2020 APPLICATION GUIDE TO TSINGHUA UNIVERSITY GRADUATE PROGRAMS FOR INTERNATIONAL STUDENTS

Tsinghua University Graduate Admissions Office
If you are planning to study in China as an international student, the following information about Tsinghua University may help you make the right choice.

**Why Tsinghua**

Over the years, the development of Tsinghua, its students and alumni have been greatly inspired by:

- the motto of “Self-discipline and Social Commitment”,
- the maxim of “Actions Speak Louder than Words”.
- the academic spirit of “Rigor, Diligence, Veracity, and Creativity”, and
- the tradition of “Patriotism, Devotion, and Pursuing Excellence”.

Tsinghua is one of the best universities in China for its high quality of teaching, research, and social service. Over the years, Tsinghua holds the large numbers of the professors who have been honored as the Chinese Academicians of Science and the Chinese Academicians of Engineering, of State Key Laboratories, of national research awards in science and technology, of research funding, of authorized patents, and of articles indexed in EI (Engineering Index), ISTP (Index to Scientific & Technical Proceedings), and SCI (Science Citation Index).

Tsinghua has also been recognized as one of the top universities in the world.

14th in the world according to Times Higher Education World Reputation Rankings 2019

16th in the world according to QS World University Rankings 2020

23rd in the world according to Times Higher Education World University Rankings 2020

**Subjects**

As a comprehensive university, Tsinghua has developed teaching and research platforms in the sciences, engineering, literature, art, history, philosophy, economics, management, law, education, and medicine. Tsinghua University holds the most advantageous subjects in science and technology among the universities in China. It has also established a series of featured subjects in the arts, humanities and social sciences.


1st in Engineering

1st in Computer Science

4th in Material Science

10th in Chemistry

The Tsinghua School of Economics and Management, praised as "the best business school of China" by Fortune, has been certificated by AACSB and EQUIS.

**Graduate Programs**

Tsinghua University has been active in promoting the internationalization of student education. As of fall 2019, more than 3,900 international students of 133 nationalities are studying at Tsinghua, of this, around 2,000 of them are graduate students comprised of 117 nationalities. In the academic year 2020-2021, Tsinghua University will offer more than 100 Master’s degree programs and 90 Doctoral programs to International Students.

Admissions are based on the applicant’s academic background and research capability.
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School of Architecture

Overview
Tsinghua School of Architecture, established in 1946 by the renowned architectural scholar Liang Sicheng, is one of the earliest architectural schools in China and has undergone development of sixty-seven years. Guided by Liang Sicheng’s “theory of physical environment” and then Wu Liangyong’s “theory of science of human settlements”, which won the State Science and Technology Top Award, Tsinghua SA has been widely recognized as an academic leader in the field of architecture in China and an institute with high worldwide reputation as well.
In its over half a century’s development, Tsinghua SA has maintained its distinct characteristics and advantages in professional training, academic research, theoretical development, design practice and international cooperation.

Highlights
- In the 2016 QS World University Rankings by subjects, Tsinghua SA achieved excellent results: ranking the eighth in architecture.
- In the 2017 national first-level discipline evaluation, Tsinghua SA once again achieved excellent results: ranking the first in architecture, urban and rural planning, and landscape architecture.
- The all-in-one academic framework of architecture, planning, landscape, and technology; the explicit educational philosophy and sound educational system.

Programs for International Students 2020
- Architecture (M)(D)
- Civil Engineering (M)(D)
- Urban and Rural Planning (M)(D)
- Landscape Architecture (M)(D)
- Master of Architecture (M)(EM)

Department of Civil Engineering

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Overview
Established in 1926, the Department of Civil Engineering is one of the most time-honored departments within Tsinghua University. As early as 1916, “Tsinghua Xuexiao” (Tsinghua College, the predecessor of Tsinghua University) began to enroll students majoring in civil engineering and sent them to U.S. universities for further study. Currently, the Department consists of six research institutes, one National Engineering Laboratory, one Key Laboratory of China’s Ministry of Education and several research centers. The graduate programs and research activities cover the fields of civil and structural engineering, transportation engineering, surveying and mapping science and technology, construction management, real estate, and other related areas.

Highlights
- Extensive expertises and prominent achievements in the fields of structural engineering, disaster prevention and mitigation, urbanization and infrastructure construction, transportation engineering, building information modeling, and construction management, among others.
- More than 30 “National Natural Science Awards”, “State Technological Innovation Awards”, and “National Science and Technology Progress Awards” recognitions received; Over 60 technical standards and codes drafted.
- 23 Honored Visiting Professors and Distinguished Visiting Professors with strong international backgrounds.
- Faculty of 87 members with excellent levels of teaching and research, providing support for graduates programs.

Programs for International Students 2020
- Civil Engineering (M)(D)
- Geodesy and Survey Engineering (M)
- Transportation Engineering (M)
- Management Science and Engineering (M)(D)
- Project Management (EM)

(M)-Master’s Programs
(D)-Doctoral Programs
(EM)-Master’s Programs in English
The Department of Hydraulic Engineering (DHE) was founded in 1952. It now comprises one state key laboratory (State Key Laboratory of Hydroscience and Engineering), and six institutes, i.e., the Institute of Hydraulic Structures Engineering, the Institute of Geotechnical Engineering, the Institute of Hydrology and Water Resources, the Institute of River Research, the Institute of Hydraulic Research, and the Institute of Project Management and Construction Engineering. DHE offers doctoral programs for applicants devoted to research and pursuit of a career in the fields of water science and engineering. The master programs aim at equipping students with solid theoretical and systematic professional knowledge and the ability to tackle issues in water science and engineering.

The DHE has been ranked TOP ten in the field of Civil & Structural Engineering according to the QS World University Rankings in 2018 (5th) and 2017 (tied 5th). With a comprehensive network of education and research facilities, the DHE is dedicated to motivating innovative and groundbreaking research. A flexible and inspiring course program is designed to help students fulfill their potentials and broaden their horizons.

Programs for International Students 2020

- Civil Engineering (M)(D)
- Hydraulic Engineering (M)(D)
- Management Science and Engineering (M)(D)
- (M)-Master’s Programs
- (D)-Doctoral Programs
- (EM)-Master’s Programs in English
- (ED)-Doctoral Programs in English

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Overview
The School of Environment (SOE) of Tsinghua University (THU) is derived from the Department of Municipal Engineering that was set up in 1928. SOE has established a scientific and comprehensive system of education, focusing on disciplines of Environmental Engineering, Environmental Science, Environmental Management, Municipal Engineering, Radioactive Protection and Environmental Ecology. SOE has been an important base for outstanding personnel training and world class scientific research, and therefore a highly reputed academic institute in China’s environmental protection field.

Programs for International Students 2020

- Environmental Science and Engineering (M)(D)
- Civil Engineering (M)(D)
- Nuclear Science and Technology (M)(D)
- Earth Resources and Environment (M)

(M)-Master’s Programs
(D)-Doctoral Programs
(EM)-Master’s Programs in English
(ED)-Doctoral Programs in English

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Overview
The School of Environment (SOE) of Tsinghua University (THU) is derived from the Department of Municipal Engineering that was set up on 1928. SOE has established a scientific and comprehensive system of education, focusing on disciplines of Environmental Engineering, Environmental Science, Environmental Management, Municipal Engineering, Radioactive Protection and Environmental Ecology. SOE has been an important base for outstanding personnel training and world class scientific research, and therefore a highly reputed academic institute in China’s environmental protection field.

Financial Aid by School/Department
Tsinghua-Hach Scholarship for Water Research
Tsinghua-Dow Sustainable Development Innovation Challenge
School of Environment Scholarship for International students

Financial Aid by School/Department
- Multi-disciplinary and individualized education suitable for students with a variety of backgrounds.
- Excellent research platform due to the closest linkage to China’s environmental issues, and plenty of research funding and resources, enabling students to access expertized academic training.
- World-class faculty with overseas experience, adequate number of high-quality curricula delivered in English, and active co-operations with reputed Universities of the world.
- Professional administrative team with extensive experience in international students teaching, providing scholarship, life support, mental care, etc.
- Reputation of Environmental discipline of Tsinghua University (Top 20 of the world) and the close linkage with industry bring students more opportunities of employment and high recognition by home countries.
- Active engagement in domestic and international commonweal activities has set up a good image of our international students to take social responsibility.
- Outstanding graduates from this international doctoral programs, one of whom has won the greatest honor of Tsinghua students, i.e. Tsinghua Top-Grade Scholarship.
Department of Mechanical Engineering

Overview
The Department of Mechanical Engineering was founded in 1932 which is one of the earliest departments of engineering in Tsinghua University. The primary missions are to reach the forefront of mechanical engineering development for science and technology and to cultivate talents in a global, multi-disciplinary environment. The department has excellent research and education facilities, including 2 state key laboratories, 3 key laboratories from Beijing government or Ministry of Education, 1 international joint laboratory, 2 national education centers, and other research and education resources. We have high quality and high level faculties, including 3 Chinese Academy of Sciences academicians and 2 Chinese Academy of Engineering academicians. The Mechanical Engineering of Tsinghua University is one of the highest level academic institutions in the world. It is ranked as 10th(2017), 11th(2018), 14th(2019), in QS World University Rankings.

