

## 2012 ANNOUNCEMENT

Graduate School of Engineering, Graduate School of Information Sciences,  
Graduate School of Environmental Studies, Tohoku University

**Tohoku University International Doctoral Program in  
Engineering, Information Sciences and Environmental Studies  
(with elective courses in English and possible financial support by scholarship  
from *Monbukagakusho*)**

The Graduate School of Engineering, the Graduate School of Information Sciences and the Graduate School of Environmental Studies are pleased to announce the Tohoku University International Doctoral Program in Engineering, Information Sciences and Environmental Studies and invite applicants for 2012 entry. The program was launched in 2001 through the financial support of the Ministry of Education, Culture, Sports, Science and Technology (*Monbukagakusho*) and is now in its twelfth year. In this program, a wide variety of elective courses are being offered in English. *Monbukagakusho* Scholarships, aided by *Monbukagakusho* are being offered as part of the program for international students with outstanding scholastic ability. Also, students enjoy some of the world's best experimental facilities and study along with distinguished faculty and associates to develop creative and original research that is published in highly reputed international journals.

Candidates should submit application materials and choose a department for enrollment from the 22 departments listed below:

Table 1. List of departments

1. Mechanical Systems and Design	10. Chemical Engineering	18. Computer and Mathematical Sciences
2. Nanomechanics	11. Biomolecular Engineering	19. System Information Sciences
3. Aerospace Engineering	12. Metallurgy	20. Human-Social Information Sciences
4. Quantum Science and Energy Engineering	13. Materials Science	21. Applied Information Sciences
5. Bioengineering and Robotics	14. Materials Processing	22. Environmental Studies
6. Electrical and Communication Engineering	15. Civil and Environmental Engineering	
7. Electronic Engineering	16. Architecture and Building Science	
8. Applied Physics	17. Management Science and Technology	
9. Applied Chemistry		

Candidates should also choose one from the following course groups (A-E):

Group A: Environmental Engineering

Group B: Information and Communications

Group C: Medical Engineering

Group D: Energy

Group E: Materials

Twenty-five students can be admitted per year into the program, with 5 students being selected from each course group (A–E). Up to twelve students with outstanding scholastic ability will be nominated for *Monbukagakusho* Scholarship recipients (Figure 1)

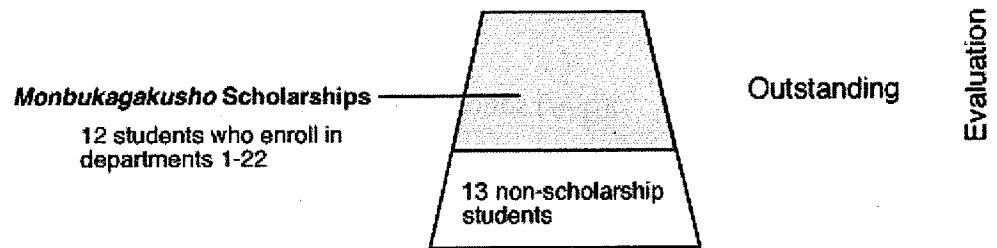


Figure 1. Scholarships offered for international students. For the list of departments, see Table 1.

Lectures in English are arranged in areas of students' research specialty. However, depending on the students' language ability, research supervision may be in English or Japanese. Students may also attend lectures given in Japanese to fulfill their requirements.

### **DEGREE REQUIREMENTS**

The main requirements for Ph.D. degree are (1) three years of residency, which may be shortened for special cases in which outstanding research performance is demonstrated; (2) successful completion of a minimum of 16 credits for students in the departments 1 to 17 and 22, or 12 credits for those in the departments 18 to 21; (3) submission of a Doctoral dissertation; and (4) oral defense of doctoral thesis. For students in the departments 1 to 17 and 22, the above 16 credits consist of 8 credits of basic interdisciplinary courses and research seminar, and 8 credits of thesis preparation and submission. For students in the departments 18 to 21, the above 12 credits consist of 4 credits of basic interdisciplinary courses, and 8 credits of research seminar. In addition to these requirements, students are required to acquire 2 or more credits from the courses of one's course group (A/B/C/D/E) in the last page.

### **CANDIDATE ELIGIBILITY**

Eligible candidates are:

- Those who have Master's degree, or master's students who are expected to hold a Master's degree before the admission date of the International Doctoral Program. The Master's degree acquired or to be acquired must be equivalent to the Master of Engineering degree, the Master of Information Sciences degree or the Master of Environmental Studies degree awarded by Tohoku University, which include both research and thesis components.
- Those who have been involved in research for a minimum of two years in internationally accredited College, University or Research Institute after acquiring a Bachelor's degree from a Japanese accredited College or University, or those who have the same or higher level of academic ability than a Master's degree holder.

