



Tohoku University Global COE Program:  
World Center of Education and Research for Trans-disciplinary Flow Dynamics

## 2010 Application Guideline for Senior Research Assistant

Tohoku University Global COE Program “World Center of Education and Research for Trans-disciplinary Flow Dynamics” (hereafter the GCOE) provides several kinds of Student Promotion Programs to encourage and support to grow competent graduate students by hiring awarded students as Research Assistant (RA) for certain years of period. Such Student Promotion Programs are listed below:

- International “Takenoko” (Bamboo Shoot) Student Promotion Program
- Program for Special Research Students to study at the Institute for International Advanced Research and Education, Tohoku University
- Special Research Student of International Leading Researcher Hatchery Program
- Senior Research Assistant (SRA) Program
- Double Doctoral Degree Program

### Senior Research Assistant (SRA) Program

The Global COE Program, “Worldwide Center of Education and Research for Trans-disciplinary Flow Dynamics,” (hereafter the GCOE) recruits Senior Research Assistants (hereafter SRAs), from the doctoral course students in certain graduate schools of Tohoku University, offering them opportunities to acquire experience, knowledge and achievements, which contribute to a future career as researchers/educationists. The details of the program are described below.

## 1. Candidates

Applicants must first apply for the International “Takenoko” (Bamboo Shoot) Student Promotion Program. For detailed qualifications, please see 1. Candidates described in the Application Guideline of “International “Takenoko” (Bamboo Shoot) Student Promotion Program.

## 2. Number of Students Awarded

A few

## 3. Program Period

- For awarded student who will be admitted into the doctoral course from **October 2010**:  
Start from October 1, 2010 through March 31, 2013 (within the period of the GCOE Program)
- For awarded student who will be admitted into the doctoral course from **April 2011**:  
Start from April 1, 2011 through March 31, 2013 (within the period of the GCOE Program)

This program period can't be extended further than March 31, 2013, because of the termination of the entire Global COE Program.

## 4. Obligations of the Student & Way to Support

### *Obligations;*

The Global COE Program supports the awarded student by hiring him/her as a Senior Research Assistant (SRA) of Tohoku University.

Each SRA is to work 23 hours a week during the 1<sup>st</sup> year, and 20 hours a week during the 2<sup>nd</sup> and the 3<sup>rd</sup> year.

It is expected that SRAs will mainly concentrate in their research assistances on projects that include flow dynamics research works. Following duties, however, are included in the obligations of SRA in order to promote the activities of the GCOE Program, provided, such GCOE Program duties do not extensively interfere the original obligations of doing research works as in regular research assistances.

- Minor supplementary duties related to research works at the Institute of Fluid Science, the Graduate School of Engineering (the Department of Aerospace Engineering, the Department of Mechanical Systems and Design, the Department of Quantum Science and Energy Engineering, and the Department of Chemical Engineering), the Department of Biomedical Engineering of the Graduate School of Biomedical Engineering, the Institute of Multidisciplinary Research for Advanced Materials, the New Industry Creation Hatchery Center, and the WPI Research Center: the Advanced Institute for Materials Research (WPI-AIMR).

For the purposes of promoting activities of the GCOE and for his/her own carrier development, the following duties are also included in their obligations:

- Participation in the International Conference on Flow Dynamics (ICFD) hosted by the GCOE each year and other conferences, in actively participating as follows.
  - Planning and operating the ICFD “Student sessions”,
  - Presentation at ICFD “Student sessions”,
  - Presentation at the domestic/international academic conferences more than once a year.

#### *Supports (Compensation)*

During the 1st year : Each SRA receives 2,100yen/hour

(Approx. 194,000yen/month, assuming each SRA works 23 hours a week)

During the 2nd / 3rd years : Each SRA receives 2,100yen/hour

(Approx. 170,000yen/month, assuming each SRA works 20 hours a week)

- The number of working hours and the amount of the compensation can be altered after 2011.
- Working conditions (time and compensation amount) for a SRA may be altered depending on his/her previous year performances.

#### 5. Selection Process

The Graduate Students to be awarded by this program shall be selected from the candidates defined in 1. Candidates in the guideline of International “Takenoko” (Bamboo Shoot) Student Promotion Program, based upon the examination of his/her respective application form. General criteria for the selection of awarded students are as follows:

1) His/her research subject in the doctoral course should contribute to the activities and formation of the GCOE.

2) Achievement awards, which have been acquired by a candidate before, should be considered favorably.

3) Grade reports at his/her undergraduate and graduate schools are to be considered.

4) This program will support students who wish to participate in an international joint research program, or a domestic joint research project with domestic and/or overseas universities.

## 6. Application Procedure

### *Required documents;*

- (1) Please fill in the application form for International "Takenoko" (Bamboo Shoot) Student Promotion Program. Each applicant should download and use the application form from the following website and circle the number (1.Senior Research Assistant) in the section ⑥.  
<http://www.ifs.tohoku.ac.jp/gcoe/eng/application/index.html>
- (2) Recommendation letter by your current supervisor. (No particular format is requested.)
- (3) A list of acquired achievement awards, when that is applicable.
- (4) Certificates of grade reports at your undergraduate and graduate schools, which should be issued by respective institutions.

Please send the above-mentioned documents by postal mail to the following address:

(Please mark, in red, "GCOE Application Form Inside" on the envelope.)

### *Mailing Address;*

Tohoku University Global COE Office "World Center of Education and Research for Trans-disciplinary Flow Dynamics"

Institute of Fluid Science, Katahira 2-1-1, Aoba-ku, Sendai, Miyagi-ken 980-8577 Japan

Telephone/Fax: +81-22-217-5301

E-mail: [office@gcoe.ifs.tohoku.ac.jp](mailto:office@gcoe.ifs.tohoku.ac.jp)

### *Application Deadline;*

No fixed close date for the application is set. However, it is advisable to submit your application at least two (2) months prior to the date of doctoral course Entrance Examination.

For the entrance examination dates, please refer to the website:

<http://www.eng.tohoku.ac.jp/english/admission>

## 7. Others

Any doctoral course student who will be a self-supporting student upon entering the doctoral course, by either being affiliated to a company (or companies), or, being supported by foreign country government by receiving financial assistance, may not apply for the Senior Research Assistant (SRA) support program.

## 8. Contact

For further information and questions, please contact at the following address:

Tohoku University Global COE Office “World Center of Education and Research for Trans-disciplinary Flow Dynamics”

Institute of Fluid Science, Katahira 2-1-1, Aoba-ku, Sendai, Miyagi-ken 980-8577 Japan

Telephone/Fax: +81-22-217-5301

E-mail: [office@gcoe.ifs.tohoku.ac.jp](mailto:office@gcoe.ifs.tohoku.ac.jp)