Highlights
- Focusing on the international academic frontier.
- Emphasizing field of science and technology: Advanced design technology and digitalization; Manufacturing technology and material science; Surface/Interface theory and technology; Bio-fabrication science and technology; Robot technology; Intelligent control technology and modern management.
- Teaching resources: State key Laboratories; High quality teaching platform; High level supervisors; Integrated engineering education system with the joint laboratories of college and enterprise; International cooperation platform with world top level universities.
- Teaching goals: Creativity; Philosophical thinking; Engineering design experience and thinking; Cross-cultural cooperation and international vision.

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Programs for International Students 2020

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Financial Aid by School/Department
Different schemes of financial aid might be possible depending on the applicant’s background and study/research program. Details are to be discussed with the department individually.

Department of Precision Instrument

Overview
Department of Precision Instrument at Tsinghua University, derived from Department of Mechanical Engineering, School of Engineering founded in 1932, is one of the oldest engineering departments in China. There are two key disciplines in the department, Optical Engineering and Instrument Science and Technology. The department has State Key Laboratory of Precision Measurement Technology and Instruments, Key Laboratory of Intelligent Microsystems, Ministry of Education, Beijing Laboratory of Biomedical Detection Technology and Instrument, Micro and Nano Technology Research Center, Aerospace Technology Research Center and so on.

Highlights
- Devote to the in-depth and cutting-edge scientific research to provide solutions to major engineering challenges and to train innovative engineers and scientists.
- Have several inter-discipline joint centers in the university.
- Have several jointed laboratories established by the department and enterprises.

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Programs for International Students 2020

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Department of Energy and Power Engineering

Overview
The Department of Energy and Power Engineering, originally known as the Power group in the Department of Mechanical Engineering, was established in 1952 under the name of the Department of Power Systems. The Department of Mechanical Engineering had been originally established in 1932. The graduate section of the department has always focused on improving our graduates’ quality with an emphasis on moral education. The Department of Energy and Power Engineering trains students in engineering design, experimental research and engineering management in the following areas: energy research and utilization, clean combustion and energy conservation, optimization and simulation in the following areas: energy research and utilization, clean combustion and energy conservation, power systems and devices, and power engineering and control. The department currently has 98 faculty and staff members, including 40 professors and 33 associate professors.

Highlights
- Combine the international training of students and the graduate education.
- Associate the international training of students with international curriculum system construction.
- Link the international training of students to the teacher’s academic exchanges.

Programs for International Students 2020

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(M)-Master’s Programs
(D)-Doctoral Programs

School of Vehicle and Mobility

Overview
The School of Vehicle and Mobility (SVM) is derived from the Department of Automotive Engineering (DAE) which was set up in 1980. In 2019, in response to the technological changes brought about by the AECS (automation, electrification, connection, share) development trend of vehicle technology, Tsinghua University formally established the School of Vehicle and Mobility based on the former establishment of DAE. Consisting of four institutes, i.e., Institute of Vehicle Powertrain Engineering, Institute of Automotive Engineering, Institute of Intelligent Mobility, and Institute of Special Vehicles and Dynamics, SVM is a cradle for China to cultivate high-level and high-quality automotive engineering science, technology and management talents and a key base for China to conduct scientific research and technological development in vehicle-related fields. It is the only talent cultivation institution in China that owns two national key disciplines—Automotive Engineering and Power Machinery and Engineering. The school currently has 81 faculty and staff members, including 28 professors and 28 associate professors.

Highlights
- First-class faculty with international and diversified educational backgrounds and top-level academics. SVM is the home to 3 Academicians of the Chinese Academy of Engineering and Sciences, nearly 30 person-times of faculty with state-level talent titles, over 10 international visiting professors and senior visiting scholars. It has 3 Fellows of SAE International, 9 Fellows of SAE-China as well as 2 Presidents of FISITA, an honor with the greatest international influence in auto industrial and academic fields.
- Full range of teaching and research platforms. Teaching platforms include the Laboratory of Automobile Transmission and Control, Laboratory of Automobile NVH, Laboratory of New Energy Power System, Laboratory of Automotive Mechatronics, etc. These platforms can provide students with great opportunities for hands-on experimental learning. Besides, students can enter the research groups led by their supervisors. Supervisors and students (both Chinese students and international students) work together on the most advanced automotive technologies, such as energy conservation and new energy vehicle, advanced engine and turbo power systems, intelligent vehicles and intelligent transportation systems, vehicle dynamics and control, vehicle design and vehicle safety, automotive industry and system engineering, etc.
- Extensive network with industry: SVM has established cooperation channels with most of the well-known automotive enterprises both at home and abroad. Close contact with the enterprises provides students with opportunities for internships and employment after graduation.
Department of Industrial Engineering

Overview

The Department of Industrial Engineering at Tsinghua University was established in 2001. It is the No. 1 program in Industrial Engineering in China. The mission of the department is “To become a world class leader in Industrial Engineering research and education, contribute to increase gross national productivity, increase quality of life, and increase the living standard in China and the world.”

Highlights

- According to the evaluation conducted by a panel formed by members of the United States National Academy of Engineering (NAE) in 2019, our graduate program is comparable to the top 20 industrial engineering programs in the United States.
- Dr. Gavriel Salvendy, Professor of Industrial Engineering at Purdue University and Member of the United States National Academy of Engineering, was our founding department head and was named chair Professor Emeritus in 2014. More than 80% of the faculty members have study or research experience in top universities in the United States or the European Union.
- The department has adopted a new paradigm of engineering education with an emphasis on creativity and practical training through innovative teaching, and rebuilt the curriculum in accordance with the standards of top industrial engineering programs.
- The department hosts workshops annually, which build up the long-term international collaboration with top universities and Fortune 500 companies.
- The International joint program, Tsinghua-Aachen Double Master’s Degree Program, has been introduced since 2001, and the Tsinghua-Politecnico di Milano Double Master’s Degree Program was also initiated in 2017.
- A two-year, professional-orientated Master’s Program in Management Science and Engineering (previously known as the Master’s Program in Global Manufacturing) was introduced in 2009 for students with a global vision in Management Science and Engineering, with a special focus on the manufacturing industry in China.
- The department holds a series of Chinese culture related courses, as well as immersion class on Manufacturing in China, which will guide international students to learn more about China.
- The international graduate students account for more than 50% of all the full-time graduate students in the department of Industrial Engineering.

Programs for International Students 2020

- Management Science and Engineering - Global Manufacturing Program (MSE) (M)/(D)/EM
- Master of Engineering Management (EM)

Department of Electrical Engineering

Overview

The Department of Electrical Engineering at Tsinghua University was founded in 1932. After 86 years of development, it has established an excellent education and research reputation in China and internationally. 36 alumni, either previous/current faculties or graduated students, have been elected as Academicians of the Chinese Academy of Science or the Chinese Academy of Engineering. The educational and scientific activities of the Department of Electrical Engineering is mainly focused on subjects such as electrical power, including Power System and its Automation, High Voltage and Insulation Techniques, Electric Machines and Electric Apparatuses, Power Electronics and Electrical Drive, Theory and New Technology of Electrical Engineering.

Highlights


Programs for International Students 2020

- Electrical Engineering (D)
- Energy and Power Engineering (M)

(M)-Master’s Programs
(D)-Doctoral Programs
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Department of Electronic Engineering

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Overview

Started from the Telecom Division founded in 1932 in the Electrical Department of Tsinghua University, the Electronic Engineering Department (EE Dept.) was formally established in 1952. The two national key first-level disciplines, “Electronic Science and Technology” and “Information and Communication Engineering” have been constituted, which cover the fields of Physical Electronics and Optoelectronics, Circuits and Systems, Electro-Magnetic Field and Microwave Technology, Communication and Information System, Signal and Information Processing, and Complex Systems and Network.

In order to strengthen global connections between institutions of higher learning, the department launched a Joint Master Program with the department of Biomedical Engineering Johns Hopkins University (ranked as #1 Graduate Program in BME since 1992) from 2018. This program provides students with in depth knowledge of how to solve important biomedical problems through application of engineering principles, preparing them to become global leaders in biomedical research, and the translation of these research results into application. The program allows students complete a MSE degree from Johns Hopkins and a MS from Tsinghua University in two years.

Highlights

- The Department of Electronic Engineering ranked 7th in the world (QS World University Rankings)
- A style of integration between science and engineering, stress on both teaching and research, fostering a rigorous, diligent, practical, and creative mindset, as well as a culture of pursuing solidarity, pragmatism, academic liberty, and excellence

Programs for International Students 2020

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(M)-Master’s Programs
(D)-Doctoral Programs

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Department of Computer Science and Technology

Contact Website: http://ac.cs.tsinghua.edu.cn/ Email: jiaoxue@tsinghua.edu.cn Tel: +86-10-62773240

Overview

The founding of the Department of Computer Science and Technology can be tracked to over half a century ago in 1958. Since its establishment, it has become a world renowned department with strong scientific research and education accomplishments in computer disciplines. It is comprised of the institutes of high-performance computing research, computer networking, computer software, human-computer interaction and media integration, and the state key laboratory of intelligent technology and systems. The department has established joint labs with IBM, Intel, Microsoft and other major corporations.

