

Program for Leading Graduate Schools  
**Ph.D. Program in Empowerment Informatics**  
School of Integrative and Global Majors  
University of Tsukuba

## Guidelines for Special Admission – December 2015

For applicants being made an offer by the University of Tsukuba to enroll in its graduate course

In 2013, the Ph.D. Program in Empowerment Informatics, proposed by the University of Tsukuba, was adopted as one of the “Programs for Leading Graduate Schools” sponsored by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) in Japan. Since its launch, the Program has been accepting the first batch of students in 2014 and the second batch of students in 2015.

While promoting participation of industry sectors, medical services, and overseas research institutions, the University now aims to establish and develop an integrated master’s and doctoral degree program of world-class guaranteed quality that provides interdisciplinary approaches transcending the boundaries of the research fields such as engineering, art, business science, and clinical medicine. With such new approaches, the University attempts to take the leading role in making fundamental reforms in postgraduate education systems.

For further details, please refer to our website (<http://www.emp.tsukuba.ac.jp/english/>).

If you wish to apply for the program, please submit your application by taking the following steps.

Application Period:  
16 – 18 November

Examination Day:  
7 December

Results Released on:  
18 December

### 1. MAXIMUM NUMBER OF SEATS AVAILABLE

Special admission is designed for applicants who have been made an offer by the University of Tsukuba to enroll in its graduate school from April 2016.

For entry to the 1st year of the program: 6 students

For entry to the 3rd year of the program: 3 students

(NOTE)

This 5-year Ph.D. program is an integrated master’s and doctoral degree program. The third year of the program is equivalent to the first year of general doctoral courses.

### 2. ELIGIBILITY

Applicants must:

- have been made an offer by the University of Tsukuba to enroll in its graduate course (master’s or doctoral degree program) from April 2016
- have been approved to apply for the Ph.D. Program in Empowerment Informatics (EMP) by a research supervisor that they wish to work with. The supervisor must be one of the EMP faculty members.

(NOTE)

Applicants need to select their research supervisor from the EMP faculty members that belong to the Graduate School of Systems and Information Engineering, Graduate School of Business Sciences, Graduate School of Comprehensive Human Sciences (Master's Program in Medical Sciences, Doctoral and Master's Programs in Art and Design, Doctoral Program in Clinical Sciences, Doctoral and Master's Programs in Kansei, Behavioral and Brain Sciences, Doctoral and Master's Programs in Psychology, Doctoral and Master's Programs in Nursing Sciences), and Graduate School of Library, Information and Media Studies.

### 3. APPLICATION SUBMISSION

Please submit your application form and other related documents listed in 8. DOCUMENTS REQUIRED FOR SUBMISSION in person by the due date given below.

**Application period:**

Monday, 16 November 2015 - Wednesday, 18 November 2015 (Between 9am and 5pm)

**Application needs to be submitted to:**

The Office of Ph.D. Program in Empowerment Informatics (EMP Office)

Room 3A218, Level 2, Building 3A, University of Tsukuba

### 4. PRESENTATION SLIDES

Please submit a copy (copies) of your presentation slides that you are going to use for your oral examination by the due date given below.

**Submission due date:** Wednesday, 2 December, no later than 5pm

**【In person】**

Print two slideshows on both sides of each page and submit 6 copies to EMP Office during office hours (weekdays 9am-5pm).

**【By email】**

Submit a soft copy of your presentation slides (PDF) to: [emp-admission@un.tsukuba.ac.jp](mailto:emp-admission@un.tsukuba.ac.jp)

### 5. EXAMINATION METHODS

The oral examination will be conducted on **Monday, 7 December 2015**.

The examination takes the form of a presentation and an interview. You will be asked to offer a presentation about your research plan and career plan followed by an interview.

**【For entry to the 1st year of the program】**

Research Plan Presentation	5 minutes
Career Plan Presentation	5 minutes
Interview	10 minutes

**【For entry to the 3rd year of the program】**

Research Achievement & Plan Presentation	10 minutes
Career Plan Presentation	5 minutes
Interview	15 minutes

The examination time will be announced in 'Information for Examinees' sent to you via email after your application is lodged.

