

Graduate School of  
Bio-Applications and Systems Engineering (BASE),  
Tokyo University of Agriculture and Technology

Department of Bio-Functions and Systems Science  
(Doctoral Course)

## Application Forms and Guide

For students starting April 2021

Tokyo University of Agriculture and Technology

### Admission Policy of the Graduate School of Bio-Applications and Systems Engineering

Based on the purposes of its education, research and human resources development, the Graduate School of Bio-Applications and Systems Engineering seeks the following students who:

The Graduate School of Bio-Applications and Systems Engineering promotes interdisciplinarity and synergy in the field of bio-applications and systems engineering, and accepts a broad range of students without specific requirements for their fields of specialization and academic history. It accepts a broad range of students from throughout the world who are passionate about obtaining advanced specialized and interdisciplinary knowledge, interested in the development of cutting-edge science and technology, and driven to put their ideas into practice.

### Admission Policy of the Department of Bio-Functions and Systems Science

The Department of Bio-Functions and Systems Science aims at nurturing of human resources with master's degree who play an active part in a wide business world related to agriculture and engineering, with the foundation of various academic fields by learning the complicated biological functions, and human resources with doctoral degree who have advanced scientific knowledge and ability of problem-solving, and proceed pioneering research.

Therefore, it accepts a broad range of students:

- who have the interest in various new systems in the fusion field of agriculture and engineering, such as material, machine, information, medical/health, and material recycling systems learned from biological functions and systems, and desire to be active in broad field.
- who are interested in learning advanced professional knowledge and technology not only within specific field but also in interdisciplinary field, and desire to contribute sustainable, safe and secure society.
- who understand industrial and international needs and trends, and challenge to discovery and solution of practical problems.

**Important!**

You **MUST** contact your potential supervisor to confirm your research theme and examination schedule. You **MUST** also contact your potential supervisor in advance to discuss your future research plan.

Admissions Section, Koganei Student Support Office

**Guidelines for Applicants for April 2021 Admission**  
**Department of Bio-Functions and Systems Science (Doctoral Course)**  
**Graduate School of Bio-Applications and Systems Engineering (BASE)**  
**Tokyo University of Agriculture and Technology**

The Department of Bio-Functions and Systems Science has Master's course and Doctoral course. This Application Forms and Guide is for Doctoral course.

## **1. Student Quota**

Major : Bio-Functions and Systems Science

Student quota : A small number of students

Remarks: The student quota includes students from "Special Selection for Adults."

## **2. Application Eligibility**

Applicants must meet one of the following qualifications:

- (1) Applicants must either have a master's degree or an equivalent degree in a specialized field, or expected to earn the degree by the end of March 2021.
- (2) Applicants must either have earned a master's degree or an equivalent degree in a specialized field overseas, or expected to earn the degree by the end of March 2021.
- (3) Applicants must have studied in Japan required subjects by correspondence education offered by an overseas institution and expected to earn a master's degree or an equivalent degree in a specialized field by the end of March 2021.
- (4) Applicants must have finished an academic course offered by the Minister of Education, Culture, Sports, Science and Technology at an educational institute in Japan that provides courses offered by a foreign graduate school that functions under the educational system of a foreign country, and must have earned a master's degree or an equivalent degree in a specialized field.
- (5) Applicants must hold or expected to obtain a master's degree or equivalent by the end of March 2021, through course completion at the United Nations University (hereinafter referred to as UNU) as prescribed in Article 1 ② the Act on Special Measures Incidental to Enforcement of the Agreement between the United Nations and Japan regarding the Headquarters of the United Nations University (Act No.72 of 1976), which was established under the December 11, 1972 resolution of the General Assembly of the United Nations.
- (6) Those who have completed an education course at an overseas institution, (which the educational institutions has been designated as qualifying for admission), indicated in Qualification (4) above, or

those who have attended the United Nations University and passed an examination that is equivalent to the Examination of Doctoral Thesis Study Basic Ability, or those who are expected to pass the examination and are recognized as having academic ability that is considered equivalent to or exceeds that of those holding a master's degree, shall be deemed qualified.