Highlights

- Comprehensive coverage of computer disciplines
- Outstanding faculty
- Cutting-edge research works
- Strong international connections

Programs for International Students 2020

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(M)-Master’s Programs
(D)-Doctoral Programs
(EM)-Master’s Programs in English
(ED)-Doctoral Programs in English
Department of Automation

Automation science and technologies have been playing a key role in the development of science and technology in human history. Automation-related programs have been established in Tsinghua as early as the 1950s. In 1970, these related programs were merged, and the Department of Automation (DA) was formed. In the past over 40 years DA has made great achievements in teaching and research, trained over 8,000 graduates with B.S., M.S. and Ph.D. degrees, and has become an important R&D base for automation science and technologies and a cradle for high-level talents in the automation field.

Highlights

The discipline of DA is Control Science and Engineering. Two of its sub-disciplines, Control Theory and Control Engineering, and Pattern Recognition and Intelligent Systems ranked first place respectively in the National Key Disciplines Evaluations in 2001; The discipline of Control Science and Engineering took first place in National Discipline Evaluations for 2006, 2012 and 2016. At present, 7 sub-disciplines are set up under this discipline, including Control Theory and Engineering, Pattern Recognition and Intelligent Systems, Systems Engineering, Measurement and Automatic Devices, Navigation, Guidance and Control, Enterprise Information Systems and Engineering, and Bioinformatics. The graduate students are enrolled in sub-disciplines and educated with overall knowledge of the discipline.

Programs for International Students 2020

- Control Science and Engineering (M)(D)

Department of Microelectronics and Nanoelectronics

The Department of Microelectronics and Nanoelectronics was established in 2004. The Institute of Microelectronics of Tsinghua University (IMETU) was founded in 1980 on the basis of the Semiconductor Research Division, which was a research division of the Department of Electronic Engineering established in 1957. The mission of the department/institute is to educate top level professionals and deliver scientific innovations in the Micro/Nano-electronics field. During the past 30 years, IMETU has made significant contributions and key achievements for the development of China’s semiconductor and integrated circuit industry. The department/institute consists of four divisions, Solid-State Devices and Integration Technologies, IC & System Design, Micro/Nano Devices and Systems, and CAD Technology. After 30 years of development, IMETU has been China’s leading research and education base in the area of Micro Nano electronics. It has established a high-quality research infrastructure for microelectronics comprising of two major research directions, Micro/Nano electronics and IC & System Design. Meanwhile, alumni of IMETU have become the backbone of China microelectronic industry.

Highlights

- Covering a large range of disciplines in microelectronics & nanoelectronics area, including a complete line for devices and circuits design
- A leading discipline in China
- Rank near the top 30 in the world for its field
- Has a broad international cooperation from two double degrees for master students to various research projects for faculties

Programs for International Students 2020

- Electronic Science and Technology (D)
- Electronic Information (M)
- (M)-Master’s Programs
- (D)-Doctoral Programs
031
School of Aerospace Engineering

Overview
As the oldest department in its category in China, the Aerospace Engineering program in Tsinghua can be traced back to 1930s when the first research group of aerospace engineering was established in our country. The modern School of Aerospace Engineering was founded in 2004, primarily based on the Department of Engineering Mechanics and Mathematics (established in 1958). Currently, the school consists of two departments, the Department of Engineering Mechanics (4 institutes) and the Department of Aeronautical & Astronautical Engineering (5 institutes), with the addition of two technology research centers, i.e. Aerospace Technology Research Center and Space Center.

Highlights
- The mechanics discipline has risen as a first-class subject with a notable influence and important academic status at an international level. In the past five years, more than 60 national invention patents were granted, and over 1,000 SCI papers were published.
- The Aeronautical & Astronautical Engineering discipline has been actively involved in the design of "Tsinghua science satellite #1" and the large aircraft C919 program. The department has actively participated in international competitions on trajectory optimization and won 2nd in 2015. Research collaboration and academic exchanges have been fostered with many prestigious national and international universities and institutes. The 2017 ranking in QS of the relevant disciplines of Tsinghua (including Mechanical, Aerospace and Manufacturing Engineering) is No. 10.
- The specialty of engineering thermal physics was founded in 1958 and selected as a national key discipline. Since then heat transfer and combustion have become two main research fields, covering heat transfer optimization, energy efficiency systems and clean combustion in the fields of nanotechnology, energy engineering and aerospace. The institute of thermal physics has obtained ten national awards. Besides one international cooperation laboratory, the institute has also built three Key Laboratories of Beijing Government and the Ministry of Education.

Programs for International Students 2020
- Mechanics (M)(D)
- Power Engineering and Engineering Thermophysics (M)(D)
- Aeronautical and Astronautical Science and Technology (M)(D)

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Department of Engineering Physics

Overview
The Department of Engineering Physics (DEP) was founded in 1956 and has been committed to our mission to provide advanced education of science and engineering for talented students in atomic energy science and technology in China. With scientific development and social progress, the range of studies in the department has been extended to nuclear science and technology and other related areas, including medical physics and engineering, particle physics and nuclear physics, astrophysics, plasma physics, safety science and engineering. Currently, the total graduate student number is about 800. Meanwhile, DEP is home to 117 faculty members, among whom 38 have earned professorship and 68 with associate professorships.

Highlights
- DEP consists of six institutes, which are the Institute of Nuclear Technology and Application, Institute of Technical Physics, Institute of Nuclear Energy Science and Engineering Management, Institute of Safety Science and Technology, Institute of Medical Physics and Engineering, Institute of Modern Physics respectively. DEP covers three first-level disciplines, which are nuclear science and technology, physics, safety science and engineering. Nuclear science and technology is one of the most respected and dominant disciplines in Tsinghua University, which has been ranked No. 1 consecutively in the national first-level discipline evaluation four times.
- DEP works actively within the industry to conduct scientific research, explores technical innovation systems and mechanisms, and production integration. DEP also promotes teaching in relation to research. DEP’s research funding has exceeded one hundred million RMB and has received a series of major science and technology awards.

Programs for International Students 2020
- Physics (M)(D)
- Nuclear Science and Technology (M)(D)
- Safety Science and Engineering (M)(D)
- Energy and Power Engineering (EM)

(M)-Master’s Programs
(D)-Doctoral Programs
(EM)-Master’s Programs in English

Financial Aid by School/Department
There is currently a master’s project on nuclear power engineering and management, which is financially aided by the Chinese government and offers tuition fee, living stipend, on-campus accommodation, medical insurance and practice stipend and other fees.
Department of Chemical Engineering

Overview

Founded in 1946, the Department of Chemical Engineering of Tsinghua University (DCETU) has committed itself to establishing a world-class chemical engineering education program, shaping engineering science and technology through the integration of chemical engineering, biology, and materials science, and solving the technological needs of society. Based on the fine tradition of engineering education and research of Tsinghua University, the DCETU proactively works towards creating an internationally accredited engineering education program and emphasizes outcome based education. It's goal is to generate outstanding graduates who will be able to exercise leadership within the industry, academia and the government areas. The DCETU offers graduate programs in two disciplines: (1) chemical engineering and technology and (2) material science and engineering.

Highlights

- The DCETU has a high ranking reputation and is well respected by national and international employers.
- The DCETU has been ranked in the Top 20 for the last 4 years according to U.K. based QS Ranking in Chemical Engineering.
- Joint programs between Tsinghua University and Tokyo Institute of Technology, Tsinghua University and University of Melbourne.

Financial Aid by School/Department

Research assistant positions offered by supervisors

School of Materials Science and Engineering

Overview

The School of Materials Science and Engineering in Tsinghua University was founded in December, 2012, by combining the previous Department of Materials Science and Engineering and the Materials Processing division of the Department of Mechanical Engineering. The Department of Materials Science and Engineering was itself first founded in 1988 by the merger of several divisions within Tsinghua University, including the Inorganic Non-metallic Materials division from the Department of Chemistry, the Materials Physics division from the Department of Engineering Physics, and the Metallic Materials division from the Department of Mechanical Engineering.

The School hosts the State Key Laboratory of New Ceramics and Fine Processing, the Ministry of Education Key Laboratory for Advanced Materials, the Ministry of Education Key Laboratory for Advanced Materials Processing Technology, the Beijing National Center for Electron Microscopy, and the School of Materials Science and Engineering Central Laboratory.

Highlights

- The school is dedicated to the pursuit of creative, interdisciplinary, and high-impact research covering a wide range of topics, including information technology materials, biomedical materials, energy and environmental materials, non-equilibrium materials, structural ceramics, advanced metallic materials, composite materials, and nuclear materials.
- Over the past ten years, faculty within the school have received multiple awards and published more than 300 peer-reviewed SCI papers annually, ranking #1 in terms of academic output at Tsinghua University.
- The school consistently ranks #1 in national evaluation of first-level subjects. In 2018, the school was ranked among the top 10 world universities for materials science, by both the US News Ranking by Subject and the QS World University Rankings by Subject.