(NOTE)

- You need to save your presentation slides in your PC and bring it to the examination site for your presentation. Just in case, save the slides in your USB and bring it to the examination site as well.
- If you wish to use a Mac computer, please bring an adaptor to connect it to a projector.

## 6. EXAMINATION SITE

**Place:** Area 3, the University of Tsukuba

The details of the examination schedule and place will be notified in 'Information for Examinees' sent to you via email after your application is lodged.

## 7. APPLICANTS WHO NEED SPECIAL ASSISTANCE

If you have a disability and need special assistance, please contact the EMP Office no later than Monday, 9 November 2015 for arrangements.

## 8. DOCUMENTS REQUIRED FOR SUBMISSION

### i. Application Form

Get signatures from the Chair and your planned supervisor of the program that has already offered you admission.

### ii. Reference Card & Photo Card

Attach the same photos to the cards.

### iii. Research Plan

Summarize your research plan after enrolling in this program within 1,000 characters (Japanese) or 500 words (English). The font size should be 11 point and the layout of the form should not be changed. Tables, figures, and other graphics should not be included in the form.

Your research plan will mainly be assessed according to the following four criteria that examine to what extent you have;

- expertise and presentation skills appropriate for Empowerment Informatics
- fundamental skills for interdisciplinary research
- the ability to investigate issues from multiple perspectives
- the potentiality to play active roles in an international society.

### iv. Career Plan

Summarize your career plan after completing this program (earning your doctoral degree) within 1,000 characters (Japanese) or 500 words (English). The font size should be 11 point and the layout of the form should not be changed. Tables, figures, and other graphics should not be included in the form.

Your career plan will mainly be assessed according to the following three criteria that examine to what extent you have;

- the qualities needed to take an initiative as a global leader
- the potentiality to develop and pass on technology that matches the needs of the society
- the abilities to tackle and resolve complicated social issues.

v. Letter of Acceptance

Submit a copy of the Letter of Acceptance issued by the University of Tsukuba.

vi. Graduate Certificate/ Degree Certificate (prospective) & Academic Transcript

**【For entry to the 1st year of the program】**

Submit official documents issued by the university where you earned/are expected to earn your bachelor's degree.

**【For entry to the 3rd year of the program】**

Submit official documents issued by the university where you earned/are expected to earn your master's degree.

(NOTE)

Applicants who completed (are expected to complete) their course outside the University of Tsukuba need to provide grade point average (GPA) indicated in an official document if available.

vii. TOEIC Official Score Certificate/ TOEFL Examinee Score Record

Submit an original copy of TOEIC Official Score Certificate or TOEFL Examinee Score Record of the test you sat for in April 2013 or later.

Applicants who have already submitted the original copy when applying for the program to which you initially wished to be admitted, please have the certificate/record reissued and submit it.

All applicants whose first or native language is English\* are exempted from this requirement.

\* Applicants exempted from this requirement include;

- 1) those from a country where English is an official language
- 2) those who completed their undergraduate course fully conducted in English.

(NOTE)

Those applicants are required to submit a request letter given in **viii**.

viii. Request Letter

If you wish to request the exemption for TOEIC or TOEFL score requirements as given above, submit a request letter that briefly summarizes your own linguistic background including your academic history and English language proficiency.

## 9. EXAMINATION FEES

Not required.

\*All the applicants entitled to this admission have already paid their examination fees.

## 10. RELEASE OF RESULTS

The examinee numbers of successful applicants will be posted to our website

(<http://www.emp.tsukuba.ac.jp/english/>) on Friday, 18 December 2015. Letters of Course Enrollment Permission will be sent to the successful applicants by registered mail on the day.

(NOTE)

Any inquiries made about results cannot be responded to.

## 11. ENROLLMENT PROCEDURES

Admission Procedures Documents will be sent to the successful applicants on day, Wednesday, 17 February 2016. When you fill in 'Affiliation' fields in the required forms, please write 'School of Integrative and Global Majors' under 'Graduate Course' and 'Ph.D. Program in Empowerment Informatics' under 'Research Course'.

**Submission Period:** Early in March 2016 (tentative)

\* Please check the Admission Procedures Documents for further details.