To be eligible for scholarships, candidates must be under 35 years of age as of April 1, 2012 (born

after April 2, 1977) and citizens of a country that has diplomatic relations with Japan. Military personnel and employees from military institutions are not eligible.

## **APPLICATION**

All application materials, as listed below, must be written in English or Japanese.

Candidates should submit all the materials except recommendation letters (items 8 and 15) together in a single envelope. The envelope should be addressed as given in the forward pages and should contain: three copies of items 9 and 12; originals of items 6 and 7; and one original plus two copies of all other items, except items 8 and 15. *GRE* and English test scores (items 6 and 7) should be provided in sealed envelopes as supplied by the responsible organization. The following are the materials to be submitted:

1. APPLICATION FOR ADMISSION (Form #1)
2. APPLICATION FOR JAPANESE GOVERNMENT (MONBUKAGAKUSHO:MEXT) SCHOLARSHIP (Form #2).
3. CERTIFICATE OF HEALTH (Form #3)
4. Certificates of Bachelor's Degree and Master's Degree
5. Undergraduate and graduate transcripts
6. Graduate Record Examination (*GRE*) scores. (*GRE General Test is preferable*)
7. Test of English as a Foreign Language (*TOEFL*) or International English Language Testing Service (*IELTS*) score. The *TOEFL* institution code of the Graduate School of Engineering, Tohoku University is 8958.
8. RECOMMENDATION LETTER #1 and #2 (Form #4)
9. Census register or other proof of citizenship
10. Copy of passport
11. *Curriculum Vitae* with passport photos (6×4cm) taken within the past 6 months. An original photo is required on each copy of the *curriculum vitae*.
12. Master's dissertation or equivalent (1000 words in English, 2000 characters in Japanese). A cover is required.
13. Personal statement on why the applicant desires to pursue the Doctoral Degree in Engineering, Information Sciences or Environmental Studies
14. Supporting material (optional) such as thesis, journal, conference, and submitted publications
15. OFFICIAL RECOMMENDATION LETTER (Form #5).

NOTE: To be eligible for admission and a possible scholarship, please be sure to submit ALL of the above materials. Only applicants applying for the scholarships need to submit Form #2.

## **SELECTION AND ADMISSION**

Preliminary selection is carried out by the *International Doctoral Program Evaluation Committee*, based on recommendations from the above-mentioned departments and scholastic aptitude of candidates, according to transcripts, *GRE* and English language test scores, direct or internet interview, and materials submitted. Tohoku University recommends 12 selected candidates to *Monbukagakusho* who makes the final determination of *Monbukagakusho* Scholarship recipients. The program begins on October 1, 2012.

## **SCHOLARSHIPS**

*Monbukagakusho Scholarships (aided by Monbukagakusho)*—*Monbukagakusho* awards 3-year scholarships to 12 students who enroll in departments 1-22 (Table 1) with favorable evaluations (see Figure 1). The scholarships cover living expenses (approximately 155,000 yen/month), include a round-trip air ticket (discounted economy) between the nearest international airport in the country of the student's nationality and the New Tokyo International Airport (NRT). Students awarded with *Monbukagakusho* Scholarships are exempt from all admission fee and tuition fee. *Monbukagakusho* requests students who are admitted to the program to complete their doctoral studies within three years of financial support. According to the regulations of *Monbukagakusho*, the *Monbukagakusho* Scholarships will be awarded to a maximum of three students for each country.

For non-scholarship students, entrance examination fee is 30,000 yen and admission fee is 282,000 yen. Tuition fee is 535,800 yen per academic year. Fees can be revised during the enrollment period. In that case, the new rates are applicable and become effective from the date of the revision.

## **IMPORTANT NOTES**

- (a) Documents submitted become the property of Tohoku University and cannot be returned.
- (b) Simultaneous applications for *Monbukagakusho* Scholarship to more than one university are strictly prohibited and will result in cancellation of all scholarship applications being made by the candidate.
- (c) Candidates should locate a possible research advisor at Tohoku University before application.
- (d) Scholarship students must depart their country on the 1<sup>st</sup> of October 2012 or later, and arrive in Japan between the 1<sup>st</sup> of October and 5<sup>th</sup> of October 2012. Scholarships may be canceled if recipients of *Monbukagakusho* scholarships fail to arrive in Japan within the above time frame. Non-Scholarship students must arrive in Japan by 21<sup>th</sup> of September.
- (e) All candidates for the program must have finished at least 16 years of primary and secondary education and must have graduated from a university or equivalent. In principle, a degree from another country should have corresponding number of years of formal education to be considered as equivalent to a Japanese degree. However, the Japanese government and universities, considering the differences in educational systems of different countries, have established criteria and schemes that allow international students to attain equivalence to Japanese educational system. Candidates are strongly advised to contact the Admission Office of the Faculty of Engineering with regards to matters on eligibility prior to application.
- (f) Candidates are encouraged to become acquainted with Japanese language, culture, and customs. Knowledge of Japanese is essential for daily life and will help to make the stay in Japan productive and also culturally enriching.

