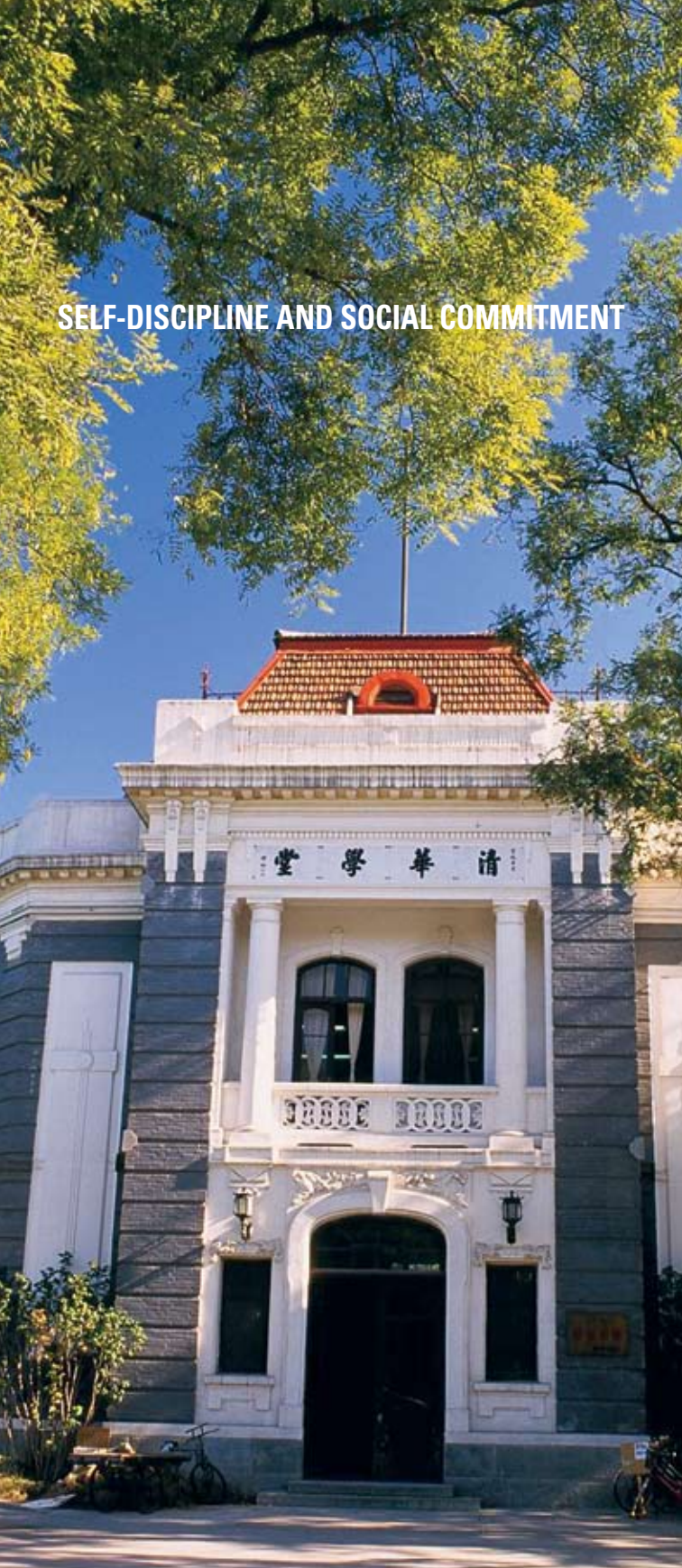
TSINGHUA UNIVERSITY

Tsinghua Facts 2009



SELF-DISCIPLINE AND SOCIAL COMMITMENT

Basic Tsinghua Facts

Schools	**14**
Departments	**56**
Undergraduate Programs	**62**
Second Bachelor's Degree Programs	**4**
National Key Disciplines*	
First Category National Key Disciplines	22
Second Category National Key Disciplines	15
First Category Graduate Disciplines*	**38**
Doctoral Programs*	**214**
Masters Programs*	**230**
Postdoctoral Stations	**34**
Total Faculty and Staff	**7,062**
Professors and Researchers	1,232
Associate Professors and Researchers	1,727
Teaching Faculty	2,829
Members of the Chinese Academy of Sciences	**36**
Members of the Chinese Academy of Engineering	**32**
Ph.D Supervisors	**1,070**
Postdoctoral Researchers	**1,061**
Total Number of Students*	**35,369**
Undergraduate Students	**14,285**
(International Students)	886
Masters Students	**14,090**
(International Students)	754
Doctoral Students	**6,994**
(International Students)	125
Laboratories	
National Laboratory (in the planning stages)	1
State Key Laboratories*	15
Ministry of Education Key Laboratories*	17
Ministry of Science and Technology Key Laboratory	1
Ministry of Health Key Laboratories*	7
Beijing Key Laboratories	5
Total Area of the University	**384.2 Hectares**
Construction Area of the University	**1.957 million square meters**

