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

"WISE Program" proposed by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) creates hubs to continuously expand new collaborative research by cultivating exceptional doctoral talent in various sectors such as "leading researchers of world-class academia", "prominent innovators in industry", "entrepreneurs who lead the social implementation of new knowledge", and "public sector personnel in Japan and around the world who initiate policy proposals". Its purpose is to promote innovation encompassing the entire graduate school by systematic collaborations with outside organizations, including top overseas universities and private corporations. These endeavors will build a five-year integrated doctoral degree program that leverages world-class education and research faculties. In the first academic year, 54 applications were submitted (44 from 28 national universities and 10 from 10 public and private universities). Of these, 15 applications (14 from 12 national universities and 1 from a private university) were selected.

MEXT certifies universities with top-level education and research.

Selected universities in the first academic year (W2018):

- University of Tsukuba
- Hokkaido University
- University of Tokyo
- Osaka University
- Kyoto University
- The University of Tokyo
- Tokyo Institute of Technology
- Tokyo University of the Arts
- Tokyo Medical and Dental University
- Tohoku University of Agriculture and Technology

Universities selected for Top Global University Project
- 21 national universities

Universities selected for WISE Program for the first academic year
- 12 national universities

Top Global University Project

This program provides extensive support for top Japanese universities with world-class education and research through collaborations with outstanding overseas universities.

Our University's program

The Education Program for Innovative Global Engineers

- Toward the development of an integrated global campus with collaboration between industries, academia, business, and government.

WISE Program

This project produces exceptional doctoral talent through a five-year integrated doctoral degree program that leverages world-class educational and research capabilities using our university's strengths and systematic collaborations with organizations in Japan and around the world.

Our University's program

Global Pro-Active Root Technology Program

总统的讯息

The University was designated as the SDG hub for Goal 9 in 2018. Since then, the University has become an academic leader to realize innovations for a sustainable society. In addition to the WISE program, we simultaneously initiated other projects such as the Super Global University. Through these initiatives, we are strengthening our research and education to lead the world in Monozukuri (manufacturing). WISE program graduates are knowledge professionals and leaders around the world. Therefore, not only the University faculty, but also corporations, universities, governments, and governmental agencies within and outside Japan are promoting the program collaboratively. We train talent who can flexibly deal with unanticipated changes and be invaluable in any situation. Our current students have an outstanding reputation in society, and I expect them to mentor newly entering students and continue to realize high achievements.

President Shigeharu Kamado
Global Pro-Active Education ... It goes beyond self-initiated active-learning. Instead, experiences are gained while learning from failure, leading teams through obstacles, and demonstrating problem-solving skills in international settings. It is extremely important to learn to overcome setbacks, rather than simply staying overseas or at a company for an extended time. Students re-learn in a subsequent stay called a “Repeat practicum” to address issues after reflecting on the initial experience.

**Study Model – Global Pro-Active Root Technology Program**

- **Fifth year**: Become a knowledge professional at the international level
- **Fourth year**: Second practicum period
- **Third year**: Complete a research project and application/practice subjects
- **Second year**: First practicum period
- **First year**: Decide on a target and chief supervision from each of three organizations, complete basic/application subjects

**Global Pro-Active Education Subjects**
- **Unique subjects**: IT practical exercise, International summer school...
- **Set the program quality guarantee**: Strategies who can pioneer new fields of various industrial and business practices, Global leaders with a wide range of visions, Developers who revitalize devastated areas around the world

**Benefits of participating in the WISE program**
- WISE participants receive considerable financial support so they can concentrate on education and research due to the additional course load beyond the curriculum in Graduate School of Engineering. This support includes:
  - Monthly stipend upon being accepted to the program
  - Overseas travel cost support (flights, accommodations, etc.)

**Global Pro-Active Education Infrastructure**

- **For the Pro-Active Education in this Program**, we set up a consortium with overseas practical education universities and research institutions, corporate research labs, and cooperative factories in collaboration with public organizations in order to provide research opportunities such as open innovation campus, creative hubs and business accelerators.

- **University Collaboration**
  - The International Engineering Practical Education Consortium
  - Initial Collaboration/Universities
  - Mutual Intensives
  - Joint Short-term School Programs
  - Plans to Reuse Educational Methods from International Perspectives
  - Guidance for International Collaborative Research

- **Infrastructure for Open Innovation Campus**
  - Infrastructure to participate as an R&D leader in undeveloped industrial fields, producing solutions in collaboration with multiple corporations
  - Joint venture support among competitors for a specific cause
  - Matching fund method
  - 10% of the entire research space in the University Development and Utilization of the Researcher Matching System

**Global Pro-Active Education**

- **SDGs Initiative at Nagaoka University of Technology**
  - SDGs are international goals set for 2016–2030 according to the 2030 Agenda for Sustainable Development adopted by the United Nations (UN) General Assembly in September 2015. They are the successor of the Millennium Development Goals (MDGs) established in 2001.
  - **Nagaoka University of Technology has been appointed as the SDG Hub for Goal 9 by the UN, and its “GGAKU SOG Institute” was certified as UNESCO Chairs Programme.**

**Sustainable Development Goals (SDGs)**

- **Member of United Nations Academic Impact**
  - [https://www.academicimpact.org/nagakou/](https://www.academicimpact.org/nagakou/)
  - A commitment to the opportunity for every interested individual to acquire the skills and knowledge necessary for the global higher education
  - A commitment to building capacity in higher education systems across the world
  - A commitment to promoting sustainability through education.