## **SCHEDULE AND CONTACT INFORMATION**

Candidates should submit the required materials so that they arrive no later than February 3, 2012. Candidates will be notified of results of the preliminary selection stage around the end of April 2012. Results of the final selection stage authorized by *Monbukagakusho* will be announced by July 2012.

The application forms can be obtained from the office of college or university that have a signed academic agreement with Tohoku University, or the homepages listed below. Further information for the application may be requested by writing to:

**International Doctoral Program in Engineering, Information Sciences and Environmental Studies**

c/o Graduate School of Engineering, Tohoku University

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

TEL: +81-22-795-5820

FAX: +81-22-795-5824

**HOME PAGE:** <http://www.eng.tohoku.ac.jp/english/index-e.php>

<http://www.eng.tohoku.ac.jp/english/program/?menu=itn>

Tohoku University International Doctoral Program in  
Engineering, Information Sciences and Environmental Studies  
APPLICATION FOR ADMISSION

Please type or print neatly in English or Japanese.

**PLEASE USE CAPITAL LETTERS.**

**Name in full Roman block capitals:** \_\_\_\_\_

Family name

First name

Middle name

**In Chinese character if any:** \_\_\_\_\_

Family name

First name

Middle name

**Date of birth:** \_\_\_\_\_

19xx/month/day

**Nationality:** \_\_\_\_\_

**Present status:** (with name and address of university or employer)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Present mailing address:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone number: \_\_\_\_\_ Fax number: \_\_\_\_\_

E-mail address: \_\_\_\_\_

**Permanent address:** (if different from above)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone number: \_\_\_\_\_ Fax number: \_\_\_\_\_

E-mail address: \_\_\_\_\_

**Academic record and activities**

(a) Bachelor: \_\_\_\_\_

Degree

Major

Name of institution

from (Mo./Yr.) to (Mo./Yr.)

Address

Grade point average (avg/max possible, e.g. 3.5/4.0); Scholastic honors or prizes

(b) Master : \_\_\_\_\_

Degree

Major

Name of institution

from (Mo./Yr.) to (Mo./Yr.)

Address

Grade point average (avg/max possible, e.g. 3.5/4.0); Scholastic honors or prizes

**Other academic experience or education:**


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**Language proficiency.** Please check the appropriate boxes:
☐ evaluated by the candidate      ☐ evaluated by a responsible language instructor (initials: \_\_\_\_\_)
**English**読(Reading) : ☐ Excellent ☐ Good ☐ Fair ☐ Poor書(Writing) : ☐ Excellent ☐ Good ☐ Fair ☐ Poor話(Speaking) : ☐ Excellent ☐ Good ☐ Fair ☐ Poor聞(Listening) : ☐ Excellent ☐ Good ☐ Fair ☐ Poor**日本語能力****(Japanese language proficiency ; For University information only)**読(Reading) : ☐ Excellent ☐ Good ☐ Fair ☐ Poor書(Writing) : ☐ Excellent ☐ Good ☐ Fair ☐ Poor話(Speaking) : ☐ Excellent ☐ Good ☐ Fair ☐ Poor聞(Listening) : ☐ Excellent ☐ Good ☐ Fair ☐ Poor

## DEPARTMENT, COURSE GROUP, AND ADVISOR PREFERENCES

Please choose one among the departments numbered 1 through 22 in Table 1 on the cover page. (Please write the full name of the department.)

Please choose one among the course groups A to E on the cover page. (Please write the full name of the course group.)

List the names of your prospective advisors (**Professor/Associate Professor**) to find prospective advisors, we recommend that you refer to the general pamphlets (English version), the university homepage (<http://www.eng.tohoku.ac.jp/english/>), or current journal publications in your chosen research field to obtain information on current faculty names and research areas.

You should contact the prospective advisors listed below before application.

1. \_\_\_\_\_  

advisor's name and department
Previous contact? ☐ Yes ☐ No
2. \_\_\_\_\_  

advisor's name and department
Previous contact? ☐ Yes ☐ No
3. \_\_\_\_\_  

advisor's name and department
Previous contact? ☐ Yes ☐ No

Please briefly provide your reasons for selecting these prospective advisors. Also, list dates of communication with them and keyword content.