(The data reflected in The Handbook was collected through December 31, 2008)

* The data includes Peking Union Medical College, Tsinghua University.

The President's Address

With its rich legacy and rapid recent development, Tsinghua University now boasts a 98-year history of excellence. Tsinghua's progress throughout its history has been closely linked with that of our country. We are keenly aware of the high expectations and trust placed in us by our nation and people. We will continue to strive to build a world class university and to contribute to the development of a prosperous China and a harmonious world.

In 2008, China celebrated the thirty year anniversary of reforms and the opening-up. 2008 also marked the tenth year since China began its quest to build world-class universities. China has made a historic leap and great achievements in its reform and development of education, especially in the last ten years. With the rapid development of higher education in China and with the country's preferential support, Tsinghua has also made great progress in disciplines development, talent cultivation, research, faculty recruitment, overseas cooperation, and social services. In the past year, the third phase of Tsinghua's 211 Project was launched; and we finished the feasibility research study for the third phase of the 985 Project. Ten courses at Tsinghua were evaluated as national elite courses and two as national bilingual demonstration courses. Nine Ph.D papers were evaluated as Outstanding Ph.D Papers of the Nation. Overall, the total number of Tsinghua's elite courses and outstanding Ph.D papers rank first among China's universities. And the High Temperature Gas-Cooled Reactor Nuclear Power Station Demonstration Project hosted by Tsinghua was formally started. Great breakthroughs were also made in research and the commercial application of the next generation Internet. Meanwhile, Tsinghua increased the size of its scientific fund and made new progress in high level talent cultivation, senior faculty recruitment, and overseas cooperation and exchange. Foreign students from more than 100 countries now come to study at Tsinghua.

Through the efforts of our students, faculty and staff, and with the help of all the many friends who support us, Tsinghua University has made significant advances in its work and added new achievements in the past year. Tsinghua's motto "Self-discipline and Social Commitment", the Tsinghua students' academic spirit of "Rigor, Diligence, Veracity, and Creativity", and the Tsinghua faculty's tradition of rigorous teaching and research are admired nationwide.

I would like to thank all the faculty, students and staff for their contributions to the achievements we have made. Looking to the future, we must not forget the responsibilities we shoulder. Let's keep foremost in our minds Tsinghua's motto of "Self-Discipline and Social Commitment". We must work harder and dedicate ourselves to the goal of making Tsinghua a world-class university. We can create new achievements to give Tsinghua a great gift for its 100th anniversary in 2011 and contribute to the development of our Chinese nation and the world.

President of Tsinghua University
Member of the Chinese Academy of Sciences

Contents

Introduction

Founded in 1911, Tsinghua University--one of China's most famous universities--is situated in a former Qing Dynasty imperial garden surrounded by many historical sites in northwest Beijing. Tsinghua's evolution over the past 98 years has been closely linked to China's development. Tsinghua University today subscribes to the education ideal of comprehensive mastery of Chinese and foreign, classic and modern knowledge in the sciences and the humanities. This ideal is inspired by the mottos "Self-discipline and Social Commitment," "Rigor, Diligence, Veracity, and Creativity," "Actions Speak Louder Than Words," and its core spirit "Patriotism, Devotion and Pursuing Excellence".

Tsinghua University has produced more than 160,000 graduates, many of whom have become distinguished scholars and leaders in all walks of life. They have contributed significantly to China's economic, social, cultural, educational and scientific development.

Tsinghua is an important center in China for nurturing talented students and promoting advanced scientific research. A comprehensive, research-oriented, and open university, Tsinghua has developed an integrated education platform in science, engineering, the humanities, and medicine.