Financial Aid by School/Department

Merit-Based full tuition waiver and stipend provided for IMP-MSE program.
Yau Mathematical Sciences Center (YMSc)

Overview

YMSc was founded in December 2009 by its director, Professor Shing-Tung Yau, who is one of the leading mathematicians in the world with numerous prestigious honors, such as Fields Medal, Crafoord Prize, Wolf Prize, and Marcel Grossman Award. YMSc is devoted to conducting frontier research in mathematics and related sciences, promoting exchange of mathematical conceptions and achievements, and improving mathematical research and teaching in China.

Programs for International Students 2020

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(D) Doctoral Programs

Highlights

YMSc will accept applications of international students for 2020 Doctoral Program in Mathematics. This program boasts diverse and distinguished faculty, who will help students expand specialization knowledge, explore and refine original creative thoughts, foster truth-seeking spirit and self-education, and nurture PhD students to be independent researchers with confidence, bravery and broad mind in mathematics and related inter-disciplinary fields.

The training plan, curriculum design, and teaching methodologies are as advanced as those of other world-class universities. This program offers rich core specialization courses of pure mathematics, applied mathematics and computational mathematics. In addition, YMSc has designed a great variety of frontier lectures for students to carry out state-of-the-art research and communicate with faculties and visitors.

YMSc has intellectually stimulating academic atmosphere, active truth-seeking academic environment, and open academic tradition which values both teaching and learning. Tsinghua Sanya International Mathematics Forum (TSIMF), sharing the similar concept of Banff International Research Station and the Mathematical Research Institute of Oberwolfach, is a unique world-class mathematical forum in Asia built in Sanya, China, where international mathematicians and people who love mathematics come together for communication, innovation and development.

Department of Mathematical Sciences

Overview

The Department of Mathematical Sciences of Tsinghua University was founded in 1927, which has a long and impressive history. Currently, there are three research groups within the Department of Mathematical Sciences: Pure Mathematics, Applied Mathematics and Probability Statistics, and Computational Mathematics and Operational Research. The Ministry of Education founded the Yau Mathematical Sciences Center in 2015 based on the Mathematical Sciences Center of Tsinghua University.

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(D) Doctoral Programs

Highlights

The department was granted the right to award doctoral degrees in mathematics in 2000 and was granted the right in statistics in 2011. According to the QS world university rankings, mathematics major at Tsinghua University has ranked consistently high for the last 4 years. The mathematics major of Tsinghua University is also top-ranked according to many other international and domestic rankings.

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Department of Physics

**Overview**
The Department of Physics at Tsinghua University was founded in 1926 and quickly became one of the top programs in physics under the leadership of the first department chair Prof. Chi-Sun Yeh. The department was closed during the reorganization of higher education in 1952 and reopened 30 years later. Today, the research in physics at Tsinghua is conducted in the Department of Physics, Institute for Advanced Study, Institute for Interdisciplinary Information Science, Department of Engineering Physics, and Graduate School at Shenzhen. The Department of Physics ranks among the top five in the country and is making effort to become a leading research center in the world by 2035.

**Highlights**
The research areas in Tsinghua Physics include condensed matter physics, atomic, molecular and optical physics, quantum information, biophysics, elementary particle and nuclear physics. The research on topological insulator and iron-based superconductor has recently attracted new attention. In 2013, the first experimental observation of quantum anomalous Hall effect establishes Tsinghua as a leading player in condensed matter physics. The atomic, molecular and optical physics lab, carries out advanced spinor atomic condensate experiments with potential applications in quantum measurement and quantum metrology. Recently, Tsinghua Physics laboratory has achieved 13.3 dB below quantum noise, indicating that more than 910 atoms are quantum mechanically entangled in the prepared Twin-Fock state condensate. The newly proposed “orbital Feshbach Resonance” for alkali-earth atom scattering opens a new avenue for quantum simulation with alkali-earth atoms. This work was highlighted by "Physics", and confirmed by several leading cold atom experimental groups. In intermediate and high energy nuclear physics, a new isovector orientation effect was reported in deuteron induced scattering and the prediction on probing quark matter in heavy ion collisions has been confirmed by experimental collaborations at RHIC and LHC. The department also devotes to developing advanced experimental techniques, such as ultrahigh vacuum, ultralow temperature, weak signal detection, among others techniques.

**Programs for International Students 2020**
- Physics (D)
- Astrophysics (D)

(D)-Doctoral Programs

Department of Chemistry

**Overview**
Department of Chemistry was founded in 1926, comprising of the research institutes of Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Physical Chemistry, and Polymer Chemistry and Physics. The Department of Chemistry consists of a strong teaching and research team, which includes around 70 professors. The department is committed to cultivating excellent chemistry talent possessing the spirit of innovation and research ability.

**Highlights**
The department has two MOE key laboratories: Bio-organic Phosphorous Chemistry & Chemical Biology, and Organic Optoelectronics & Molecular Engineering.

- The research topics in the Department of Chemistry cover all disciplines of modern chemistry, including the pursuit of new inter- and multi-disciplinary research fields in particular. Research fields represented include new methods for life and environmental analytical chemistry, mechanisms and applications of novel enzymes, organic optoelectronic materials and devices, functional crystal materials, supramolecular self-assembly and nanostructural materials, traditional Chinese medicine, synthesis and properties of conducting polymer materials, and new catalytic materials for energy sources and environmental applications.
- In the 2018 “USNEWS Colleges Rankings and Data” and “QS World University Rankings”, the Department of Chemistry at Tsinghua was ranked 10th and 17th respectively.

**Programs for International Students 2020**
- Chemistry (D)

(D)-Doctoral Programs
School of Life Sciences

045

Overview
Life Science has a long and prosperous history at Tsinghua University. The Biology Department, founded in 1926, was among the oldest and most prestigious in China. In 1984, it was re-established as the Department of Biological Science and Biotechnology. In September 2009, in order to improve and accelerate life sciences research and education, the Department of Biological Science and Biotechnology was formally reorganized into the School of Life Sciences (SLS).

Highlights
- The direction of research focuses on the frontiers of international biological research, and these technical fields are of great importance to the development of state economics and society, including structural biology (such as disease related to protein structure), developmental biology (animal embryo development, mechanisms of signal transduction), molecular cell biology (molecular mechanisms of disease-genesis), neurobiology (neuro-development and aging), biochemistry and molecular biology (functions of genes, protein drugs), molecular biophysics, molecular immunology, bioinformatics, biomaterials, plant genetic engineering, and many other areas.
- During the 2017 Ministry of Education assessment, the School of Life Sciences was ranked A+ nationally in the Biology category.

Department of Earth System Science

046

Overview
In 2016, Tsinghua University established the Department of Earth System Science (DESS) on the basis of the Center for Earth System Science (established in 2009), to reconstruct the earth science research at Tsinghua University and conduct multidisciplinary research on global change. Department of Earth System Science has a group of talented people in the disciplines of physical climate systems, biogeochemistry, earth system observations, high performance computing, and global change economics. Currently the department has nearly 30 faculty members and more than 200 graduate students.

Highlights
- Focusing on scientific research in the following areas: art system processes, Earth system models, Earth system observations, global change economics, and global change and human health
- Aiming to develop atmospheric science, ecological science, marine science and computational earth science.
- Has the Ministry of Education Key Laboratory for Earth System Modeling.
Institute for Interdisciplinary Information Sciences

Overview

The Institute for Interdisciplinary Information Sciences (IIIS) was established in 2011. Prof. Andrew Chi-Chih Yao, Dean of the Institute, is a world-leading computer scientist, winner of the A.M. Turing Award in 2000, member of the Chinese Academy of Sciences, foreign member of the US National Academy of Sciences and the American Academy of Arts and Sciences. The Institute aims to become one of the leading research centers on interdisciplinary information sciences in the world as well as to offer a habitat for the research and education of computer science and quantum information science in China.

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M-Master’s Programs
D-Doctoral Programs

Highlights

• The IIIS Graduate Program aims to nurture top-class creative students and to achieve academic excellence competitive with the top ten computer science departments in the world. Its Academic Program, involving high-end intellectual research by faculty members and promoting the transfer of technology, has been formulated based on advanced teaching methods from MIT, Stanford and Princeton.

• IIIS Graduate Program prepares students to become interdisciplinary and independent researchers in Computer Science, Artificial Intelligence, Computational Economics, Computational Biology, Network Science, Engineering, Quantum Information, and related fields.

School of Economics and Management

Overview

The School of Economics and Management was founded in 1984. The school’s core mission “create knowledge, foster leadership, contribute to China, and influence the world” underlining its commitment to excellence in research and teaching, creating new academic knowledge and nurturing future leaders. The school is rooted in China, but focused on the world, and it keeps a leading level in China in terms of personnel training, scientific research, international exchanges, etc.; endeavoring to become a first-class school of personnel training, scientific research, international and independent researchers in Computer Science, Artificial Intelligence, Computational Economics, Computational Biology, Network Science, Engineering, Quantum Information, and related fields.

Programs for International Students 2020

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M-Master’s Programs
D-Doctoral Programs

Highlights

• Master of Finance (Discipline Name: Master of Finance)
The Master of Finance (MoF) program at the School of Economics and Management (SEM) of Tsinghua University trains top-notch financial professionals, and cultivates future financial leaders with advanced knowledge in economics and finance. Students develop a global vision for rapidly changing financial markets. The program prepares students for careers in regulation, research, investment banking, securities modeling and trading, and corporate finance.