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**SCHOLARSHIPS**

**Do you wish to apply for scholarships?** ☐ **Yes** ☐ **No**

Note: Only scholarship applicants need to submit Form #2.

**Do you wish to enter this program even without the scholarship?** ☐ **Yes** ☐ **No**

**Airport used for travel to Japan:** \_\_\_\_\_

Note: Write the city name of the international airport (in English, all capital letters) in your country of nationality that you will use when traveling to Japan. Travel expenses to Japan from an airport in a country other than your country of nationality will not be provided. Give the name of the international airport you will actually use when traveling to Japan, even if another airport is closer to you at the time of application.

**Nearest diplomatic mission:** \_\_\_\_\_

Note: Enter the official name in Japanese or English of the embassy or consular office to which you will go to receive a visa should your application be accepted. Service cannot be provided outside your country of nationality. Give the name of diplomatic mission at which you will complete the procedure when your application is accepted, even if another diplomatic mission is closer to you at the time of application.

## APPLICATION FOR JAPANESE GOVERNMENT (MONBUKAGAKUSHO:MEXT) SCHOLARSHIP

## 日本政府（文部科学省）奨学金留学生申請書

Research Students for 2012（研究留学生）

## INSTRUCTIONS（記入上の注意）

1. The application should be typed if possible, or neatly handwritten in block letters.（明瞭に記入すること。）
  2. Numbers should be in Arabic numerals.（数字は算用数字を用いること。）
  3. Years should be written using the Anno Domini system.（年号はすべて西暦とすること。）
  4. Proper nouns should be written in full and not abbreviated.（固有名詞はすべて正式な名称とし、一切省略しないこと。）
- \* Personal data entered in this application will only be used for scholarship selection purposes, and contact information such as e-mail addresses will only be used for forming related human networks after the student returns home and for sending of information by the Japanese Government.  
 （本申請書に記載された個人情報については、本奨学金の選考のために使用するほかは、特に E-mail アドレス等の連絡先については、帰国後における関係者のネットワークを作ること及び必要に応じ日本政府より各種情報を送信する以外には使用しない。）

1. Name in full in native language \_\_\_\_\_ (Sex)  
 (姓名（自国語）) (Family name) (First name) (Middle name) ☐ Male（男）  
☐ Female（女）

In Roman block capitals \_\_\_\_\_ (Marital Status)  
 (ローマ字) (Family name) (First name) (Middle name) ☐ Single（未婚）  
 (Write your name exactly same as is printed in your passport) ☐ Married（既婚）

2. Nationality \_\_\_\_\_ ※ Possession of Japanese nationality ☐ Yes, I have. (はい)  
 (国 籍) ☐ No, I don't have it. (いいえ)

3. Date of birth (生年月日)  
 19 \_\_\_\_\_  
 Year (年) Month (月) Day (日) Age (as of April 1, 2012) 年齢 (2012 年 4 月 1 日現在)

4. Present status with the name of the university attended or employer  
 (現職（在学大学名又は勤務先名まで記入すること。）)

Paste a passport sized photograph  
 or digital image taken within the  
 past 6 months. Write your name  
 and nationality in block letters on  
 the back of the photo.  
 (4. 5cm×3. 5cm photo)  
 (写真 (4. 5cm×3. 5cm))

5. Present address and telephone number, facsimile number, e-mail address  
 (現住所及び電話、ファックス番号、E-mail アドレス)

現住所 (Present address) : \_\_\_\_\_

電話番号/FAX 番号 (Telephone/facsimile number) : \_\_\_\_\_

E-mail address: \_\_\_\_\_

\* If possible, write an e-mail address that can be used for periods including the time before you come to Japan, your stay in Japan and the period after you return home.

(可能な限り、渡日前～日本留学中～帰国後にわたり使い続けることが予想される E-mail アドレスを記入すること。)

6. Field of specialization studied in the past (Be as detailed and specific as possible.)  
 (過去に専攻した専門分野（できるだけ具体的に詳細に書くこと。）)

