



Tokyo University of Agriculture and Technology (TUAT)

## WISE Program\*

(Doctoral Program for World-leading Innovative & Smart Education)

Excellent Leader Development for Super Smart Society by  
New Industry Creation and Diversity

## Call for applications October 2021 Enrollment

\*The WISE Program is a five-year integrated doctoral course in which students can acquire credits for additionally-provided lectures and praxis while being enrolled in a regular graduate school. The Program offers students the following kinds of experiences.

1. Studying abroad and taking part in international collaborative research with overseas research institutions
2. Carrying out collaborative research with private companies
3. Practicing steps toward entrepreneurship and business creation

Applicants should be enrolled in Master course of TUAT in April or October 2021 or Doctoral course of TUAT in October 2021, with a strong determination to obtain Ph.D. at TUAT. For more details, please refer to the qualification requirements outlined on Page 4.



Tokyo University of Agriculture and Technology

# What is the WISE Program?

## Program Outline

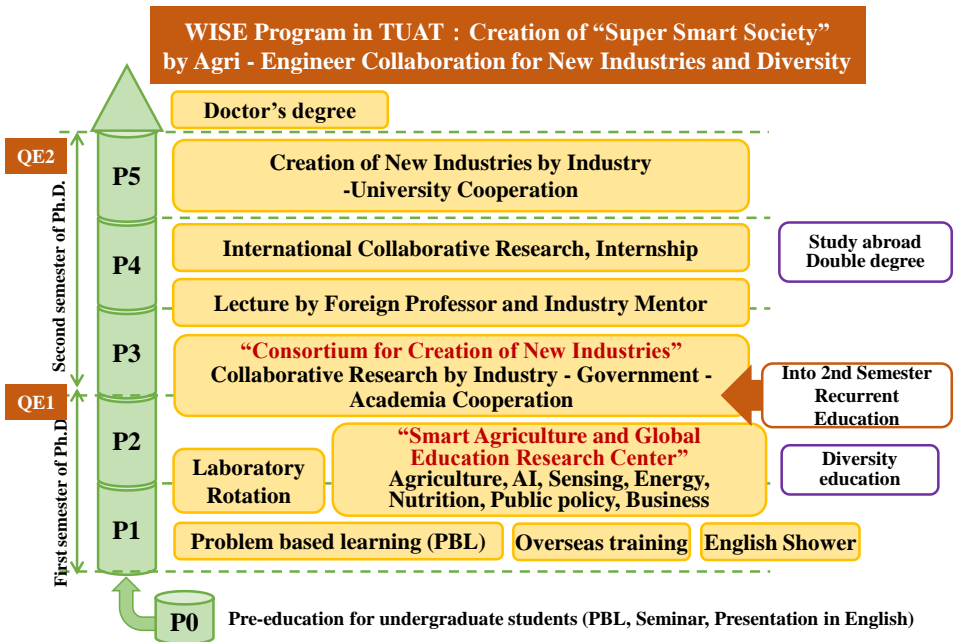
The Tokyo University of Agriculture and Technology (TUAT) WISE Program (Program name: Excellent Leader Development for Super Smart Society by New Industry Creation and Diversity) is making a call for student applications – Students in any areas and majors at TUAT are eligible.

The distinctive features of the WISE Program are the creation of new industries and diversity. One of the Program's themes is the creation of new industries that revolutionize agriculture and distribution through the application of cutting-edge engineering technology. This is achieved through agri-engineer collaboration, and cooperation with private companies and overseas research / educational institutions. The Program seeks to cultivate high-level human resources with doctoral degrees having great freedom in setting their research theme from various research areas. Specifically, the Program aims to nurture Ph.D. degree holders with the following type of capabilities.

1. Those who will leverage the collaboration of agriculture and engineering, and use high engineering technology to create new industries that offer solutions for the social challenges presented by agriculture and related fields
2. Those who will reinforce and provide the diversity (e.g., gender, nationality, social experience) for promoting innovation
3. Those who have the capacity for having holistic perspectives, creativity, an appreciation and understanding of diversity, internationally mind and competitive strengths and high-level expertise

## Curriculum

In the first and second years of the Program, students engage in group work to acquire problem-solving skills. Training abroad at an overseas partner institution is implemented to enhance English language skills and provide overseas experience. There are also lectures by businesspersons from cooperation companies as well as project-based practical education through the Consortium for the Creation of New Industries, which consists of private companies and public research institutions.



Industry and academia will work together to develop human resources.

From the third year of the Program, students also engage in practical activities – including issue-proposal-type (problem-based) joint industry-academia research and international collaborative research at overseas partner institutions – to acquire useful skills for working in the industrial world.