(7) Students approved by the Minister of Education, Culture, Sports, Science and Technology

① Have graduated from university, have been engaged in research for at least two years in a university, research institute, or equivalent are recognized, according to the results of their research or undertakings, have academic ability equivalent to or exceeds that of those holding a master's or professional degree.

② Have completed 16 years of school curriculums overseas or 16 years of course curriculums provided by overseas schools through correspondence education in Japan, have been engaged in research for at least two years in a university, research institute or equivalent are recognized, having academic ability that is equivalent to or exceeds that of those holding a master's or professional degree determined by the research or undertakings.

(8) Applicants must have been recognized for having academic ability equivalent to a postgraduate's degree or recognized in a specialized field through individual admission screening, and must be 24 years of age as of April 1, 2021.

Note: Students applying by Qualification(7) or (8) above are required to undertake an examination of application eligibility (Prior Examination). (See the "Approval of application qualifications (7) and (8).")

Having completed (or expected to complete) a six-year undergraduate program or equivalent in the field of medicine, dentistry, pharmacy or veterinary medicine alone is not sufficient for recognition as having academic ability that is equivalent to or exceeds that of those with a master's degree. Please note that applicants who only meet this requirement (having completed the six-year under graduate program or equivalent in the field mentioned above) are required to undertake an examination of application eligibility (Prior Examination).

### 3. Application Period

Tuesday, March 2 — Wednesday, March 3, 2021

Open Hours: 9:30 a.m. – 11:30 a.m., 1:30 p.m. – 4:00 p.m.

Your application must be submitted in person or by postal mail. Applications submitted by postal mail must be sent by registered express mail and arrive no later than Wednesday, March 3, 2021.

### 4. Application Procedure

- (1) If applying for Standard Selection, please refer to page 3, “5. Standard Selection”. If applying for Adult Special Selection please refer to page 5, “6. Special Selection for Adults”.
- (2) If submitting your application in person, please visit the Admissions Section, Koganei Student Support Office. If you submit your application by postal mail, write “Enclosing application documents for the joint department” on the address side of the envelope in red, and send it to the Admissions Section, Koganei Student Support Office by registered express mail. Only application documents that arrive no later than Wednesday, March 3, 2021 will be accepted.

#### Where to submit your application and further information:

**Admissions Section, Koganei Student Support Office,  
Administration Building 1F, Koganei Campus,  
Tokyo University of Agriculture and Technology  
2-24-16, Naka-cho, Koganei-shi, Tokyo 184-8588  
Tel: +81-42-388-7014 (direct line)**

### 5. Standard Selection

Standard selection involves a combination of academic achievement testing and document screening. Participants with disabilities who require special care to attend the examinations and/or take part in learning activities of the department are urged to contact the Admissions Section, Koganei Student Support Office in advance.

#### (1) Application and other documents

Application documents		Notes
A	Application for Admission (prescribed form)	Make sure that the “Potential supervisor” column is filled in.
B	ID Photo Card/ Examination Admission Card (prescribed forms)	An identification photo of the applicant with the head uncovered (4 cm high × 3 cm wide) must be pasted onto each of the ID Photo Card/Examination Admission Card forms.
C	Certificate of (expected) Completion of course	Submit your certificate of (expected) completion of a master’s degree issued by your graduate school. Those who satisfy application qualification (7) or (8) and who are in master’s course of BASE are exempted from this requirement.