The Master of Finance Program have participated in the Financial Times Masters in Finance Ranking since 2017. In 2018, the program ranked fifteenth globally. For employment rate, the Program ranked first globally; for Salary Today, the Program ranked third throughout the world; for both career service rank and International board rate, the Program ranked in the top 10 worldwide.

• Master of Management (Discipline Name: Business Administration)
Aimed at pre-experienced undergraduates, the Master in Management (MiM) program strives to develop students’ analytical, general management and leadership skills, preparing them for managerial and leadership positions within corporations, government and non-profit organizations. Some of the courses are taught in English. Tsinghua SEM is the only CEMS member school in mainland China. MiM students have exclusive access to the CEMS Master in International Management program and students who successfully complete the CEMS curriculum will receive a CEMS diploma. In recognition of outstanding student satisfaction with the academic quality, administration service, and student activities offered by the program, Tsinghua SEM was awarded the title of CEMS School of the Year 2017-2018. Besides CEMS, MiM students can also enroll in the Tsinghua SEM-HEC MiM Dual Degree Program.

• TCMiBA (Discipline Name: Management Science and Engineering)
TCMiBA Program: The Tsinghua–Columbia Dual Master’s Degree Program in Business Analytics (TCMiBA), implemented by Tsinghua SEM and the Fu Foundation School of Engineering and Applied Science of Columbia University, is the first dual master’s program in this field between Chinese and American universities. The program aims to develop interdisciplinary talent in the fields of management theory and cutting-edge information technology, with an emphasis on global vision and strong business analytical skills. It is also a pioneer in developing an interdisciplinary education system that integrates data science and management theory. The program focuses on big data application in management,
improving knowledge base in data analytics and modeling and enhancing management skills. This unique and forward-looking interdisciplinary approach will help nurture the future leaders of this century. Students who have successfully completed the program will receive a diploma and a master’s degree in management from Tsinghua University and a Master of Science degree from Columbia University.

TCMBA is a full-time program that usually takes 2-3 years to complete. Students admitted to the dual degree program will study at Tsinghua University in Beijing, China, for the first year, and through an expedited application process, enroll and study at Columbia University in New York, USA, for the second year.

Tsinghua University-Singapore Management University MCFO & MPacc Dual Degree Program

The School of Economics and Management of Tsinghua University cooperated with the School of Accounting of Singapore Management University establishing a joint dual-degree master’s program in accounting started in 2017. The design of the program focuses on improving the overall capacity of financial leaders, reshaping their knowledge structure of financial management, and equipping them with a comprehensive understanding of financial knowledge with an aim to develop financial management leaders with global perspective. The program is part-time and the expected length of study is 2 years. Applicants with bachelor’s degree shall have a minimum of seven years of working experience, or with master’s degree shall have a minimum of five years of working experience. The courses span across three major modules of accounting, finance, and management to comprehensively improve financial knowledge and management skills.

Global MBA (Discipline Name: Master of Business Administration)

The Tsinghua-MIT Global MBA Program is an English-taught, full-time MBA program. It was established in partnership with MIT Sloan School of Management since 1997. It is tailored for future leaders who aspire to propel their careers onto the global stage while maintaining a focus on China. The Tsinghua-MIT Global MBA Program is distinguished by its world-class learning experience, high-caliber global student body, and unrivaled access to the best resources in China. Dual degree options:

- Tsinghua MBA - MIT Master of Science in Management Studies
- Tsinghua - HEC Paris Dual MBA
- Tsinghua MBA – Columbia Master of Science in Business Analytics / Operations Research / Management Science and Engineering / Industrial Engineering

Tsinghua-INSEAD Dual Degree Executive MBA Programme

The Tsinghua-INSEAD Dual Degree EMBA Programme (also known as “TIEMBA”) is jointly launched by the School of Economics and Management, Tsinghua University and INSEAD in 2006. Combining international business education with a focus on Asia, the joint programme is designed for executives and professional managers worldwide, especially for those from the Asia Pacific region.

As a unique, modular, dual-degree program for experienced executives, the TIEMBA program seeks to offer participants the best of both institutions, one of China’s premier school of economics and management and one of the world’s top business schools. The program runs across Beijing, Singapore, Fontainebleau and Abu Dhabi, providing unparalleled multicultural perspectives and insights into some of the most dynamic regions of the world.

Financial Aid by School/Department

Up to full-tuition waiver scholarship for GMBA program.

Programs for International Students 2020

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</table>

(M)-Master’s Programs
(D)-Doctoral Programs
(EM)-Master’s Programs in English

Financial Aid by School/Department

For MID-MPP-SDG and MPA-BDG program, a limited number of quota for Chinese Government Scholarship and Beijing Government Scholarship are available. The application process is competitive and selection is based on merit. The IMPA and MIDG program are Chinese government sponsored programs which are specifically targeted at government officials from developing countries. Admitted students will be granted the Chinese Government Scholarship after approval by the Chinese Ministry of Commerce.

The IMPA-BRI program is under the “Belt and Road” Talent Development Program, which is guided by the National Development and Reform Commission (NDRC), hosted by International Cooperation Center (JCC) of the National Development and Reform Commission (NDRC) and Tanoto Foundation.

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(M)-Master’s Programs
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Overview

The School of Public Policy and Management (SPPM) of Tsinghua University was founded in 2000. As the first graduate school of public administration in China, the School’s mission is to become a world-class institution that actively engages in teaching, research, and consulting in global public affairs.

Highlights

- The school is committed to building a faculty with a global vision; all faculty members have overseas experiences of study and research.
- In 2003, the school was one of the first to obtain national Level-1 authorization and accreditation for the discipline of public administration.
- In 2013, the school was ranked number two in a national discipline appraisal, and number one in academic reputation and research. In the same year, the MPA program was accredited as the only university outside of the United States of America with NASPAA Accreditation.

Contact

Website: http://www.sppm.tsinghua.edu.cn/english
MID program: mid@tsinghua.edu.cn, +86-10-62773832
MIDG program: midg@tsinghua.edu.cn, +86-10-62797483
MPP-SDG program: sdg@tsinghua.edu.cn, +86-10-62781945
IMPA program: impa@tsinghua.edu.cn, +86-10-62795912
IMPA-BRI program: impa-bri@tsinghua.edu.cn, +86-10-62773832
MPA-EMBA Program: mpa_emba@tsinghua.edu.cn, +86-10-62787965

School of Public Policy and Management

Global MBA (Discipline Name: Master of Business Administration)

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PBC School of Finance

Overview

The PBC School of Finance, Tsinghua University’s 17th school, was founded on March 29th, 2012 as a joint academy between the University and the People’s Bank of China (PBC). The School offers Ph.D. in Finance, Master of Finance, Dual-Degree Finance MBA, Finance EMBA, Global Finance GFD, and Executive Education programs. Through these programs, it contributes to China’s pool of high-level, innovative and globally competitive financial professionals.

Highlights

Master of Finance:
- Prominent leaders and researchers with years of success in the industry guide students from the very beginning of the program, offering unique insights into Chinese financial markets, international financial practices, and the latest industry trends.
- With a focus on the Chinese and international financial systems, banking regulations, commercial banking, capital markets, and insurance markets, the curriculum is ideal for increasing students’ competencies and effectiveness in today’s job market. Courses are taught by a combination of school faculty, government policy-makers, financial institution executives, and school alumni.

Master of Business Administration
- Part-time and Post-experience
- Bilingual Teaching
- Joint World Class Faculty
- Study Trips to the US.
- Dual Degrees

EMBA:
- The Finance EMBA program, first established in 2012, adopts an educational approach that is closely aligned with the demands of China's financial reforms. Building on a wealth of educational and industrial resources, the program enjoys an unparalleled faculty composed mostly of regulatory officials and industry elite. It is one of the best EMBA programs in the Asia-Pacific region.

Contact

Master of Finance: Website: http://eng.pbcsf.tsinghua.edu.cn/index.html
Email: admissions@pbcsf.tsinghua.edu.cn  Tel: +86-10-62780555
MBA: Website: http://fmba.pbcsf.tsinghua.edu.cn
https://www.johnson.cornell.edu/Programs/Cornell-Tsinghua-MBA-FMBA
Email: fmba@pbcsf.tsinghua.edu.cn
EMBA: Website: http://emba.pbcsf.tsinghua.edu.cn
Email: emba@pbcsf.tsinghua.edu.cn
Tel: +86-10-62798555/62798630

School of Law

Overview

Tsinghua University Law School, was founded in 1929 and is considered one of the leading law schools in China. Its faculty members include some of China’s best legal scholars. Many prominent legal scholars, judges and lawyers were graduated from the Law School. It has strong study abroad and exchange programs, and its international partners include some of the best universities around the world including Harvard, Yale, Stanford and NYU. Tsinghua is the first university to offer LL.M in Chinese Law program taught fully in English for international law students.

Highlights

- A dedicated and highly distinguished faculty of more than 60 members, many of whom have foreign legal backgrounds, offers expertise in diverse legal studies, and helps prepare our students for their legal career in a dynamic world of change and complexity.
- In 2019, Tsinghua Law School ranks 33th in the QS law school rankings and is the only Chinese law school that has made it into the top 50 in 8 years.
- Among approximately 1,200 students currently enrolled, 15% are international students, with this ratio set to rise.
- It offers the first LL.M program on Chinese Law in China, and continues to attract international scholars and students with its exuberant intellectual life, creative learning environment, and profound cutting-edge scholarship.