## 7. Educational background (学歴)

	Name and Address of School (学校名及び所在地)	Year and Month of Entrance and Completion (入学及び卒業年月)	Amount of time spent at the school attended (修学年数)	Diploma or Degree awarded, Major subject (学位・資格, 専攻科目) When taking leave of absence, the period and reason. (休学した場合はその期間・理由)
Elementary Education (初等教育)  Elementary School (小学校)	Name (学校名)  Location (所在地)	From (入学)  To (卒業)	years (年)  and months (月)	
Secondary Education (中等教育)  Lower Secondary School (中学)	Name (学校名)  Location (所在地)	From (入学)  To (卒業)	years (年)  and months (月)	
Upper Secondary School (高校)	Name (学校名)  Location (所在地)	From (入学)  To (卒業)	years (年)  and months (月)	
Higher Education (高等教育)  Undergraduate Level (大学)	Name (学校名)  Location (所在地)	From (入学)  To (卒業)	years (年)  and months (月)	
Graduate Level (大学院)	Name (学校名)  Location (所在地)	From (入学)  To (卒業)	years (年)  and months (月)	
Total years of schooling mentioned above (以上を通算した全学校教育修学年数) as of April 1, 2012 (2012年4月1日現在)			years (年)	

\* If the blank spaces above are not sufficient for the information required, please attach a separate sheet.

((注) 上欄に書ききれない場合には, 適当な別紙に記入して添付すること。)

8. State the titles or subjects of books or papers (including graduation thesis authored by the applicant), if any, with the name and address of the publisher and the date of publication. (著書, 論文 (卒業論文を含む。)) があればその題名, 出版社名, 出版年月日, 出版場所を記すこと。)

## 9. Employment Record: Begin with the most recent employment, if applicable. (職歴)

Name and address of organization (勤務先及び所在地)	Period of employment (勤務期間)	Position (役職名)	Type of work (職務内容)
	From To		
	From To		

## 10. Japanese language proficiency: Evaluate your level and insert an X where appropriate in the following blank space.

(日本語能力を自己評価のうえ、該当欄に×印を記入すること。)

	Excellent (優)	Good (良)	Fair (可)	Poor (不可)
Reading (読む能力)				
Writing (書く能力)				
Speaking (話す能力)				

## 11. Foreign language proficiency: Evaluate your level and insert an X where appropriate in the following blank space.

(外国語能力を自己評価のうえ、該当欄に×印を記入すること。)

	Excellent (優)	Good (良)	Fair (可)	Poor (不可)
English (英語)				
French (仏語)				
German (独語)				
Spanish (西語)				

## 12. Have you been awarded a Japanese Government (Monbukagakusho) Scholarship in the past? If so, please specify the period, the name of the university, etc.

(過去に国費留学生に採用されたことがあるか。あるならば、その期間・受入大学名等を記入のこと。)

i) Yes, I have.

(ある)

Period: \_\_\_\_\_ University: \_\_\_\_\_

ii) No, I have not.

(ない)

## 13. Accompanying Dependents (Provide the following information if you plan to bring any family members to Japan.)

同伴家族欄 (渡日する場合、同伴予定の家族がいる場合に記入すること。)

\* All expenses incurred by the presence of dependents must be borne by the grantee. He/She is advised to take into consideration various difficulties and the great expense that will be involved in finding living quarters. Therefore, those who wish to be accompanied by their families are advised to come alone first and let their dependents come after suitable accommodation has been found.

(注) なお同伴者に必要な経費はすべて留学生の負担であるが、家族用の宿舍をみつめることは相当困難であり賃貸料も非常に割高になるの  
であらかじめ承知されたい。このため、留学生はまず単身で来日し、適当な宿舍をみつけた後、家族を呼び寄せること。

Name (氏 名)	Relationship (続 柄)	Age (年 齢)

## 14. Person to be notified in applicant's home country in case of emergency:

(緊急の際の母国の連絡先)

i) Name in full:

(氏名) \_\_\_\_\_

ii) Address: with telephone number, facsimile number, e-mail address

(住所: 電話番号, ファックス番号及び E-mail アドレスを記入のこと。)

現住所 (Present address): \_\_\_\_\_

電話番号/FAX 番号 (Telephone/Facsimile number): \_\_\_\_\_

E-mail address: \_\_\_\_\_

iii) Occupation:

(職 業) \_\_\_\_\_

iv) Relationship:

(本人との関係) \_\_\_\_\_

## 15. Immigration Records to Japan (日本への渡航記録)

Date (日付)	Purpose (渡航目的)
From	
To	
From	
To	

(I understand and accept all the matters stated in the Application for Japanese Government(MONBUKAGAKUSHO:MEXT) Scholarship for 2012, and hereby apply for this scholarship.