Taking talent cultivation as its basic task, Tsinghua University has an accomplished faculty, a comprehensive program of interdisciplinary studies, a conducive environment for teaching and research, and a broad range of cultural activities. All of these advantages provide its students a pleasant environment for their all-round development. Aiming at nurturing talented students with innovative spirit, Tsinghua has developed a complete system for undergraduate and postgraduate education and provides many off-campus high level training programs.

Tsinghua University is dedicated to the idea that scientific research should meet the strategic demands of the nation. The University is also committed to keeping its scientific research on the cutting edge of world scientific developments. It promotes both basic and applied research and has made significant achievements through independent innovation. The University stresses social service, the promotion of technology transfer, and economic aid for the development of provinces and regions throughout China.

One of the earliest Chinese universities to invite foreign teachers, Tsinghua University in recent years has established sound relations with many world-famous universities. More and more overseas scholars and students come to study and work at Tsinghua and many important international meetings are held here. The University also welcomes a number of renowned figures from various countries, including state and international organization heads, university presidents, Nobel Prize winners, and CEOs of multinational corporations.

In the new century, Tsinghua University will draw on its heritage of excellence and make full use of its comprehensive advantages to mold itself into a world-class university and contribute further to China's modernization and prosperity.

History

Tsinghua University was instituted in 1911 as Tsinghua Xuetang, a government sponsored prep school for training students selected to study in the United States. The university section was founded in 1925 when undergraduate students were first enrolled. The name National Tsinghua University was adopted in 1928.

The Resistance War against the Japanese Invasion in 1937 shattered the serenity of the campus and forced Tsinghua to move to Kunming. There, with Peking University and Nankai University, it formed the Southwest Associated University. In 1946, Tsinghua moved back to its original Peking location. At that time, the University had 26 departments under its five faculties of arts, law, science, engineering, and agricultural science.

As part of the nationwide higher education restructuring in 1952, Tsinghua University became a polytechnic institution focused on engineering. It became known as China's "cradle of engineers" due to the success of its faculty and students.

Tsinghua University has flourished since 1978 with the resumption of departments in science, economics, humanities and social sciences, and law. In 1999, the former Central Academy of Arts and Design of China joined Tsinghua University. The Peking Union Medical College was renamed Peking Union Medical College, Tsinghua University in 2006. It operates under the co-lead of the Ministry of Education and Ministry of Health. The School of Marxism was established in 2008. Tsinghua is rapidly developing into a comprehensive research university with faculties in science, engineering, the humanities and social sciences, the arts, management, law, education, and medicine.

Organizational Structure

Tsinghua University is a public institute of higher education under the direct supervision of the Ministry of Education (MOE). The University Council is a consulting and deliberative body.

Administration

President	Gu Binglin
Vice Presidents	Chen Jining, Kang Kejun, Wang Jinsong, Zhang Fengchang, Xie Weihe, Chen Xu, Yuan Si
Chairman of the University Council	Chen Xi (Until March of 2009) Hu Heping (From March of 2009)
Honorary Chairman of the University Council	Wang Dazhong
Vice Chairpersons of the University Council	He Jiankun Zhuang Lijun Wang Mingzhi Zhang Zaixing Guan Zhicheng Zheng Yankang Hu Dongcheng Sun Daoxiang Cen Zhangzhi Han Jingyang Cheng Jianping Shi Zongkai Rong Yonglin Feng Guanping
Chairman of the Academic Affairs Committee	Qian Yi
Chairman of the Degree Conferral Committee	Gu Binglin

Schools and Departments

- **School of Architecture**

Department of Architecture
Department of Urban Planning & Design
Department of Building Science
Department of Landscape Architecture

- **School of Civil Engineering**

Department of Civil Engineering
Department of Hydraulic Engineering
Department of Construction Management

- **School of Mechanical Engineering**

Department of Mechanical Engineering
Department of Precision Instruments and Mechanology
Department of Thermal Engineering
Department of Automotive Engineering
Department of Industrial Engineering

- **School of Aerospace**

Department of Engineering Mechanics
Department of Aeronautics & Astronautics Engineering

- **School of Information Science and Technology**

Department of Electronic Engineering
Department of Computer Science and Technology
Department of Automation
Institute of Microelectronics
Department of Microelectronics and Nanoelectronics
School of Software

- **Department of Environmental Science and Engineering**
- **Department of Electrical Engineering**
- **Department of Engineering Physics**
- **Department of Chemical Engineering**
- **Department of Materials Science and Engineering**

- **School of Sciences**

Department of Mathematical Sciences
Department of Physics
Department of Chemistry
Department of Biological Sciences and Biotechnology