D	Certificate of graduate school academic achievements	Submit your certificate of academic achievements issued by your graduate school. Those who satisfy application qualification (7) or (8) and who are in master's course of BASE are exempted from this requirement.
E	Outline of Master's Thesis (prescribed form)	If you have completed a master's degree or are currently in graduate school, you are required to submit a summary of your master's thesis, up to 2,000 Japanese characters (or 500 English words). If you have separate documents related to your master's thesis or copies, attach them as well. Those who satisfy application qualification (7) or (8), who are in master's course of BASE are exempted from this requirement.
F	Research Proposal (prescribed form)	Submit a summary of your research plan for the doctoral curriculum, up to 2,000 Japanese characters (or 500 English words). Be sure to contact your potential supervisor in advance regarding formulation of your plan and gain his/her approval.
G	Statement of Purpose (prescribed form)	Research students or master's course students of BASE are exempted from this requirement.
H	A copy of the certificate of residence (Original copy)	1) Non-Japanese applicants are required to submit a copy of the certificate of residence (Nationality, Visa status, duration, and the expiry date of visa must be mentioned) or a copy of passport. 2) Government-sponsored international students are required to submit a Certificate of Minister of Education, Culture, Sports, Science and Technology (MEXT) Scholarship Student. Those who are in Tokyo University of Agriculture and Technology are exempted from this requirement.
I	Entrance examination fee	30,000 yen (Fill in the applicant's name (with the pronunciation written in katakana) and address on the entrance examination fee payment form, then pay the fee at a counter of the post office/Japan Post Bank. Next, paste the certificate of payment for the money transfer "Entrance Examination Payment Confirmation Slip" onto the Confirmation of Entrance Examination Fee Payment form and submit it to the department.) * Students in master's course of Tokyo University of Agriculture and Technology who are continuing on their studies in the university and Minister of Education, Culture, Sports, Science and Technology(MEXT) Scholarship Student are exempted from paying this fee.
J	Reception Sticker and Contact Information Stickers (prescribed forms)	Fill in the necessary information on each form. If any changes occur in the information such as a change of address after submission, please inform the department as soon as possible.

## (2) Academic achievement test

An academic achievement test on the area of specialization and a language test will be conducted using the submitted summary of the applicant's master's thesis, research plan or similar as reference. However, students who have published academic papers in non-Japanese languages may be exempted from attending the language test depending on the results of document screening.

### (3) Date and location of the academic achievement test

Date: Monday, March 15, 2021

Location: Koganei Campus, Tokyo University of Agriculture and Technology

Further information about the location and other details will be given separately to each applicant.

## 6. Special Selection for Adults

### (1) Purpose

With the remarkable progress of the bio-applications and systems engineering, educating the experts of the specialized field of BASE is demanded from various quarters of society. To respond the requests from society and necessity of the professional engineer re-education, we aim to interact with university and society at doctoral program of BASE.

### (2) Selection Procedures

Special selection for Adults involve a combination of academic achievement testing and document screening apart from standard selection for participants who are working at research institutions, educational institutions, or companies more than 1 year or who were working more than 1 year after graduating the last school.

Participants with disabilities who require special attention to attend the examinations and/or take part in learning activities of the department are urged to contact the Admissions Section, Koganei Student Support Office in advance.

In addition, applying to standard selection is not admitted.

### (3) Application and other documents

Application documents		Notes
A	Application for Admission (prescribed form)	Make sure that the “ Potential supervisor” column is filled in.
B	ID Photo Card/ Examination Admission Card (prescribed forms)	An identification photo of the applicant with the head uncovered (4 cm high × 3 cm wide) must be pasted onto each of the ID Photo Card/Examination Admission Card forms.
C	Certificate of (expected) completion	Submit your certificate of (expected) completion of a master’s degree issued by your graduate school. Those who satisfy application qualification (7) or (8) are exempted from this requirement.
D	Transcript	Submit a transcript issued by your graduate school. Those who satisfy application qualification (7) or (8) are exempted from this requirement.
E	List of research achievements (prescribed form) and separate related sheets	Submit a list of your past research achievements (academic papers, research presentations, reports, patents, etc.). If there are reprints or copy of the research achievement, submit them together with the list of past research achievements.