(私は 2012 年度日本政府 (文部科学省) 奨学金留学生募集要項に記載されている事項をすべて了解して申請します)

Date of application:

(申請年月日) \_\_\_\_\_

Applicant's signature:

(申請者署名) \_\_\_\_\_

Applicant's name

(in Roman block capitals):

(申請者氏名) \_\_\_\_\_

(別紙)

## 専攻分野及び研究計画

Field of Study and Study Program

Full name in native language

(姓名 (自国語))

(Family name)

(First name)

(Middle name)

Nationality

(国 籍)

Proposed study program in Japan (State the outline of your major field of study on this side and the details of your study program on the backside of this sheet in concreteness. This section will be used as one of the most important references for selection. Statement must be typewritten or written in block letters. Additional sheets of paper may be attached if necessary.)

(日本での研究計画; この研究計画は、選考の重要な参考となるので、表面に専攻分野の概要を、裏面に研究計画の詳細を具体的に記入すること。)  
(記入はタイプ又は楷書によるものとし、必要な場合は別紙を追加してもよい。)

If you have Japanese language ability, write in Japanese.

(相当の日本語能力を有する者は、日本語により記入すること。)

1 Field of study (専攻分野)

健康診断書  
CERTIFICATE OF HEALTH (to be completed by examining physician)

日本語又は英語により明瞭に記載すること。  
Please fill out (PRINT/TYPE) in Japanese or English.

氏名 Name: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ ☐ 男 Male 生年月日 Date of Birth: \_\_\_\_\_ 年齢 Age: \_\_\_\_\_  
Family name First name Middle name ☐ 女 Female

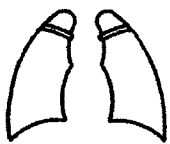
1. 身体検査  
Physical Examinations

- (1) 身長 \_\_\_\_\_ cm. 体重 \_\_\_\_\_ kg.  
Height Weight
- (2) 血圧 \_\_\_\_\_ mm/Hg ~ \_\_\_\_\_ mm/Hg 血液型 Blood Type 

A B O	RH	+
		-

 脈拍 ☐ 整 regular ☐ 不整 irregular  
Blood pressure Pulse
- (3) 視力 Eyesight: (R) \_\_\_\_\_ (L) \_\_\_\_\_ (R) \_\_\_\_\_ (L) \_\_\_\_\_ 色覚異常の有無 ☐ 正常 normal ☐ 異常 impaired  
裸眼 without glasses 矯正 with glasses or contact lenses color blindness
- (4) 聴力 ☐ 正常 normal 言語 ☐ 正常 normal  
Hearing: ☐ 低下 impaired Speech: ☐ 異常 impaired

2. 申請者の胸部について、聴診とX線検査の結果を記入して下さい。X線検査の日付も記入すること（6ヶ月以上前の検査は無効）。  
Please describe the results of physical and X-ray examinations of applicant's chest x-ray (X-ray taken more than 6 months prior to the certification is NOT valid).



肺 ☐ 正常 normal ☐ 異常 impaired  
lung: ☐ 正常 normal ☐ 異常 impaired  
← Date \_\_\_\_\_  
Film No. \_\_\_\_\_

心臓 ☐ 正常 normal ☐ 異常 impaired  
Cardiomegaly: ☐ 正常 normal ☐ 異常 impaired  
↓  
異常がある場合  
心電図

Electrocardiograph: ☐ 正常 normal ☐ 異常 impaired

Describe the condition of applicant's lung.

3. 現在治療中の病気 ☐ Yes (Disease: \_\_\_\_\_) ☐ No  
Disease Treated at Present
4. 既往症  
Past history: Please indicate with + or - and fill in the date of recovery
- Tuberculosis.....☐ ( . . ) Malaria.....☐ ( . . ) Other Communicable Disease.....☐ ( . . )  
Epilepsy.....☐ ( . . ) Kidney Disease.....☐ ( . . ) Heart Diseases.....☐ ( . . )  
Diabetes.....☐ ( . . ) Drug Allergy.....☐ ( . . ) Psychosis.....☐ ( . . )  
Functional Disorder in extremities.....☐ ( . . )

5. 検査 Laboratory tests

検尿 Urinalysis: glucose ( ), protein ( ), occult blood ( )  
赤沈 ESR: \_\_\_\_\_ mm/Hr, WBC count: \_\_\_\_\_ /cmm 貧血 ☐  
Hemoglobin: \_\_\_\_\_ gm/dl, GPT: \_\_\_\_\_ anemia

6. 診断医の印象を述べてください。  
Please describe your impression.

