc. Prof. Junshi Ito,  
Prof. Shinji Morimoto, Assoc. Prof. Hironobu Iwabuchi  
Prof. Toshio Suga, Assoc. Prof. Shoichi Kizu, Assoc. Prof. Shusaku Sugimoto,  
Assoc. Prof. Futoki Sakaida

#### **●Department of Earth Science**

Assoc. Prof. Ryuji Asami, Assoc. Prof. Noritoshi Suzuki

### **(4) Geographical and social sciences related natural hazard**

Prof. Kazuaki Hori, Assoc. Prof. Yuzuru Isoda

### **(5) Space weather and related sciences**

Assoc. Prof. Hiroaki Misawa, Assoc. Prof. Fuminori Tsuchiya,  
Assoc. Prof. Takeshi Sakanoi, Prof. Yuto Katoh

### **(6) Others (Please refer to web site)**

### **(7) Retiring professors (not able to supervise new students, and do not choose them)**

Prof. Toru Matsuzawa, Prof. Satoshi Miura, Prof. Yasufumi Iryu,  
Prof. Tadahiro Hayasaka, Prof. Takahiro Obara

#### **Department of Geophysics**

<http://www.gp.tohoku.ac.jp/index-en.html>

#### **Department of Earth Science**

<http://www.es.tohoku.ac.jp/EN/index.html>

**International Research Institute of Disaster Science (IRIDeS)**  
<https://irides.tohoku.ac.jp/eng/>