- **School of Marxism**

- **School of Humanities and Social Sciences**

Department of Philosophy
Department of Chinese Language and Literature
Department of Foreign Languages
Department of History
Department of Sociology
Department of Political Science
Department of International Relations
Department of Psychology

- **School of Economics and Management**

Department of Accounting
Department of Business Strategy and Policy
Department of Economics
Department of Finance
Department of Human Resources and Organizational Behavior
Department of Innovation and Entrepreneurship
Department of Management Science and Engineering
Department of Marketing

- **School of Public Policy and Management**
- **School of Law**
- **Academy of Arts and Design**

Department of Art History
Department of Industrial Design
Department of Environmental Art Design
Department of Ceramic Design
Department of Visual Communication Design
Department of Textile and Fashion Design
Department of Information Art & Design
Department of Art and Crafts
Department of Painting
Department of Sculpture

- **School of Medicine**

Department of Medical Science
Department of Pharmaceutical Science
Department of Biomedical Engineering

- **School of Journalism and Communication**
- **Institute of Nuclear and New Energy Technology**
- **Teaching and Research Division of Physical Culture**
- **Art Center of Tsinghua University**
- **Graduate School at Shenzhen**
- **School of Continuing Education**

Faculty

Throughout its history Tsinghua University has nurtured and attracted outstanding experts and scholars. In recent years, the University has followed a policy of hiring accomplished scholars from outside and cultivating talented people from its own ranks. It has also created opportunities to help broaden the capabilities of young teachers. In order to maintain a high-level faculty, Tsinghua has recruited distinguished professionals as required to meet its mandate from throughout the country and around the world.

At present Tsinghua has 2,829 teaching faculty, among whom 1,172 are full professors and 1,125 are associate professors. There are 1,848 faculty under the age of 45, accounting for 65 percent of the total. Tsinghua has one Nobel Prize winner, one Turing Award winner, 36 members of the Chinese Academy of Sciences, and 32 members of the Chinese Academy of Engineering. Eleven professors have been honored as Renowned Teachers of the Nation.

Measures have been taken by the University to upgrade the faculty structure and improve teaching quality. These include the establishment of the Award for New Academics, the Award for Teaching Excellence by Young Teachers, the Leading Faculty Recruitment Program, and the Key Members of Support Program. Over the past few years, 122 young teachers have received funding awards in recognition of their nationwide achievements. Also, under the MOE's Cheung Kong Scholars Award Plan, 73 young teachers have been specially appointed and 37 scholars selected as lecturers. Forty-seven have received New Century Outstanding Scholars Fund awards, and 18 have been granted MOE awards for excellence.

• **Chair Professors**

In 2001, Tsinghua set up the Tsinghua Chair Professorship Fund. The Fund is used to invite world-famous scholars and Chair Professor Groups to teach, to do research, and to supervise graduate students at Tsinghua. By the end of 2008, Tsinghua had a total of 23 Chair Professor Groups.

• **Leading Faculty Recruitment Program**

In August 1998, the University launched the Leading Faculty Recruitment Program designed to support about 100 outstanding people in academic fields to become leading figures in their disciplines at Tsinghua. To date, 121 faculty members have been selected.

• **Senior Visiting Scholar Program**

A senior visiting scholar system was established in August 1998, and a special fund for these top academics was also set up to attract distinguished people in various fields to Tsinghua. The program presently has 308 participants.

• **Awards for New Academics and Teaching Excellence by Young Teachers**

In 1995, the Award for New Academics in Tsinghua University was established to subsidize exceptional young professors who have made remarkable achievements in teaching and research. So far, 135 young professors have received the award. In 1996, the Award for Teaching Excellence by Young Teachers in Tsinghua University was set up. A total of 158 awards thus far have been granted.