Programs for International Students 2020

Science of Law (M)(D)
Juris Master
- LL.M. in Chinese Law
- LL.M. in International Arbitration and Dispute Settlement
- Belt and Road LL.M. in Comparative Law

(M)-Master’s Programs
(D)-Doctoral Programs
(EM)-Master’s Programs in English

Financial Aid by School/Department

Mingli Scholarship / Young ICCA Scholarship
The School of Journalism and Communication at Tsinghua University was founded in April 2002. Inheriting Tsinghua's tradition of comprehensive and interdisciplinary education, TSJC aims to give students world-class journalism and communication education guided by international standards. Every year, hundreds of graduates leave TSJC to enter top-level journalism and communication careers in and outside China. Students at TSJC are offered abundant resources to not only sharpen their professional skills, but also develop acute social responsibility crucial for their future success. At present, TSJC is one of the most prestigious J-schools national-wide and its international students body is the largest among all J-school in China. TSJC offers journalism and communication programs at undergraduate and graduate levels, it also collaborates with other prestigious schools at Tsinghua to form an interdisciplinary and integrated platform for media education and research.

### Overview

The Global Business Journalism (GBJ) Program was founded in 2007 as a partnership between Tsinghua University School of Journalism and Communication (TSJC), the International Center for Journalists (ICFJ), Bloomberg and other global media organizations. GBJ is the only English taught business journalism program in China and the leading one in Asia.

The program is full-time and spans two years of intense, fast-paced, rewarding study. The goal of program is to create a cadre of smart, sophisticated reporters, editors and public relations professionals who can enhance the understanding of economic and corporate developments in China and in the world. Those who complete the program will be granted Certificate of Master Degree & Certificate of Graduation issued by Tsinghua University as well as Certificate for Diploma of Business Journalism issued by ICFJ.

### Highlights

- Tsinghua University was one of the founding members of the discipline of the Theory of Marxism in China. It began the postgraduate program since 1987. The School of Marxism, founded in July 2008, integrates the professors from the fields of Marxism studies, ideological and political education from different departments of the University, and plays a leading educational role in these areas in China. The school has established several important research platforms, such as the Collaborative Innovation Centre on Socialist Key Values, and the Tsinghua Moral Education Research Centre, which is the key research base for humanities and social sciences under the Ministry of Education. Among the professors, there are eight Principal Investigators of Central Research and Development Project of the Theory of Marxism.

- Outstanding research capacity: the school was evaluated as A++, one of the best three among all the Chinese universities ranked by the Ministry of Education.

- Interdisciplinary atmosphere: the professors and postgraduates comes from diverse backgrounds, such as Marxist philosophy, Marxist political economy, ideological and political education, Chinese modern history, politics and sociology.

- Key to understanding China: since Marxism is the guiding ideology in China’s development and reform, the school combines the theoretical research with the reform practices in China, and provides the key theoretical perspectives for the understanding of China.

### Programs for International Students 2020

<table>
<thead>
<tr>
<th>(M)-Master’s Programs</th>
<th>(D)-Doctoral Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journalism and Communication</td>
<td>Theory of Marxism (M)(D)</td>
</tr>
<tr>
<td>Master of Journalism and Communication</td>
<td>(EM)</td>
</tr>
<tr>
<td>Global Business Journalism</td>
<td></td>
</tr>
</tbody>
</table>

Contact

Website: http://gbj.tsjc.tsinghua.edu.cn/publish/jcgbj/index.html
Email: tsjcws@tsinghua.edu.cn
Tel: +86-10-62796842

Contact

Website: http://www.smarx.tsinghua.edu.cn
Tel: +86-10-62772700
School of Humanities

Overview
The humanities of Tsinghua University have been in a pivotal in the wider academic history of the humanities in China. Notable experts such as Wang Guowei, Liang Qichao, Chen Yinque, Zhao Yuanren, Jin Yuelin and Qian Zhongshu, among others, once taught or studied at Tsinghua. The School of Humanities currently consists of the Department of Chinese Language and Literatures, the Department of Philosophy, the Department of History, the Department of the History of Science and the Department of Foreign Languages and Literatures, each with a number of distinguishing scholars in those fields.

Highlights
- The Department of Chinese Language and Literature has five main fields: Ancient Chinese Literature and Classic Chinese Philology; Modern and Contemporary Chinese Literature, Literary Theory and Comparative Literature with a global vision concerned with the present times; Linguistics and Applied Linguistics with a focus on computational linguistics and psycho-linguistics; Chinese Linguistics focusing on historical changes of both the Chinese language and its writing system; and Buddhist Philology (i.e., philological studies of Chinese, Tibetan and Indian Buddhist scriptures). Each of these fields is supported by the strength of the associated faculty members.
- The Department of Philosophy stands out with its vigorous and original young thinkers. Academic influence is seen in ethics, Chinese philosophy, western philosophy and logic.
- The Department of History excels in the following fields: study of archeological literature and ancient Chinese civilization with a focus on “Tsinghua Bamboo Slips”, social and economic history, intellectual history, historic theory, and communication history between China and the West.
- The Department of Foreign Languages and Literatures recruits MA and Ph.D. students who are majoring in English and Japanese, and who are doing research in the fields of linguistics, literatures and translation studies. In due time they will become strategic talents who are well equipped with the histories of different civilizations, participate in international dialogues and tell the stories of China, and ultimately interpret the world with profound knowledge of the humanities and multi-lingual competence.
- The Department of the History of Science aims at advancing the history of science study at Tsinghua University in five major fields: history of western science and technology, history of modern Chinese science and technology, science and technology studies (STS), philosophy of science and technology, science communication and science museum study. Professionals in the field of history of science and technology will be trained on undergraduate, master and Ph.D. levels. The department plays an active role in the liberal arts education at Tsinghua University. It devotes itself to training academic elites with interdisciplinary visions and comprehensive development potentials.

Programs for International Students 2020

<table>
<thead>
<tr>
<th>Programs for International Students 2020</th>
<th>(M)(D)</th>
<th>(EM)</th>
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</thead>
<tbody>
<tr>
<td>Philosophy</td>
<td>(M)(D)</td>
<td></td>
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<tr>
<td>Chinese Language and Literature</td>
<td>(M)(D)</td>
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</tr>
<tr>
<td>Foreign Languages and Literatures</td>
<td>(M)(D)</td>
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<tr>
<td>History of China</td>
<td>(M)(D)</td>
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<tr>
<td>History of the World</td>
<td>(M)(D)</td>
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<tr>
<td>History of Science and Technology</td>
<td>(M)(D)</td>
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<tr>
<td><em>(M)-Master’s Programs</em>(</td>
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<tr>
<td><em>(D)-Doctoral Programs</em></td>
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</tbody>
</table>
Overview

The Academy of Arts & Design, Tsinghua University, formerly known as the Central Academy of Arts & Design, was established in 1956 and merged with Tsinghua University in 1999. The Academy has a long and distinguished history, a comprehensive set of disciplines, well-resourced teaching, research and experimental facilities and enjoys an excellent reputation both at home and abroad. At present there are 10 departments and a Basic Teaching & Research Group covering 20 undergraduate programs. The Academy has the authority to confer doctoral degrees in the three arts disciplines of “Design”, “Fine Arts” and “Art Theory”. The faculty is highly qualified and includes a large number of influential artists, designers and scholars who are active leaders in domestic and foreign disciplines. Tsinghua University has been committing itself to equipping students with a solid knowledge foundation, academic excellence, good personal qualities, innovative thinking, global vision, as well as a strong sense of mission and social responsibility, helping students to achieve their full potential while also encouraging development of individuality. Bearing these goals in mind, the Academy of Arts & Design has always been working to deepen the reform of education and teaching. Through cultivating innovative artistic talent with an international mind, ambitious dreams, skills to meet the needs of the times and a strong sense of responsibility, the Academy strives to establish itself as a world-famous academy of fine arts.

Highlights

- In 2019, the Academy ranked 18th in the QS World University rankings for Arts and Design.
- Its discipline of Design was rated as A+, Fine Art and Art Theory were both rated as A- in the fourth round of academic evaluation by the Chinese Ministry of Education in 2017. Also, its Design discipline was included as one of the “first rate disciplines” in the Chinese Ministry of Education’s prestigious “Double First-rate” list in the same year.
- The Academy appeared twice as one of the world’s 60 best design institutions by “Business Week” of the United States.
- The Academy has established friendly exchange relationships with 62 well-known universities in the United States, Britain, France, Australia, Japan and other countries, and dozens of international and domestic experts and famous scholars are invited to China to teach courses every year.
- The Tsinghua Arts and Design Institute in Milan (ADIM) was officially founded on April 17th, 2018. It serves as an important hub in Europe for the art and design departments of Tsinghua University to cultivate international talent. By integrating global educational resources, ADIM will provide students with interdisciplinary, cross-regional and cross-cultural learning, researching and internship opportunities. ADIM has built excellent learning conditions and environments for cultivating innovative talents with global competence and the challenges of globalization.
Overview
The Institute of Nuclear and New Energy Technology (INET) of Tsinghua University under the Ministry of Education is a major nuclear education and research institute in China. INET focuses on nuclear research and development. It operates three test reactors and a large number of nuclear related laboratories. INET also conducts research in energy policy, new energy technologies, environment technology and advanced materials. INET puts strong emphasis on education and its postgraduate education covers master and doctoral programs in a variety of engineering and management disciplines. INET warmly welcomes international students to join the most active and renowned education and research programs of the institute.