F	Certificate of Employment (optional style)	Submit a certificate of employment which includes your job description and period of employment, issued by manager of your institution or company.
G	Research Proposal (prescribed form)	Submit a summary of your research plan for the doctoral curriculum, up to 2,000 Japanese characters (or 500 English words). Be sure to contact your potential supervisor in advance regarding formulation of your plan and gain his/her approval.
H	Statement of Purpose (prescribed form)	Develop a summary of your reasons for application, up to 2,000 Japanese characters (or 500 English words).
I	A copy of the certificate of residence (Original copy)	1) Non-Japanese applicants are required to submit a copy of the Certificate of Residence (Nationality, Visa status, duration, and the expiry date of visa must be mentioned) or a copy of passport. 2) Government-sponsored international students are required to submit a Certificate of Minister of Education, Culture, Sports, Science and Technology (MEXT) Scholarship Student.
J	Entrance examination fee	30,000 yen (Fill in the applicant's name (with the pronunciation written in katakana) and address on the entrance examination fee payment form, then pay the fee at a counter of the post office/Japan Post Bank. Next, paste the certificate of payment for the money transfer "Entrance Examination Payment Confirmation Slip," onto the Confirmation of Entrance Examination Fee Payment form and submit it to the department.) * Students in master's programs of the Tokyo University of Agriculture and Technology, who are continuing on their studies in the university, and Minister of Education, Culture, Sports, Science and Technology(MEXT) Scholarship Students are exempted from paying this fee.
K	Reception Sticker and Contact Information Stickers (prescribed forms)	Fill in the necessary information on each form. If any changes occur in the information such as a change of address after submission, please inform the department as soon as possible.

#### (4) Academic achievement test

An oral test on the area of specialization will be conducted using the submitted research achievements, research proposal or similar, as reference.

#### (5) Date and location of the academic achievement test

Date: Monday, March 15, 2021

Location: Koganei Campus, Tokyo University of Agriculture and Technology

Further information about the location and other details will be given separately to each applicant.

## 7. Announcement of Successful Applicants

A list of successful applicants will be posted at 10 a.m. on Monday, March 22, 2021 on the bulletin board on the first floor of the Administration Building at Koganei Campus. A letter of acceptance and admission procedure documents will be handed or sent by postal mail to each successful applicant.

## 8. Admission Procedure

### (1) Time, date, and location for students starting April 2021

Date and time: Friday, March 26, 2021

Venue: Koganei Campus

\* Details will be provided separately.

### (2) Fees to be paid on admission

① Admission fee: 282,000 yen

\* Students in master's programs of the Tokyo University of Agriculture and Technology who are continuing on their studies in the university and Minister of Education, Culture, Sports, Science and Technology(MEXT) Scholarship Students are exempted from this fee.

② Tuition fee: an annual amount of 535,800 yen (267,900 yen each for the first and the second semester. )

Should the tuition fee change during enrollment, the new tuition fee will be applicable upon amendment.

Students who are expected to graduate from the Tokyo University of Agriculture and Technology (including the university forming the United Graduate School of Agricultural Science) are not required to pay the entrance examination fee and the entrance fee for the Article 39. 2 of the university regulations of TUAT.

#### Article 39. 2 University Regulations of TUAT

Students who are expected to graduate from the master's course of the Graduate school of Tokyo University of Agriculture and Technology (including the university forming the United Graduate School of Agricultural Science) and continue on to Doctoral Course are not required to pay the entrance fee and the entrance examination fee.

### (4) Necessary documents

Students who will be enrolling in the department without leaving their work are required to submit an Approval of Admission (prescribed form) completed by their immediate manager. Those who are in another graduate school are required to submit a "Certificate of Leaving." Failure to submit these documents may cause cancellation of their admission.

## **(5) Others**

Students with disabilities who require special care to take part in learning activities of the department are urged to contact the Admissions Section, Koganei Student Support Office in advance.

## **9. Important Reminders**

- (1) Be sure to contact the potential supervisor and obtain confirmation in advance regarding your application.**
- (2) Make sure that you bring your Examination Admission Card with you when attending the academic achievement test.
- (3) You are not allowed to make any changes in the submitted documents once the application procedure has been completed.
- (4) If you do not follow the directions given in this document or instructions given by the university, you may not be allowed to take part in the entrance examination.
- (5) For inquiries regarding the entrance examinations, use the Contact Information provided on page 3.
- (6) More information on the entrance examination will be provided at the time of application.
- (7) Your examination fee will not be refunded for any reason once payment has been completed.
- (8) Any changes in regarding the entrance examinations will be immediately announced to each applicant.

## 10. List of Areas of Education and Research

If your supervisor has a ※mark on the right side of the name , please contact ※supervisor.

