

Master's in Resources and Environment

Environmental Engineering

The full-time Master's program of Resources and Environment (Environmental Engineering) aims to cultivate high-level professionals with solid theoretical and extensive knowledge in the field of environmental engineering. Graduates will have strong abilities in solving practical problems, and are qualified for professional technical or management work.

The program has started enrolling graduate students since 2011. Among 140 graduates, we have achieved 100% employment rate, with some continuing their studies in leading universities around the world, such as Tsinghua University, Kyoto University, Queensland University and Munich University of Technology. Most graduates are employed by government departments, state-owned enterprises, scientific research institutions, as well as renowned private enterprises such as Huawei.

Research

Guided by national ecological conservation and key environmental strategic needs, the discipline is based on cutting-edge international environmental research, and aims to become a world-class environmental discipline.

Focusing on scientific knowledge and technological innovation, the discipline will cultivate environmental talents with global competence who are capable of carrying out technological innovation and environmental strategy research. Graduates will provide innovative ideas and original technologies to lead the development of the environmental protection industry and green transformation.

The Discipline conducts research at the following laboratories:

- State Environmental Protection Key Laboratory of Sources and Control of Air Pollution Complex (SCAPC), jointly established with the School of Environment
- National Environmental Protection Key Laboratory of Microorganism Application and Risk Control (MARC), jointly established with the School of Environment and the School of Life Sciences
- Guangdong Provincial Engineering Technology Research Center for Urban Water Cycle and Environmental Safety Assurance
- Shenzhen Key Laboratory of Microorganism Application and Risk Control
- Shenzhen Engineering Research Laboratory for Sludge and Food Waste Treatment and Resource Recovery
- Shenzhen Key Laboratory of Clean production
- Tsinghua-Kyoto Cooperative Research and Education Center for Environmental Technology
- Eco-industrial and Environmental Test Center and other high-level research platforms.

The discipline has achieved fruitful research results and actively participated in the development of ISO international standards. It has also undertaken a number of major National Science and Technology projects, NSFC and other national scientific research projects.

Professional Development

The duration of the full-time master's program is around 2-3 years. Qualified graduates will be awarded a master's degree in engineering from Tsinghua University.

The program includes lectures, case studies, professional practice, graduation thesis and other work. Lectures focus on developing fundamental professional knowledge and thinking skills, covering basic theories and case analysis.

Professional practice is carried out on-site or in internships. This is an opportunity for students to transform knowledge into practice and is also an integral part of students' professional development. Students' graduation thesis also has to be related to practical experience. In the whole program, students are mainly guided by an on-campus supervisor, and an off-campus supervisor will participate in the guidance of professional practice and the graduation thesis.

In addition, the program focuses on broadening students' horizons by actively cooperating with international partners. Currently, the Tsinghua-Kyoto double degree program has been set up. The program is jointly established by Tsinghua SIGS and the Graduate School of Global Environmental Science and Environmental discipline at Kyoto University.

Short-term internship programs are also offered at the Tsinghua-Kyoto Cooperative Research and Education Center for Environmental Technology (CRECET). The short-term internship exchange program provides participants a chance to visit local surroundings, environmental facilities and enterprise research institutions alongside research and academic exchange.

The program frequently invites renowned scholars and experts to conduct academic lectures, conferences and forums in environmental engineering. These activities aim to enhance communication between students and experts at home and abroad, and also broaden students' horizons.

Faculty

Our teaching team includes 9 full-time faculties and several off-campus supervisors. Our full-time faculty consists of 3 professors, 5 associate professors and 1 assistant professor. They supervise students and are responsible for curriculum-design. Off-

campus supervisors are mainly experts in related fields, who undertake the task of student tutoring and also participate in teaching, professional practice and other work.

For more information on our faculty, please visit:

<https://www.sigs.tsinghua.edu.cn/nyyhjxb2/index.jhtml>

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