Renowned Teachers of the Nation

Chen Xinyi	Department of Physics
Fan Qinshan	School of Aerospace
Fu Shuigen	The Fundamental Industrial Training Center of Tsinghua University
Hao Jiming	Department of Environmental Science and Engineering
Hua Chengying	Department of Automation
Li Yanzu	Academy of Arts and Design
Liu Guanzhong	Academy of Arts and Design
Qian Yi	Department of Environmental Science and Engineering
Shen Yongsheng	Department of Precision Instruments and Mechanology
Wu Qingyu	Department of Biological Science and Biotechnology
Yuan Si	Department of Civil Engineering

Members of the Chinese Academy of Sciences

Name	Department	Major Research Field
Chen Nanxian	Department of Physics	Condensed state physics
Fan Shoushan	Department of Physics	Material physics and chemistry
Fei Weiyang	Department of Chemical Engineering	Chemical engineering
Gu Binglin	Department of Physics	Condensed state physics and computational materials science
Guo Zengyuan	School of Aerospace	Engineering thermophysics
Huang Kezhi	School of Aerospace	Solid mechanics
Kuang Yuping	Department of Physics	Theoretical physics
Li Jiaming	Department of Physics	Modern applied physics in atomic and molecular sciences
Li Tibei	Department of Physics	High energy physics, astrophysics
Li Yanda	Department of Automation	Signal processing and intelligent control
Li Zhijian	Institute of Microelectronics	Semiconductors and microelectronics
Chia-chiao Lin	Institute for Advanced Study	Fluid mechanics, applied mathematics, and astrophysics
Liu Baixin	Department of Materials Science and Engineering	Materials physics and chemistry
Lu Qiang	Department of Electrical Engineering and Applied Electronic Technology	Optimal control of power systems
Meng Anming	Department of Biological Sciences and Biotechnology	Developmental Biology
Pan Jiluan	Department of Mechanical Engineering	Welding engineering
Rao Zihe	School of Medicine	Molecular biophysics and structural biology
Wang Buxuan	Department of Thermal Engineering	Thermal science and engineering
Wang Chongyu	Department of Physics	Materials science and electron structure
Wang Dazhong	Institute of Nuclear and New Energy Technology	Nuclear engineering and nuclear security
Wang Jiading	Department of Chemical Engineering	Chemical engineering and nuclear chemical engineering
Wang Zhixin	Department of Biological Science and Biotechnology	Biochemistry and biophysics
Wen Shizhu	Department of Precision Instruments and Mechanology	Mechanical engineering
Wu Liangyong	School of Architecture	Architecture and urban planning
Xue Qikun	Department of Physics	Condensed state physics, materials physics, and nano-science
C.N.Yang Nobel Prize Winner (1957)	Institute for Advanced Study	Particle physics, statistical mechanics, and condensed state physics
Yang Wei	School of Aerospace	Solid mechanics and failure mechanics

Andrew Chi-chih Yao	Institute for Advanced Study	Theoretical computer science Turing Award Winner (2000)
Zhang Bo	Department of Computer Science and Technology	Computer applications
Zhang Chuhan	Department of Hydraulic and Hydropower Engineering	Structure of water conservancy works and antiseismic capacity
Zhang Guangdou	Department of Hydraulic and Hydropower Engineering	Water resources and hydroelectric engineering
Zhang Xi	Department of Chemistry	Polymer chemistry and physics
Zhao Yufen	Department of Chemistry	Organic phosphorus chemistry and bio-organic chemistry
Zhou Bingkun	Department of Electrical Engineering	Laser and optoelectronics
Zhu Bangfen	Department of Physics	Condensed state physics
Zhu Jing	Department of Materials Science and Engineering	Material microstructure

Members of the Chinese Academy of Engineering

Name	Department	Major Research Field
An Jigang	Institute of Nuclear and New Energy Technology	Applied nuclear technology
Chen Bingzhen	Department of Chemical Engineering	Process systems engineering
Chen Zhaoyuan	Department of Civil Engineering	Civil engineering
Fan Weicheng	Department of Engineering Physics	Safety science and engineering
Gu Xiasheng	Department of Environmental Science and Engineering	Water treatment
Guan Zhaoye	School of Architecture	Architectural design and theory
Han Yingduo	Department of Electrical Engineering and Applied Electronic Technology	Electric power systems and their automation
Hao Jiming	Department of Environmental Science and Engineering	Air pollution and its control
Jiang Hongde	Department of Thermal Engineering	Turbomachinery and power engineering