**Admission Fees:** 282,000 yen

\* The following students will be exempted from admission fees.

- MEXT scholarship students
- Students who will be enrolled in this program from the third year straight after completing any of master's courses at the University of Tsukuba in March 2016

**Tuition Fees:** 535,800 yen per year (Semester 1: 267,900 yen Semester 2: 267,900 yen)

Students enrolled in this program are entitled to an exemption and a deferment of tuition fees. Please do not pay your tuition fees before your course starts.

Who is eligible:	Exemption type	Tuition fees
Students enrolled in the 1st year	A half exemption	Semester 1: 133,950 yen Semester 2: 133,950 yen
Students enrolled in the 3rd year	A full exemption	Nil

### Others

International applicants must acquire a Status of Residence suitable for entrance to a graduate school, in accordance with the Immigration Control and Refugee Recognition Act (Cabinet Order No. 319 of 1951), before beginning enrollment procedures. Those who wish to enroll in this program as an international student must acquire Status of Residence as a "Student."

## 12. FINANCIAL SUPPORT

Students enrolled in this program are entitled to receive financial support in the form of stipend until March 2020. Any students receiving other forms of financial aid such as the Japanese Government (MEXT) Scholarship and JSPS Research Fellowship for Young Scientists (DC) are not entitled to apply for this financial support scheme.

## 13. CONTACT INFORMATION

Office of Ph.D. Program in Empowerment Informatics (EMP Office)

School of Integrative and Global Majors, University of Tsukuba

1-1-1 Tennodai, Tsukuba, Ibaraki 305-8573 Japan

Phone: 029 853 8740

Email: [info@emp.tsukuba.ac.jp](mailto:info@emp.tsukuba.ac.jp)

# Ph.D. Program in Empowerment Informatics

## Program Faculty

### 【Research Supervisor】

Name	Position & Affiliation	Field of Research
Yuichi OHTA	Specially Appointed Professor, University of Tsukuba	Intelligent Informatics
Hiroo IWATA	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Intelligent Interaction Technologies, Graduate School of Systems and Information Engineering	Virtual Reality
Yoshiyuki SANKAI	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Intelligent Interaction Technologies, Graduate School of Systems and Information Engineering	Cybernetics
○Toshiyuki INAGAKI	Vice President of University of Tsukuba Professor, Faculty of Engineering, Information and Systems	Human Machine Systems
Kazuhiko KATO	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Computer Science, Graduate School of Systems and Information Engineering	Distributed Information Systems
▲Yutaka ABE	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Engineering Mechanics and Energy, Graduate School of Systems and Information Engineering	Energy Systems Engineering
Makoto ITOH	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Risk Engineering, Graduate School of Systems and Information Engineering	Cognitive Systems Engineering
Yoshiaki OHSAWA	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Policy and Planning Sciences, Master's Program in Service Engineering, Graduate School of Systems and Information Engineering	Social Systems Engineering
○Takehisa ONISAWA	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Intelligent Interaction Technologies, Graduate School of Systems and Information Engineering	Soft Computing, Kansei Engineering, Affective Engineering
▲Hiroyuki KITAGAWA	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Computer Science, Graduate School of Systems and Information Engineering	Data Engineering
Hideaki KUZUOKA	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Intelligent Interaction Technologies, Graduate School of Systems and Information Engineering	Computer Supported Cooperative Work
Ko SAKAI	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Computer Science, Graduate School of Systems and Information Engineering	Computational Neuroscience, Cognitive Neuroscience
Kazuhiro FUKUI	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Computer Science, Graduate School of Systems and Information Engineering	Computer Vision and Machine Learning
▲Koichi MIZUTANI	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Intelligent Interaction Technologies, Graduate School of Systems and Information Engineering	Medical Electronics, Welfare Technologies and Ultrasonic Electronics
Jun MITANI	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Computer Science, Graduate School of Systems and Information Engineering	Computer Graphics
Masahiko MORITA	Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Intelligent Interaction Technologies, Graduate School of Systems and Information Engineering	Neural Information Processing
Jun IZAWA	Associate Professor, Faculty of Engineering, Information and Systems Ph.D. Program in Empowerment Informatics, School of Integrative and Global Majors (SIGMA)	Neuromotor Control, Computational Neuroscience, Human Performance
Yoshinari KAMEDA	Associate Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Intelligent Interaction Technologies, Graduate School of Systems and Information Engineering	Intelligence Technology and Mixed Reality
Hiroaki KAWAMOTO	Associate Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Intelligent Interaction Technologies, Graduate School of Systems and Information Engineering	Biological Control Systems
Gaku SHOJI	Associate Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Engineering Mechanics and Energy, Graduate School of Systems and Information Engineering	Structural Reliability Engineering