Areas of education/research	Supervisor
Functional Designing of Materials	Kenji OGINO, Professor
	Yuichiro NAGATSU, Assoc. Prof.
Functional Application of Materials	Eika W. QIAN, Professor
	Susumu INASAWA, Assoc. Prof.
Functional Analysis of Materials	Yohey HASHIMOTO, Assoc. Prof.
	Kazuya NAKATA, Assoc. Prof.
Biomedical Photonics	Izumi NISHIDATE, Assoc. Prof.
Bio-modeled Sensory Systems	Kaori FUJINAMI, Professor
Environmental Mechanical Systems	Hiroshi ISHIDA, Professor
	Takashi Ikegami, Assoc. Prof. ※
Biological and Environmental Application Systems	Yuki UEDA, Professor
	Taiji OKANO, Assoc. Prof. ※
Biomass Production and Utilization Systems	Shinya KAJITA, Professor
	Takeshi SUZUKI, Assoc. Prof.
Material energy systems	Hidehiro KAMIYA, Professor
Material energy design	Yoichi TOMINAGA, Professor
Energy systems analysis	Atsushi AKISAWA, Professor
Biological information measurement systems	Koji MASUDA, Professor
Food safety science	Ryoichi SATO, Professor
Regulatory systems of biological response	Taishi UMEZAWA, Professor
Ecological environment systems	Koki TOYODA, Professor
Environment monitoring systems	Nobuyuki AKAI, Assoc. Prof. ※

## **Approval of Application Qualifications (7) and (8)**

There are cases in which applicants are required to have their application qualifications approved by the Graduate School of Bio-Applications and Systems Engineering. The aim of the process is to judge whether the applicant is eligible to apply to the graduate school, and will be implemented as described below.

### **1. When and where to submit your application documents**

Period: Thursday, February 18 — Friday, February 19, 2021

Hours: 9:30 a.m. — 11:30 a.m., 1:30 p.m. — 4:00 p.m.

Location: Admissions Section, Koganei Student Support Office,

1F, Administration Building, Koganei Campus,  
Tokyo University of Agriculture and Technology

If you are unable to submit your documents in person, and send them by postal mail, write “Enclosing application eligibility documents for the joint department” on the address side of the envelope in red, and send it to the Admissions Section, Koganei Student Support Office by registered express mail. Only documents that have arrived no later than Friday, February 19, 2021, will be accepted.

### **2. Documents for submission**

- (1) Application for Approval of Admission Eligibility (prescribed form)
- (2) Certificate of (expected) Completion of course (issued by the principal of your last school)
- (3) Certificate of Academic Achievements (issued and tightly sealed by the principal of your last school). Applicants who graduated from their last school 10 years ago or earlier do not need to submit their transcripts.
- (4) For standard selection, please submit G at the page 4. For Special Selection for Adults, please submit E, F, H, at the page 6.

### **3. Examination for approval**

The Graduate School of Bio-Applications and Systems Engineering will examine applicants through document screening, interviews, and other such processes.

