



Tokyo University of Agriculture and Technology (TUAT)

WISE Program*

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

Fostering Brilliant Leaders by Emphasizing Diversity and the
Creation of New Industries to Drive a Super Smart Society

Call for applications to the AY2019 Program

*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 (a system to match doctoral candidates with companies will also be introduced)

Applicants must be those enrolling in (or advancing to) TUAT's graduate school during AY2019, with a strong determination to obtain a PhD at the university. For details, please refer to the qualification requirements outlined on Page 4.



Tokyo University of Agriculture and Technology

What is the WISE Program?

Program Outline

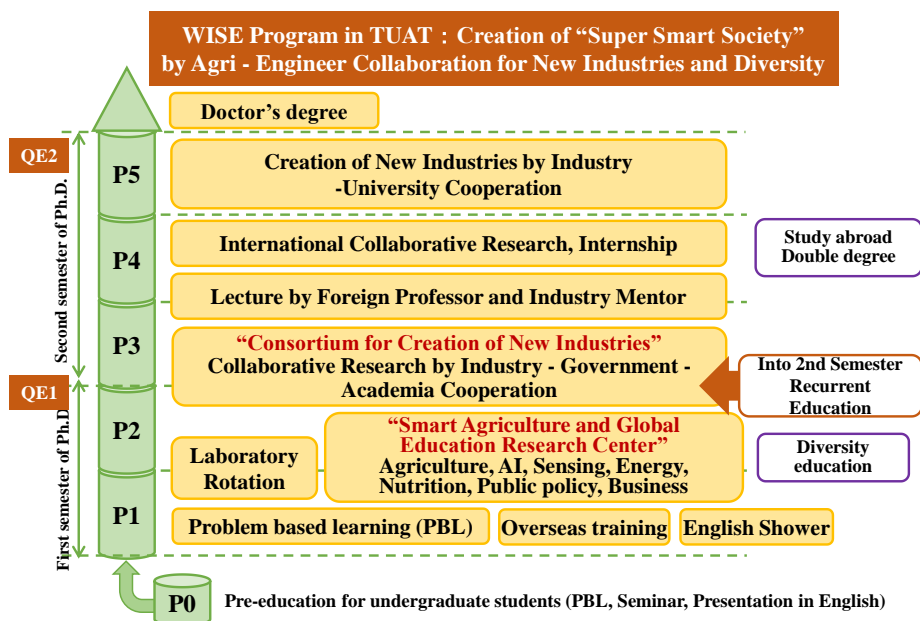
The Tokyo University of Agriculture and Technology (TUAT) WISE Program (Program name: Fostering Brilliant Leaders by Emphasizing Diversity and the Creation of New Industries to Drive a Super Smart Society) is making a call for student applications to the WISE Program. To be eligible, applicants must be enrolling in a Master's program (first semester of PhD / professional degree program) or Doctoral program (including second semester of PhD) at TUAT in AY2019. There are no restrictions in terms of the area of specialization – all areas and majors at TUAT are eligible.

The characteristic of the WISE Program is that it features 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 high engineering technology. This is achieved through agri-engineer collaboration, and cooperation with private companies and overseas research / educational institutions. The Program seeks to nurture advanced PhDs, with scholars having great freedom in setting their research theme from various research areas. Specifically, the Program aims to nurture PhD 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
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 big-picture thinking, creativity, an appreciation of diversity, internationally 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. Also implemented is training abroad at an overseas partner institution, intended 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 work as one to nurture 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 addition to completing one's major, a condition for completing the Program will be to select and study the distinctive subjects provided by the WISE Program and pass the Qualifying Examination (QE). The QEs are given two times – in the latter half 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 financial assistance 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 utilizing 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 be allocated research funds if their research proposal is approved. 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 through the development and implementation of a job matching system that brings Program PhD students and private companies together.

Assistance for Proactive Learning

Program students summarize their learning from lectures and exercises in a portfolio for continuous evaluation of self. 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 these as competency evaluations for encouraging self-growth. These evaluations can be confirmed online using smartphones and other terminals. Students can see how their Program experiences lead to self-growth, which makes efficient learning possible for students.

Qualification Requirements

•Students enrolling in the first year of a TUAT Master's degree program in AY2019 (including the first semester of PhD and the first year of the BASE five-year integrated doctoral course) and who have the intention of advancing to a Doctoral program or second semester of PhD at TUAT after obtaining a Master's degree, and possess goals that match the educational and research philosophies of the Program.

•Students enrolling in TUAT's doctoral program (including the second semester of PhD, United Graduate School of Veterinary Science four-year doctoral course, and the third year of the BASE five-year integrated doctoral course) and who possess goals that match the educational and research philosophies of the Program. In regard to the United Graduate School, the student must be enrolled at TUAT.

•There may be cases in which mid-year transfers are permitted for students other than the above.

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).

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.

*Please note that before making your application to this Program, you must receive the approval of your academic adviser and confirm the content of your research, date of interview, etc., without fail. 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., without fail.

Application Form

The application form will be published on the 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 as an undergraduate 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 Program
- 2) Summary of research carried out up to now and view of future research through the Program
- 3) Vision of future after completing the Program and obtaining a PhD

Number of students admitted to the Program: M1 – about 18 students; D1 – about 7 students

Application and Selection Schedule

Explanatory meetings: January 29, 2019 (Tues.) from 12:15 p.m. to 12:50 p.m. at classroom L1321 of the Koganei Campus

January 30, 2019 (Wed.) from 12:15 p.m. to 12:50 p.m. at Building 2 classroom 2-11 of the Fuchu Campus

Application period: From February 4, 2019 (Mon.) through February 15, 2019 (Fri.)

Initial selection (document screening): Successful applicants announced on February 20, 2019 (Wed.)

Secondary selection (interviews): Interviews carried out on February 28, 2019 (Thurs.)

Application results: Announced on March 1, 2019 (Fri.)

For inquiries, contact the Student Support Office, Educational Affairs Division
Tokyo University of Agriculture and Technology
E-mail: girkikaku@m2.tuat.ac.jp Phone: +81-42-367-5943/5953/5882