7. 志願者の既往歴、診察、検査の結果から判断して、現在の健康の状況は十分に留学に耐えうるものと思われますか？  
In view of the applicant's history and the above findings, is it your observation his/her health status is adequate to pursue studies in Japan?  
yes ☐ no ☐

日付 Date: \_\_\_\_\_ 署名 Signature: \_\_\_\_\_

医師氏名  
Physician's Name in Print: \_\_\_\_\_

検査施設名  
Office / Institution: \_\_\_\_\_  
所在地  
Address: \_\_\_\_\_

# Tohoku University International Doctoral Program in Engineering, Information Sciences and Environmental Studies

## RECOMMENDATION LETTER #1

(to be filled out *by a faculty member* familiar with applicant's aptitude)

Name of applicant: \_\_\_\_\_

Family name

First name

Middle name

The person named above is applying for admission to the International Doctoral Program in Engineering, Information Sciences and Environmental Studies at Tohoku University. We would appreciate your assessment of the applicant's ability to pursue doctoral research, particularly regarding the candidate's ability to develop a plan of study and to perform original research. We would also appreciate your comments regarding the candidate's study habits and ability to work with others. All information will remain confidential.

Please return this letter directly to: Director, International Doctoral Program in Engineering, Information Sciences and Environmental Studies,

c/o Graduate School of Engineering, Tohoku University, Aramaki Aza Aoba 6-6-04, Aoba-ku, Sendai 980-8579, JAPAN

*Please use additional pages if necessary.*

*Please mail your recommendation so that it reaches our office no later than February 3, 2012.*

*Thank you very much for your cooperation.*

### I. Candidate ranking among students within the last five years. (please circle or check)

Outstanding	Unusual	Good	Somewhat above average	Average	Below Average	Inadequate Opportunity to observe
Exceptional 1%	Highest 10%	Next Highest 15%	Next 15%	Middle 20%	Lowest 40%	

### II. Comments

Faculty Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Contact information: (Email/Telephone): \_\_\_\_\_



# Tohoku University International Doctoral Program in Engineering, Information Sciences and Environmental Studies

## RECOMMENDATION LETTER #2

(to be filled out *by a faculty member or employer* familiar with applicant's aptitude)

Name of applicant: \_\_\_\_\_

Family name

First name

Middle name

The person named above is applying for admission to the International Doctoral Program in Engineering, Information Sciences and Environmental Studies at Tohoku University. We would appreciate your assessment of the applicant's ability to pursue doctoral research, particularly regarding the candidate's ability to develop a plan of study and to perform original research. We would also appreciate your comments regarding the candidate's study habits and ability to work with others. All information will remain confidential.

Please return this letter directly to: Director, International Doctoral Program in Engineering, Information Sciences and Environmental Studies,

c/o Graduate School of Engineering, Tohoku University, Aramaki Aza Aoba 6-6-04, Aoba-ku, Sendai 980-8579, JAPAN

*Please use additional pages if necessary.*

*Please mail your recommendation so that it reaches our office no later than February 3, 2012*

*Thank you very much for your cooperation.*

### I. Candidate assessment among students graduating within the last five years. (please circle or check)

Outstanding	Unusual	Good	Somewhat above average	Average	Below Average	Inadequate Opportunity to observe
Exceptional 1%	Highest 10%	Next Highest 15%	Next 15%	Middle 20%	Lowest 40%	

### II. Comments

Faculty or Employer Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Contact information: (Email/Telephone): \_\_\_\_\_

**Tohoku University International Doctoral Program in  
Engineering, Information Sciences and Environmental Studies**

**OFFICIAL RECOMMENDATION LETTER**

To the attention of the President of Tohoku University.

[ \_\_\_\_\_ ] would like to recommend the following applicant, who is [ \_\_\_\_\_ ]  
Name of the Institution a/an

[ \_\_\_\_\_ ] of our Institution, as our [ \_\_\_\_\_ ] choice candidate for the  
Faculty member/student/alumnus first/second/third

International Doctoral Program in Engineering, Information Sciences and Environmental Studies at Tohoku University.

Name of the applicant: \_\_\_\_\_  
Family name First name Middle name

[Title of the Official Representative of the Institution] Date: \_\_\_\_\_

[Name of the Official Representative of the Institution]

[Signature]

[Official Stamp of the Institution]

Contact information: (E-mail/Telephone): \_\_\_\_\_

Please return this letter directly to: Director, International Doctoral Program in Engineering, Information Sciences and Environmental Studies,

c/o Graduate School of Engineering, Tohoku University, Aramaki Aza Aoba 6-6-04, Aoba-ku, Sendai 980-8579, JAPAN

*Please use additional pages if necessary.*

*Please mail your recommendation so that it reaches our office no later than February 3, 2012.*

NOTE: A maximum of three Official Recommendation Letters should be issued from one institution. According to the regulations of Monbukagakusho, the Monbukagakusho Scholarships will be awarded to a maximum of three students for each country.