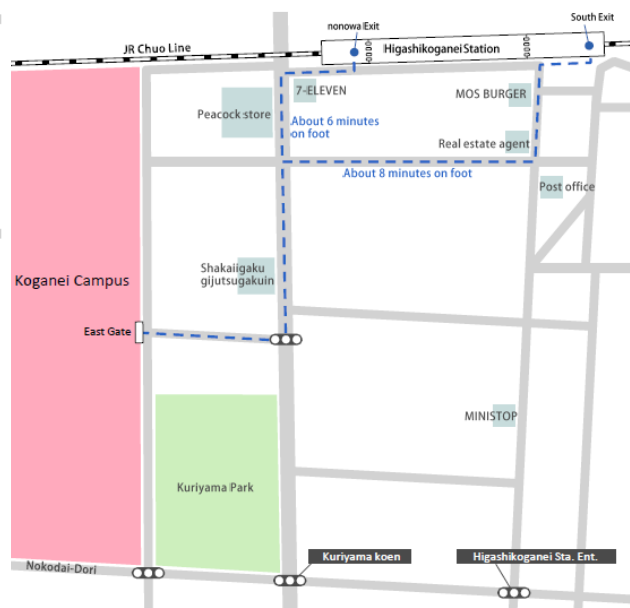
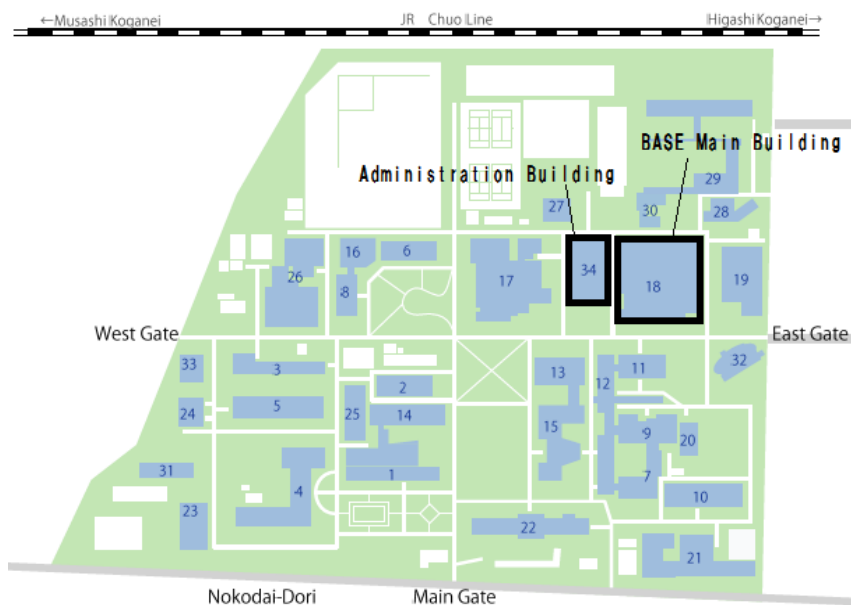
### **4. Results**

Results will be sent to each applicant by postal mail on Friday, February 26, 2021.

### **5. Application procedure**

In general, once you receive an approval of Application Eligibility, you must follow the same application procedure as applicants for the entrance examinations.

## 10 Campus Map and Directions



1 Building 1: Department of Applied Chemistry, Department of Organic and Polymer Materials Chemistry and Department of Chemical Engineering	6 Building 6: Department of Mechanical Systems Engineering	13 Building 13: International Center	24 Center for Environment and Safety
2 Building 2: Department of Mechanical Systems Engineering	7 Building 7: Department of Computer and Information Science	14 New Building 1: Department of Applied Chemistry and Department of Electrical and Electronic Engineering	25 Center for Design and Manufacturing
3 Building 3: Department of Electrical and Electronic Engineering and Department of Industrial Technology and Innovation	8 Building 8: Information Media Center	15 Lecture Hall Building for the Faculty of Engineering	26 Gymnasium
4 Building 4: Department of Organic and Polymer Materials Chemistry, Department of Chemical Engineering, Department of Applied Physics, and Department of Industrial Technology and Innovation	9 Building 9: Department of Mechanical Systems Engineering	16 Main Building	27 Faculty of Engineering RI Laboratory Building
5 Building 5: Department of Chemical Engineering, Department of Electrical and Electronic Engineering, Instrumentation Analysis Center and Department of Industrial Technology and Innovation	10 Building 10: Department of Biotechnology and Life Science, Department of Applied Chemistry, and Department of Computer and Information Sciences	17 Koganei Library	28 Koganei International House
	11 Building 11: Department of Biotechnology and Life Science and Department of Mechanical Systems Engineering	18 Graduate School of Bio-Applications and Systems Engineering (BASE)	29 Male Dormitory "Keyaki"
	12 Building 12: Department of Biotechnology and Life Science, Department of Organic and Polymer Materials Chemistry, Department of Mechanical Systems Engineering, and Department of Computer and Information Sciences	19 Faculty of Engineering Multipurpose Hall, Coop Store and Cafeteria	30 Female Dormitory "Sakura"
		20 CAD/CAM Laboratory	31 Staff Housing No. 2
		21 University Research Administration Center—URAC (Venture Business Laboratory / Joint Research Facilities / Incubation Facilities)	32 The 140th Year Commemorative Building (Ellipse)
		22 Nature and Science Museum	33 Research Center for Next Generation Capacitor
		23 Research Center for Science and Technology	34 Administration Building(CUBE): Administration Office

### ◎Means of transportation

JR Chuo Line Higashi-Koganei Station (about 22 minutes from Shinjuku)

About 6 minutes walk from the nonowa Exit.

