



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

2010 Application Guideline for
International “Takenoko” (Bamboo Shoot) Student Promotion Program

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

International “Takenoko” (Bamboo Shoot) Student Promotion Program

The Global COE Program “World Center of Education and Research for Trans-disciplinary Flow Dynamics” will select candidates for Student Promotion Program from among master’s course students or applicants with master’s degree who are expected to move onto doctoral course at a Graduate School of Tohoku University. Actual support will start after the awarded applicant has been successfully admitted into the doctoral course.

1. Candidates

Graduate students in master's courses or applicants with master's degree who intend to move onto the doctoral course in October 2010 or in April 2011 under the research supervision of the Project Members of the GCOE or, professors in the Division of Mechanical Engineering, Tohoku University, can apply for this program. The Division of Mechanical Engineering is depicted as in Table 1.

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 GCOE Program.

4. Obligations of the Student & Content of Support

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

Applicants who are applying for this program must designate a student promotion program among three following programs. **(Multiple applications are possible)**

- 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

The above-mentioned programs have different supporting contents and also obligations to the student. For the details, please refer to the guideline of each program.

(<http://www.ifs.tohoku.ac.jp/gcoe/eng/application/index.html>)

5. Selection Process

The Graduate Students to be awarded by this program shall be selected from the candidates defined in 1. Candidates above, based upon the examination of his/her application form. General criteria for the selection of awarded students are as follows:

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

2) Student 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 appreciate 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) Fill in the application form for International “Takenoko” (Bamboo Shoot) Student Promotion Program. Each applicant should download and use the application form from the website: <http://www.ifs.tohoku.ac.jp/gcoe/eng/application/index.html>

(2) Recommendation letter from your supervisor.

(No particular format is requested.)

(3) A list of acquired achievement awards, if you have acquired them.

(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;

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

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

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

E-mail: 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 day of doctoral course Entrance Examination. For the entrance examination date, 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 assistances, may not be able to apply for the Research Assistant (RA) support programs.

8. Contact

For further information and questions, please contact the GCOE office as shown below:

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

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

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

E-mail: office@gcoe.ifs.tohoku.ac.jp

*Project Members of Tohoku University Global COE Program “World Center of Education and Research for Trans-disciplinary Flow Dynamics”

Name	Affiliated Department, position title
Shigenao MARUYAMA	Institute of Fluid Science, Distinguished Professor
Toshiyuki TAKAGI	Institute of Fluid Science, Professor
Masami NAKANO	Institute of Fluid Science, Professor
Kazuhiro NAKAHASHI	Department of Aerospace Engineering, Graduate School of Engineering, Professor
Jun ISHIMOTO	Institute of Fluid Science, Associate Professor
Makoto OHTA	Institute of Fluid Science, Associate Professor
Kaoru MARUTA	Institute of Fluid Science, Professor
Mamiko SASAO	Department of Quantum Science and Energy Engineering, Graduate School of Engineering, , Professor
Takatoshi MIURA	Department of Chemical Engineering, Graduate School of Engineering, Professor
Goro MASUYA	Department of Aerospace Engineering, Graduate School of Engineering, Professor
Hideya NISHIYAMA	Institute of Fluid Science, Professor
Hideaki KOBAYASHI	Institute of Fluid Science, Professor
Taku OHARA	Institute of Fluid Science, Professor
Akira MIYAMOTO	New Industry Creation Hatchery Center, Department of Chemical Engineering, Graduate School of Engineering, Professor
Junichiro MIZUSAKI	Institute of Multidisciplinary Research for Advanced Materials, Professor
Michio TOKUYAMA	WPI Research Center : Advanced Institute for Materials Research, Professor
Seiji SAMUKAWA	Institute of Fluid Science, Professor
Tetsuya KODAMA	Graduate School of Biomedical Engineering, Professor
Takashi TOKUMASU	Institute of Fluid Science, Associate Professor
Shigeru OBAYASHI	Institute of Fluid Science, Professor
Yu FUKUNISHI	Department of Mechanical Systems and Design, Graduate School of Engineering, Professor
Keisuke ASAI	Department of Aerospace Engineering, Graduate School of Engineering, Professor
Keisuke SAWADA	Department of Aerospace Engineering, Graduate School of Engineering, Professor
Hidetoshi HASHIZUME	Department Quantum Science and Energy Engineering, Graduate School of Engineering, Professor
Takatoshi ITO	Institute of Fluid Science, Professor

Table 1

Division of Mechanical Engineering, Tohoku University

Please refer the following web site for the details <http://www.mech.tohoku.ac.jp/e/>

Graduate School of Engineering
Department of Mechanical Systems and Design Department of Nanomechanics Department of Aerospace Engineering Department of Bioengineering and Robotics Department of Management Science and Technology
Fracture and Reliability Research Institute
Mechanics and Mechanisms of Fracture Fracture Prediction and Prevention Complex Fracture Systems Multi-Physics Computational Science Division of Advanced Electric Power Research
Graduate School of Information Sciences
Mathematical Modeling and Computation Image Analysis Intelligent Control Systems Human-Robot Informatics Ultra-High-speed Information Processing Algorithm
Graduate School of Environmental Studies
Environment and Energy System Dynamics
Graduate School of Biomedical Engineering
Tissue Biomechanics Physiological Flow Studies Nano-device Engineering Medical Nano-system Engineering Medical Welfare Engineering Integrated Biomedical Simulation Biomedical Fluid System