Programs for International Students 2020

<table>
<thead>
<tr>
<th>Program</th>
<th>Level</th>
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</thead>
<tbody>
<tr>
<td>Materials Science and Engineering</td>
<td>(D)</td>
</tr>
<tr>
<td>Chemical Engineering and Technology</td>
<td>(M)(D)</td>
</tr>
<tr>
<td>Nuclear Science and Technology</td>
<td>(M)(D)</td>
</tr>
<tr>
<td>Environmental Science and Engineering</td>
<td>(M)(D)</td>
</tr>
</tbody>
</table>

Financial Aid by School/Department
Research assistantship by supervisor or laboratory

 Highlights
- INET’s Nuclear Science and Technology Program ranks No.1 in China Discipline Ranking (CDR), and also has a good international reputation.
- Main academic research disciplines include nuclear, chemical, materials, environmental as well as management engineering.
- The importance of international exchange and cooperation has been stressed. In recent years, increasing number of overseas students and scholars are applying for studies and research at INET.

Contact
Website: http://www.inet.tsinghua.edu.cn/publish/ineten/index.html Email: hyyjyk@tsinghua.edu.cn
Tel: +86-10-62771089

Institute of Education
Overview
Change education, change the world. Founded in 1979, the Tsinghua Institute of Education is committed to involving its students by sharing the perspectives of leading thinkers, researchers, and practitioners in the field of education; connecting them with cutting-edge research, best policies and practices; and providing them with an innovative pathway into the profession of education. At Tsinghua and at Tsinghua Institute of Education, you will become fully immersed in one of the world’s most dynamic and influential intellectual communities.

Highlights
- The faculty who are trained in top institutions of world-class universities is a singularly impressive group of scholars, researchers, practitioners, and policymakers who devote actively to improving education.
- The academic and professional degree programs focus on the most challenging and exciting questions in education research, policy and practice:
  - MA programs train students’ international perspectives and professional capabilities, and enhance their competence for governance and innovation.
  - Ph.D programs provide students with a wide range of leadership capabilities, as well as in-depth expertise in their research field.
- Tsinghua Institute of Education advances research-based practice to transform education and improve the world.

Programs for International Students 2020

<table>
<thead>
<tr>
<th>Program</th>
<th>Level</th>
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<tbody>
<tr>
<td>Education</td>
<td>(M)(D)(EM)</td>
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Contact
http://www.ioe.tsinghua.edu.cn/publish/ioeen/index.html
School of Medicine

Overview
Tsinghua University School of Medicine was established on October 25, 2001. Currently, the school consists of the Department of Basic Medical Sciences, the Department of Biomedical Engineering, Research Center for Public Health, School of Clinical Medicine and School of Basic Medical Sciences. The school is committed to cultivating medical scientists, senior clinicians, medical educators and senior medical management personnel who have a diverse knowledge of basic scientific theory, humanities, social sciences, natural sciences, basic medical science, clinical sciences, and strong scientific research abilities.

Programs for International Students 2020

<table>
<thead>
<tr>
<th>Program</th>
<th>(M)</th>
<th>(D)</th>
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</thead>
<tbody>
<tr>
<td>Basic Medicine</td>
<td></td>
<td>(D)</td>
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<tr>
<td>Biomedical Engineering</td>
<td>(M)</td>
<td>(D)</td>
</tr>
<tr>
<td>Clinical Medicine</td>
<td></td>
<td>(D)</td>
</tr>
<tr>
<td>Master of Medicine</td>
<td>(M)</td>
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</tr>
<tr>
<td>Master of Public Health</td>
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<td>(EM)</td>
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</tbody>
</table>

Contact
Website: http://www.med.tsinghua.edu.cn Email: fangdy@tsinghua.edu.cn Tel: +86-10-62782493

School of Pharmaceutical Sciences

Overview
The School of Pharmaceutical Sciences (SPS) of Tsinghua University was formally established on Dec. 25th, 2015, three years after its predecessor, the Department of Pharmacology and Pharmaceutical Sciences, was founded in 2012. Currently, SPS has a core faculty team of 25 Principle Investigators (PIs), all with strong educational background and track record of innovative research in leading universities and institutes around the world. The national-level examinations combined with Tsinghua University’s independent selection processes allow SPS to admit top students across China. Currently, there are 87 undergraduates, 7 master’s degree, and 167 doctoral students.

Programs for International Students 2020

<table>
<thead>
<tr>
<th>Program</th>
<th>(M)</th>
<th>(D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
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<td>(D)</td>
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</tbody>
</table>

(D)-Doctoral Programs

Contact
Website: http://www.sps.tsinghua.edu.cn Email: tsps_e@tsinghua.edu.cn Tel: +86-10-62772963

Highlights
- In addition to the traditional curriculum of pharmaceutical sciences, we promote interdisciplinary education by introducing relevant courses from other schools and departments.
- We set up the Graduate Student Steering Committee that is responsible for developing training scheme and setting academic criteria including the requirement for thesis proposal and presentation, academic seminars, and the final thesis defense etc.
- We focus on the specific skill of academic presentation by requiring graduate students to publically present their research at least once a year starting from their third-year in the program. We set up a special Student Academic Salon to facilitate an open environment for the students to learn, communicate and practice presentation skills.
- Doctoral qualification examination consists of both written and oral tests. The written test requires strong abilities in English, which is based on the interview format of National Natural Science Foundation.
- We invite both academic and industry experts to the regular Pharmaceutical Science Lecture Series where the students can develop new perspectives and gain a better understanding of the pharmaceutical industry through interactions with these speakers.
Overview

School of Software, affiliated to School of Information Science & Technology, Tsinghua University, is one of the first batch of national exemplary software colleges established with the jointly approval of the Ministry of Education (MOE) and State Development Planning Commission (SDPC) in 2001. Four institutes were established for teaching and researching in School of Software: 1. Software System and Engineering (SSE), 2. Information System and Engineering (ISE), 3. Trustworthy Network and Systems (TNS), 4. Computer Graphics, Computer-Aided Design and Visualization (CGV).

Highlights

- The School has one discipline -- software engineering and four sub-disciplines, including Software Engineering Theory, Software Engineering Technology and Management, Information Systems Engineering and Software Service Engineering. The discipline involves both the software science and engineering. Based on the fundamental laws of trustworthy measurement and evolution in the software systems, the School intends to study and address challenging and fundamental issues faced by modern software engineering, such as the software complexity, software openness, and software evolution.
- Software engineering discipline has been ranked A in the fourth round of discipline evaluation of the Ministry of Education in 2016. In 2018, the President of Tsinghua University commissioned a committee of international experts to review Software Engineering at Tsinghua (THSE) at the School of Software. School of Software impress the committee with its important role to play in the fulfillment of this objective, the importance of software and the need world-wide for software engineers to run and grow IT industries. Tsinghua University is well-positioned to deliver on this need, thanks to the existence of a strong School of Software.
- To meet the requirement of software engineering application and industrial development, the School also conducts extensive research on the methods, technologies and tools for improving the efficacy and quality of software development. The attention is paid to expand both the downward research on theoretical basis of software engineering and the upward research on the application of software services.

Programs for International Students 2020

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<thead>
<tr>
<th></th>
<th>(M)</th>
<th>(M)(D)</th>
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<tbody>
<tr>
<td>Electronic Information</td>
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<tr>
<td>Software Engineering</td>
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</table>

(M)-Master’s Programs
(D)-Doctoral Programs

Overview

Jointly established by Tsinghua University (THU) and the University of California, Berkeley (UC Berkeley) with the support of the Shenzhen Municipal Government, the Tsinghua-Berkeley Shenzhen Institute (TBSI) is committed to exploring modes of cultivating "university-government-enterprise" tripartite cooperation according to the concepts of "interdisciplinary", "internationalization" and "industrial partnership". By integrating university, government and industry resources, and training global technology leaders and future entrepreneurs, TBSI aims to solve major regional and global issues in engineering and scientific research, and cultivate high-quality talents.

Our Programs

After signing an agreement, THU and UC Berkeley launched their dual degree program in Fall of 2016. Students who meet the admissions requirements of THU and UC Berkeley have a chance to receive dual master's degrees from both THU (in Environmental Science & New Energy, Data Science & Information Technology and Precision Medicine & Healthcare) and UC Berkeley (in Engineering Leadership) within two and a half to three years.