About 8 minutes walk from the South Exit.

JR Chuo Line Musashi-Koganei Station (about 13 minutes from Tachikawa)

About 13 minutes walk from the South Exit.

2-24-16, Naka-cho, Koganei-shi, Tokyo 184-8588 Tel: +81-42-388-7014 (direct line)

**Admissions Section, Koganei Student Support Office,  
Tokyo University of Agriculture and Technology**



## ID Photo Card

Photo space

4cm×3cm

ID number	*
Areas of education / research	
Potential supervisor	
Furigana	
Name	
Date of birth	/ /

Notes: Do not fill in the section marked \*

## Examination Admission Card

Photo space

4cm×3cm

ID number	*
Areas of education / research	
Potential supervisor	
Furigana	
Name	
Date of birth	/ /

Notes: Do not fill in the section marked \*



## Outline of Master's Thesis

ID number	*	Areas of educated/ research		Name	
Title of Master's Thesis					
Outline of Master's Thesis					

Notes: Summarize your master's thesis in a specific and concise manner. You may use figures, tables, and equations if necessary.

Do not fill in the section marked with a \*

## List of Research Achievements

ID number	*	Areas of educated/ research		Name	
Names of academic papers, research presentations, reports, parents, or other such documentation			Dates of publication	Names of places of publication (publishers, journals, conferences, etc.)	Remarks (names of co-authors, co-presenters, etc.)

Notes: Your list should be in chronological order. As for academic papers and other such documentation, you should attach any separate sheets related to your papers or copies thereof.

Do not fill in the section marked with a \*

# Research Proposal

ID number	*	Areas of educated/ research		Name	
Title of research (that you wish to undertake)					
Outline of research (that you wish to undertake)					

Do not fill in the section marked with a \*

ID number
*

## Statement of Purpose

I apply to Department of Bio-Functions and Systems Science (Doctoral course), Graduate School of Bio-Applications Systems Engineering (BASE), Tokyo University of Agriculture and Technology for the following purpose.

/ /  
(mm / dd / yyyy)

Organization□Position \_\_\_\_\_

Name \_\_\_\_\_ Seal

©Please write a summary of your reasons for application and a relation between your research experience and research plan in doctoral course up to 2,000 Japanese characters (or 500 English words).

## Application for Approval of Admission

Furigana Name		Seal	Current job	
Date of birth Age	/ / ____years old		Current address	□ Tel
<b>Resume</b>				
mm/dd/yyyy	Items			
<b>Work Experience</b> (Describe your research, development , and other duties in detail.)				
mm/dd/yyyy	Items			
<b>Academic and Social Activities</b>				
mm/dd/yyyy	Items			

## Approval of Admission

Name

The purpose of this letter is to grant the above person approval to enroll in the Department of Bio-Functions and Systems Science (Doctoral course), Graduate School of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology, without leaving their current place of occupation.

Developed on:        /        /

To: Dean of the Graduate School of Bio-Applications and Systems Engineering,  
Tokyo University of Agriculture and Technology

Address

Organization

Manager

seal

## Confirmation of Entrance Examination Fee Payment Form

ID number	*
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**Affix Entrance Examination  
Payment Confirmation Slip  
here.**

Notes:

1. The certificate must have a valid postmark.
2. Make sure to fill in your name and address on Entrance Examination Payment Confirmation Slip.
3. Keep your copy of your money transfer invoice/receipt safe. DO NOT affix it here.
4. As a rule, we will not refund your examination fee once paid.

Do not fill in the section marked with a \*