In order to complete the program, students select and complete the distinctive courses offered by the Program and pass Qualifying Examination (QE) in addition to the requirements for completion of each major. In principle, the QE is conducted in the second semester of the second year of the Master's Program (QE1) and in the third year of the Doctoral Program (QE2).

# The WISE Program's Distinctive Assistance

## Assistance for Studying Abroad

The WISE Program offers various assistance and support related to the development of global human resources. For example, short-term overseas training (about 1 week) is carried out for Program students in their first and second years, and assistance is offered for related travel expenses. Studying abroad (including laboratory rotation) is also available. Meanwhile, from the third year onward, generous assistance is offered in relation to expenses for medium- to long-term (6 months to 1 year) studies abroad. During the preparatory period for such studies abroad, assistance for boosting English language skills is provided through “English Shower” training.



## Assistance for Gaining Work Experience



Program students attend lectures given by businesspersons and researchers, who work at private companies or partner research institutions, for an opportunity to hear real-world stories from the front line of industry. From the third year onward, students can receive guidance for proposing themes for doing research with companies, or advises to get research funds. There is a variety of assistance offered for the nurturing of PhDs who are strongly motivated to contribute to the industrial world. It includes support that cannot be experienced through conventional post graduate education, such as student research developing into joint research between the student and a company.

## Assistance for after Program Completion



To help PhD students who have completed the Program find positions at appropriate places, such as in industry or at international organizations, where they can play an active role, the Program offers assistance to connect Program PhD students with private companies, organizations and institutions etc..

## Assistance for Proactive Learning

Program students summarize their learning from lectures and exercises in a portfolio for continuous self-evaluation. They also carry out self-evaluations of their problem-setting capabilities, conceptual abilities, creativity, planning and implementation capacities, integration competency, diversity comprehension, and communication skills. Doctoral advisors and collaborative teaching staff then evaluate them as competency evaluations for encouraging the self-growth. These evaluations can be confirmed online using smartphones and other devices. Students can see how their Program experiences lead to the self-growth, which makes efficient learning possible for students.

## **Qualification Requirements** (Student who satisfies either of the following (1) or (2))

- (1) Students who enrolled in the first year of the Master courses (including the first year of Professional Degree Course and the first year of the five-year integrated Doctoral course in BASE) at TUAT in April or October 2021, who have the intention to go on to the Doctoral courses at TUAT after obtaining Master degrees, and who have goals that match with the educational and research philosophies of the WISE Program.
- (2) Students who enrolled in the first year of the Doctoral courses (including the first year of Cooperative Division of Veterinary Sciences and the third year of the five-year integrated Doctoral course in BASE) at TUAT in October 2021 and who have goals that match with the educational and research philosophies of WISE Program.

- \* Applicants will be widely recruited, and there are no restrictions in regard to majors, area of research, nationality, gender, or working status (i.e., working adults are included).
- \* Please note that before making your application to this program, you have to receive an approval of your supervisor and confirm the content of your research, date of interview, etc. If you are admitted as a student of this program, you must contact your academic adviser and confer on your research plan going forward, etc.
- \* Applicants who pass the final selection and are admitted to the program shall take prescribed subjects. After obtaining a fixed number of credits and passing the QE2, the student shall have "WISE Program completed" in the degree notation column. The degree itself (Master's or Doctorate) will be obtained from the graduate school of affiliation.

## **Application Form**

The application form will be published on the Website of WISE program or TUAT Student Bulletin Board and will also be available at the Fuchu and Koganei Student Support Offices, Educational Affairs Division Student Support Office, and through academic advisors.

## **Selection / Admission Criteria for the Program**

### **1. Initial Selection: Document screening**

A comprehensive assessment will be made of such matters as academic grades and the reason for application.

### **2. Secondary Selection: Interview**

A comprehensive assessment will be made of academic and research capabilities as well as the understanding of and enthusiasm for this program, etc., through a 10-minute presentation on the topics that follow below as well as a 5-minute Q&A session (total of 15 minutes for the interview).

- 1) Reason for applying to the WISE Program
- 2) Summary of research carried out up to now and view of future research based on the expected learning experience in this program
- 3) Vision of future after completing the WISE Program and obtaining a PhD

Number of students admitted to the Program: M1 – Around 10 students ; D1 - Several

## **Application and Selection Schedule**

**Online explanatory meetings:** September 6 & 7 (Mon & Tue), 2021, 12:10-12:50 (same content)

**Application Period:** September 6 (Mon) to 17:00 September 13 (Mon), 2021

**Initial Selection (Document Screening) results:** sent via e-mail on September 22 (Wed), 2021

**Secondary Selection (Interviews):** Online Interview on September 29 (Wed), 2021

The details will be announced to successful applicants of the initial selection individually.

**Application results:** sent via e-mail on around September 30 (Thu), 2021

(Orientation for WISE Program students will be held from 15:00 on October 4 (Mon), 2021)