**Tohoku University International Doctoral Program in  
Engineering, Information Sciences and Environmental Studies  
2012–2014 Course Groups**

*Numbers in parentheses “( )” refer to departments offering the courses listed in page 1.*

**Group A: Environmental Engineering**

- (1)(2) Advanced Damage Tolerance and Design (損傷計測学特論/機シ, ナノ), July and/or August, 2015
- (10) Advanced Process Analysis and Modeling (プロセス解析工学特論/化工), July and/or August, 2014
- (15) Advanced Environmental Hydraulics and Water Quality Engineering (水環境学特論/土木), July and/or August, 2015  
Every other year
- (16) Geological Environment and Earthquake Disaster (地盤環境と地震災害/建築), July and/or August, 2013
- (17) Advanced Topics on Science & Technology Policy (実践技術政策特論/技術), October 2013 to February, 2014
- (22) Advanced Functional Materials for Environment-friendly Systems (環境材料機能学特論/環境), August, 2015
- (22) Advanced Environmental Biotechnology (環境生命・生態学特論/環境), August, 2013
- (22) Advanced to Environmental Resources Chemistry (環境資源・材料化学特論/環境), August, 2014

**Group B: Information and Communications**

- (6)(7)(20)(21) Advanced High-Speed Communication Engineering(先端超高周波情報工学/電通, 電子), April to September, 2015
- (7)(19) Advanced Electronic Device Engineering (電子デバイス工学特論/電子), July and/or August, 2013
- (8)(18) Quantum Material Physics (量子材料物理/応物), February, 2014
- (13) Advanced Topics on High Performance Materials (高機能材料学特論/知材), July and/or August, 2013
- (18) Advanced Topics in Theoretical Computer Science (理論計算機科学の先端/情報), October, 2014 to February, 2015

**Group C: Medical Engineering**

- (4) Advanced Quantum Science and Energy Engineering (量子エネルギー工学特論/量子), August and/or September, 2013
- (4) Medical Molecular Engineering (分子医工学/量子), August and/or September, 2013
- (5) Advanced Bio-Mechanics (バイオメカニクス特論/ロボ), November, 2013
- (6) Advanced Bioelectromagnetics (生体電磁工学特論/電通), October and/or November, 2013
- (11) Advanced Biomolecular Engineering (応用生命化学特論/バ工), July and/or August, 2015
- (12) Advanced Course on Materials Physical Chemistry (材料理化学特論/金フ), July and/or August, 2013

**Group D: Energy**

- (3) Shock Wave in Complex Media and their Interdisciplinary Applications (複雑な媒体中の衝撃波とその応用/航空), July and/or August, 2013
- (4) Advanced Quantum Science and Energy Engineering (量子エネルギー工学特論/量子), August and/or September, 2013
- (9) Advanced Course in Atoms and Molecules Control Engineering (原子・分子制御工学特論/応化), July and/or August, 2013
- (10) Advanced Process Analysis and Modeling (プロセス解析工学特論/化工), July and/or August, 2014
- (14) Advanced Materials Processing (材料システム工学特論/材シ), July and/or August, 2013
- (15) Advanced Civil Engineering Structures (社会基盤構造学特論/土木), July and/or August, Every other year
- (16) CFD modeling for building environment design (建築環境デザインのためのCFD モデリング/建築), April to July, 2013
- (17) Advanced Energy Systems and Society (エネルギー社会システム特論/技術), October to December, every year
- (22) Advanced Functional Materials for Environment-friendly Systems (環境材料機能学特論/環境), August, 2015
- (22) Advanced Environmental Biotechnology (環境生命・生態学特論/環境), August, 2013
- (22) Advanced to Environmental Resources Chemistry (環境資源・材料化学特論/環境), August, 2014

**Group E: Materials**

- (8) Quantum Material Physics (量子材料物理/応物), February, 2014
- (9) Advanced Course in Atoms and Molecules Control Engineering (原子・分子制御工学特論/応化), July and/or August, 2013
- (11) Advanced Biomolecular Engineering (応用生命化学特論/バ工), July and/or August, 2015
- (12) Metallurgical Process Engineering (金属プロセス工学特論/金フ), July and/or August, 2015
- (12) Advanced Course on Materials Physical Chemistry (材料理化学特論/金フ), July and/or August, 2013
- (13) Advanced Topics on Highly Sophisticated Materials (物性制御学特論/知材), July and/or August, 2013
- (14) Advanced Materials Processing (材料システム工学特論/材シ), July and/or August, 2013

Note: Please refer to "DEGREE REQUIREMENTS" in the previous pages.