Jiang Yi	School of Architecture	Artificial environment engineering
Jin Guofan	Department of Precision Instruments and Mechanology	Optical engineering
Jin Yong	Department of Chemical Engineering	Chemical reaction and fluidization
Lei Zhidong	Department of Hydraulic Engineering	Water Resources
Li Daozeng	School of Architecture	Method and theory of architectural design
Li Hengde	Department of Materials Science and Engineering	Nuclear material and metal physics
Li Longtu	Department of Materials Science and Engineering	Functional ceramics
Li Sanli	Department of Computer Science and Technology	High performance computing and grid technology
Li Zhuofen	Department of Hydraulic Engineering	Geotechnical and geological engineering
Liu Baicheng	Department of Mechanical Engineering	Casting technology and equipment
Long Yuqiu	Department of Civil Engineering	Civil engineering and structural mechanics
Ni Weidou	Department of Thermal Engineering	Energy generation engineering and thermophysics engineering
Qian Yi	Department of Environmental Science and Engineering	Water pollution prevention systems
Shen Dezhong	Department of Chemistry	Growth, exploration and application of inorganic and nonmetallic crystals
Sun Jiaguang	School of Software	Software application
Wang Sijing	Department of Hydraulic Engineering	Environmental engineering and rock mechanics
Wang Yuming	Department of Precision Instruments and Mechanology	Fluid sealing
Wu Cheng	Department of Automation	Automation
Wu Liangyong	School of Architecture	Architecture and urban planning
Wu Youshou	Department of Electronic Engineering	Signal processing, information processing communication, and electronic systems
Xu Xuchang	Department of Thermal Engineering	Thermal engineering
Zhang Guangdou	Department of Hydraulic Engineering	Hydraulic and hydropower engineering
Zhu Yongjun	Institute of Nuclear and New Energy Technology	Treatment of used nuclear fuel

Education

Tsinghua University has built on its long-standing excellence in a comprehensive range of disciplines in science, engineering, the humanities and social sciences, the arts, management, law, education, and medicine.

Tsinghua University offers 62 undergraduate programs. The University offers 38 doctoral and masters programs recognized by the government in the first category of disciplines. In the second category of disciplines, the University has 214 doctoral programs and 230 masters programs.

For the first time China has established First Category Key Disciplines. According to the Ministry of Education, 22 Tsinghua University disciplines were evaluated as First Category National Key Disciplines, ranking first nationwide. Fifteen Tsinghua disciplines were evaluated as Second Category National Key Disciplines.

First Category National Key Disciplines (22)

- Mathematics
- Physics
- Biology
- Mechanics
- Mechanical Engineering
- Optical Engineering
- Materials Science and Engineering
- Power Engineering and Engineering Thermophysics
- Electrical Engineering
- Electronic Science and Technology
- Information and Communication Engineering
- Control Science and Engineering
- Computer Science and Technology
- Architecture
- Civil Engineering
- Hydraulic Engineering
- Chemical Engineering and Technology
- Nuclear Science and Technology
- Biomedical Engineering
- Management Science and Engineering
- Business Administration
- Pharmaceutical Science

Undergraduate Programs

To be eligible for admission to undergraduate programs, an applicant must complete a 12-year course of elementary and secondary education. Admission for the vast majority of students is based on the results of China's National College Entrance Examination. In recent years, more than 70 percent of the top-ten applicants for engineering and science disciplines from all Chinese provinces have been enrolled at Tsinghua University. A number of outstanding high school graduates are directly enrolled through recommendations and interviews.

The undergraduate programs are the basis for fostering high-quality, versatile, and outstanding professionals and offer a general professional education. Instruction is research-oriented, and students are encouraged to be innovative and undertake research. The undergraduate program focuses on the development of a student's social practice, research and learning abilities, creativity, and overall quality.

Since 2002, a number of new students have been enrolled in general education programs. Among these programs are studies in economics and management, science, information and technology, painting, the humanities, mechanics, aeronautics and astronautics. Generally, in their first two years, students are required to finish their general academic and professional courses; as juniors or seniors, students declare and pursue a major area of study.

Freshman Seminar Program

In the autumn of 2003, the University started the Freshman Seminar Program consisting of a variety of courses with from 8 to 30 students in each. The instructors apply special teaching methods -- such as group discussion, experiential learning, and interactive teaching -- non-traditional approaches that create opportunities for students to discuss scientific research methods and other issues face-to-face with renowned teachers and professors. Since the autumn of 2005, the seminar program has been offered also to junior and senior undergraduate students.

Laboratory Research Exploration Courses

Tsinghua University launched optional Laboratory Research Exploration Courses open to all undergraduate students in March of 2007. These large-scale, cross-disciplinary experiment-based courses are the first of their kind to be introduced in China. They are available in science, engineering, the humanities, and medicine. They provide undergraduate students with direct experience in the process of scientific research. The courses are taught by distinguished academicians, winners of the Renowned Teachers of the Nation Award, and professors with rich research experience. Through the end of 2008, more than 80 laboratories in 32 schools and departments have been made available for such courses. Nearly 2,100 students have finished and gotten credit for completing their Laboratory Research Exploration Courses.