Name	Position & Affiliation	Field of Research
Kenji SUZUKI	Associate Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Intelligent Interaction Technologies, Graduate School of Systems and Information Engineering	Mechano-Informatics
Fumihide TANAKA	Associate Professor, Faculty of Engineering, Information and Systems Doctoral and Master's Programs in Intelligent Interaction Technologies, Graduate School of Systems and Information Engineering	Social Robotics, Human-Robot Interaction
Yasufumi SARUWATARI	Professor, Faculty of Business Sciences Master's Program in Systems Management & Doctoral Program in Systems Management and Business Law, Graduate School of Business Sciences	Operations Research
Chizuru NISHIO	Professor, Faculty of Business Sciences Master's Program in Systems Management & Doctoral Program in Systems Management and Business Law, Graduate School of Business Sciences	Marketing Management
Masao YANAGA	Professor, Faculty of Business Sciences Master's Program in Advanced Studies of Business Law & Doctoral Program in Systems Management and Business Law, Graduate School of Business Sciences	Law
△Hirofumi YOSHITAKE	Professor, Faculty of Business Sciences Master's Program in Systems Management, Graduate School of Business Sciences	Business Administration
Saho AYABE	Professor, Faculty of Human Sciences Doctoral and Master's Programs in Psychology, Graduate School of Comprehensive Human Sciences	Perception and Cognitive Psychology
Sonoko OGAWA	Professor, Faculty of Human Sciences Doctoral and Master's Programs in Kansei, Behavioral and Brain Sciences, Graduate School of Comprehensive Human Sciences	Behavioral Neuroscience
Etsuko HARADA	Professor, Faculty of Human Sciences Doctoral and Master's Programs in Psychology, Graduate School of Comprehensive Human Sciences	Cognitive Psychology, Cognitive Engineering
Toshimasa YAMANAKA	Professor, Faculty of Art and Design Doctoral and Master's Programs in Kansei, Behavioral and Brain Sciences, Graduate School of Comprehensive Human Sciences	Kansei Science and Design
Sayoko TANAKA	Associate Professor, Faculty of Art and Design Doctoral and Master's Programs in Art and Design, Graduate School of Comprehensive Human Sciences	Science Visualization
△Akira MATSUMURA	Vice President of University of Tsukuba Director of University Hospital Professor, Faculty of Medicine	Neurosurgery
●Nobuhiro OHKOHCHI	Professor, Faculty of Medicine Master's Program in Medical Sciences & Doctoral Program in Clinical Sciences, Graduate School of Comprehensive Human Sciences	General Surgery
Kikue HIDAHA	Professor, Faculty of Medicine Doctoral and Master's Programs in Nursing Sciences, Graduate School of Comprehensive Human Sciences	Rehabilitation Nursing
Masashi YAMAZAKI	Professor, Faculty of Medicine Master's Program in Medical Sciences & Doctoral Program in Clinical Sciences, Graduate School of Comprehensive Human Sciences	Orthopaedic Surgery
Atsuyuki MORISHIMA	Professor, Faculty of Library, Information, and Media Science Doctoral and Master's Programs in Library, Information and Media Studies, Graduate School of Library, Information and Media Studies	Crowdsourcing, Data Engineering, Database Systems
Motoyuki AKAMATSU	Professor (Cooperative Graduate School Program), University of Tsukuba Prime Senior Researcher, Human Technology Research Institute, National Institute of Advanced Industrial Science and Technology (AIST)	Human Activity Sensing

- Appointed until 31 March 2017
- Appointed until 31 March 2018
- △ Appointed until 31 March 2020
- ▲ Appointed until 31 March 2021