Our Faculty

Faculty Team, Co-Advisors, Industry Advisors, External Advisory Board

Programs for International Students 2020

<table>
<thead>
<tr>
<th>Program</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Science and New Energy Technology</td>
<td>(M)</td>
</tr>
<tr>
<td>Data Science and Information Technology</td>
<td>(M)</td>
</tr>
<tr>
<td>Precision Medicine and Healthcare</td>
<td>(M)</td>
</tr>
</tbody>
</table>

(M)-Master’s Programs
(ED)-Doctoral Programs in English
Global Innovation eXchange Institute, Tsinghua University

Overview

The Global Innovation eXchange (GIX) is a new model of experiential education and practice to develop leaders in innovation. Starting with our project and team-based graduate degree programs, GIX will grow to include a broad array of innovation experiences for students, executives, and working professionals. With founding partners Tsinghua University, University of Washington and Microsoft, GIX is a global collaboration between leading academic and cross-sector partners.

Exponential growth in connected devices is expected over the next decade, resulting in tremendous social and economic value as the Internet of Things, Ubiquitous Computing, Wearable Computing, and Smart Devices become dramatically more cost effective, simpler to develop, and increasingly mainstream. Connected devices are expected to advance diverse fields ranging from health care, to natural resource management. To invent new applications and develop the expanding connected device market, leaders are required to be knowledgeable about a vast of technology, understand prototyping and design and have entrepreneurial skills. We address global challenges by interdisciplinary project oriented education. We train students on how to integrate resources and leverage the innovation ecosystem to change the world.

Connected Devices is a new dual master’s degree program offered by GIX. Students must achieve the degree requirements of both universities. Since its establishment, the GIX has welcomed the first three cohorts of 52 students from 12 countries. Starting in the fall 2020, prospective students with innovation consciousness, vision and a sense of responsibility and mission start their study in Seattle.

Programs for International Students 2020

- Data Science and Information Technology
- Connected Devices

(M)-Master’s Programs

- Connected Devices (M)
- Computing, Wearable Computing, and Smart Devices
- Data Science and Information Technology
- Engineering (Data Science and Information Technology)

For detailed information, please refer to www.sigs.tsinghua.edu.cn

Program Highlights

- Global Challenges: Tackle real world challenges in connected devices, mobile health, smart cities, sustainable development, and the Internet of Things.
- Interdisciplinary Project-oriented: Unite students with faculty, professionals, industry leaders, and entrepreneurs from a variety of disciplines.
- Resource Integration: Collaborate, innovate and create as you’re surrounded by both the rigor of a university and the entrepreneurial encouragement of real-world know-how.
- Innovation Ecosystem: Strengthen ties between neighbors across the Pacific, and among global innovators.

Key Facts

- Earn two master degrees — Master of Science in Engineering (Data Science and Information Technology) from Tsinghua University and Master of Science in Technology Innovation from University of Washington.
- LOCATION: Spend the first fifteen months of your Dual Degree at the GIX Steve Ballmer Building in the greater Seattle area, and the rest at Tsinghua University in Beijing, China.
- DEADLINE: Application reviews begin in February, and the program starts at the end of September in Bellevue WA.
- FORMAT: The Dual Degree is an intensive, full-time, project- and team-based graduate program.
Application Guide to Tsinghua University Graduate Programs for International Students (2020)

HOW TO APPLY

Contact Graduate Admissions Office, Tsinghua University, Beijing 100084, P. R. China  Tel: +86-10-62781380
Email: grad@tsinghua.edu.cn  Website: http://gradadmission.tsinghua.edu.cn
THU Website: www.tsinghua.edu.cn

Qualification of Applicants

- Applicants must be non-Chinese citizens with a valid passport.
- A Master’s Degree program applicant should have a Bachelor’s Degree or an equivalent degree to a Bachelor’s Degree (or above) in China. A Doctoral Degree program applicant should have a Master’s Degree or an equivalent degree to a Master’s Degree (or above) in China.
- Bachelor degree holders may apply for some specific doctoral degree programs to pursue doctoral degrees. For relevant information and application requirements, please refer to the “Catalog of Graduate Programs 2020”.
- Applicants should be in good health and of good character, be well behaved and be willing to abide by China’s laws, regulations as well as Tsinghua’s rules.
- Language skills requirements:
  - (a) For programs offered in Chinese: See the Notes of “Catalog of Graduate Programs 2020”
  - (b) For programs offered in English: See the target programs’ specific requirements.
  Note: Please be sure to review any additional requirements that may be required for the target department.

Application Documents

Please upload all the listed documents below to the application system:
- Personal statement. Doctoral degree program applicants also need to submit a brief introduction of research experience.
- Degree certificate. Master’s degree program applicant should submit a bachelor’s degree certificate. Doctoral degree program applicant should submit both master’s and bachelor’s degree certificates. (*Some specific doctoral degree programs just require applicants to submit the bachelor degree certificate or above.)
- Academic transcript. Master’s degree program applicant should submit an academic transcript of undergraduate study. Doctoral degree program applicant should submit academic transcripts of both graduate and undergraduate studies. (*Some specific doctoral degree programs’ applicants should submit the academic transcripts of undergraduate study or above.)
- HSK certificate and score report for programs offered in Chinese (unless this requirement is waived by the department).
- Two online academic recommendation letters from scholars who have the title of associate professor or higher, or senior professionals in a related academic field. Please follow system instructions for submission of online recommendation letters.
- Passport personal information page (personal and ordinary passport).
  Note: Use the online application to apply. The online application offers tools for collecting and submitting some, but not all, of the documents and information required for application. Departments may require additional information, so please check their individual admissions pages as well as the remarks below.

Application Procedure

Applicants should complete the Online Application on the website of the THU Graduate Programs Application System for International Students (http://gradadmission.tsinghua.edu.cn) during the designated THU application period. (Exceptions: applicants for Schwarzman Scholars, MBA, GMBA and FMBA programs please apply on the specified websites). Applicants should fill in the application information online, upload the application documents listed below to the Online Application System, and pay the application fee online at the time of submission.

Application Remarks

- Applicants are required to submit scanned images of all required documents at the time of application. All uploaded documents should be in Chinese or in English; otherwise notarial translations in Chinese or English are required. Once translated, the original documents and certified translations are to be submitted together to the application system.
- Please scan the original or notarial application documents in color using a scanner. Documents images captured by mobile phone or camera are not acceptable. Copies are also not acceptable.
- Application fee must be paid at time of application submission. (It cannot be covered by the Chinese Government Scholarship.)THU is not responsible for errors made by applicants during the application process. There are no application-fee refunds.
- Applications with incomplete documents or without application fee payment will not be processed. THU has the right to request the applicants to provide the original or notarial hardcopies of application documents for further qualification check if uploaded documents are not sufficient. Applicants shall guarantee all the information and application documents submitted in this application are authentic and accurate, otherwise, the admission will be disqualified.
- As some countries’ higher education system is very different from the Chinese one, applicants from different education system please see the online application website for reference.
- None of the above application documents will be returned.
- More detailed remarks, please be subject to the "Admission to Graduate Programs of Tsinghua University 2020’ & ‘Catalog of Graduate Programs 2020’.

Application Schedule

Graduate Programs offered in Chinese:

<table>
<thead>
<tr>
<th>Application</th>
<th>1st Round</th>
<th>2nd Round</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deadline</td>
<td>Dec. 15, 2019</td>
<td>Mar. 1, 2020</td>
</tr>
</tbody>
</table>

Graduate programs offered in English: consult individual programs for the application schedule.

Evaluation and Admission

THU enrolls students by document evaluation together with matriculation examination. The admission committee of the applicable department/school will review the application documents and select applicants for further examination. The examination will be made by one of the following methods:
- (1)Interview Exemption; (2)Personal Interview; (3)Interview plus written test. If an interview is required for admission, the department/school will contact the applicant directly to set up an interview appointment; and provide information about the interview process.
- Admission to the graduate program is determined at the department/school level with oversight by Tsinghua University according to the result of document review, result of interview, and other factors. Certificate of Admission will be issued by THU Graduate Admission Office after the final admission result is released. Prior to this, applicants may check admission status via the THU Graduate Programs Application System for International Students.
Tsinghua University mainly offers two kinds of scholarships to incoming full-time international graduate students: Chinese Government Scholarship and Tuition Scholarships. Tuition Scholarships include Beijing Government Scholarship (for full-time master’s program students) and Tsinghua University Scholarship (for full-time doctoral program students).

- Chinese Government Scholarship is open to full-time graduate program applicants. The Full Chinese Government Scholarship covers tuition fees, living allowance, on-campus accommodation, and comprehensive medical insurance.
- Tuition Scholarships cover full or partial tuition fee support with a duration of one academic year and could be applied year by year.

Prospective applicants could consult the target school or department for more information about scholarship issues. Please visit http://gradadmission.tsinghua.edu.cn for the contact information.

- Qualified applicants are encouraged to apply for the Chinese Government Scholarship (CGS) through recommendation by Chinese Embassies or Consulates or relevant organizations in applicants’ home countries between November and April (deadlines vary by country). Applicants are recommended to identify their respective countries’ application deadlines well in advance. A certificate of conditional acceptance should be obtained from the THU Graduate Admission Office beforehand if necessary. Admission documents of Chinese Government Scholarship holders will be issued by recommending scholarship organizations.

- Qualified applicants may also apply for the Chinese Government Scholarship (CGS) with recommendation from Tsinghua University. But the number of the recommended applicants is very limited, and successful applicants are generally of remarkable merit.

Meanwhile, a few of schools/departments will also offer the financial aid to international students, please contact the applicable school/department for more information.