SRT Project

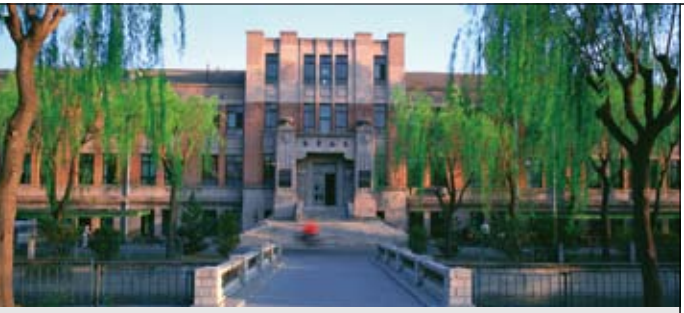
In order to expand the students' breadth of knowledge and better promote quality education, Tsinghua launched the Student Research Training (SRT) Project. By the end of 2008, over 13,300 students had participated in more than 6,300 SRT projects, receiving training in various areas of science earlier in their studies than students in other colleges and universities. The students' creativity -- and awareness of the need for it -- has been greatly advanced. At present, more than 50 percent of all undergraduate students participate in the program.

Graduate Programs

Graduate education at Tsinghua dates back to the 1920s. Following the 1978 decision by China's government to resume graduate education, Tsinghua in 1984 launched its Graduate School, which became one of the first State Council-approved graduate schools in the country. The University ranked No. 1 in the first national assessment of graduate schools in 1995.

In 1981 China set up a degree system. Since then, Tsinghua has granted masters degrees to 44,846 students and doctoral degrees to about 8,348 students. Now, the Graduate School offers both academic and professional degrees.

In 2008, the National Evaluation Institute of Degrees and Graduate Education selected nine doctoral dissertations from Tsinghua as Outstanding Doctoral Dissertations. Altogether, 82 doctoral dissertations from Tsinghua have received this honor. In terms of the number and proportion of papers awarded, Tsinghua University ranked first among research universities in China.



• **Masters Degree Program**

Applicants holding a bachelor's degree or an equivalent degree from an accredited college or university can apply for the masters degree program and take part in the entrance examination. After passing the examination, qualified candidates are interviewed and selected by the University's respective departments. Some students judged to be outstanding can be admitted on the basis of strong recommendations. The period of study for a master's degree is usually 2-3 years.

• **Doctoral Program**

Applicants holding a master's degree or an equivalent degree can apply for doctoral degree programs and take part in the examination. Then they are interviewed for admission by the respective departments. Outstanding students can be enrolled directly into doctoral programs after receiving their bachelor's degree. The period of study for a doctoral degree is usually 3-4 years.

Ph.D Student Innovation Program

In recent years, the University has set up a number of funds to improve the quality of Ph.D graduates by developing doctoral students' creative skills. The funds are the Innovation Fund for Ph.D Students' Scientific Research, the Doctoral Fund for International Meetings, and the Award Fund for Outstanding Doctoral Dissertations. These funds make it possible for Ph.D students to give full expression to their innovative spirit.

In addition, a series of activities such as the Doctoral Academic Forum have been organized to enhance our academic culture. From 2002 to 2008, 198 Doctoral Academic Forums were held which were attended by nearly 15,000 doctoral students and more than 2,300 scholars. In 2003, Tsinghua initiated and hosted the 1st Doctoral Forum of China. The Tsinghua International Forum for Doctoral Candidates has been held

four times since 2005. The National Doctoral Student Academic Meeting on "Frontier Theory and Technology in Mechanics and Aerospace Engineering" was also held last year at Tsinghua.

Overseas Scholars' Short-Term Courses

In order to expand graduate students' global vision and to promote better design of graduate courses, Tsinghua initiated the Overseas Scholars' Short-Term Courses Plan. The Plan funds nearly 230 scholars from renowned universities in such countries as the U.S., Britain, Germany, Japan, and Russia to give short-term courses at Tsinghua. Such courses are warmly welcomed by the students.

International Cooperation and Exchange in Graduate Education

International cooperation and exchange activities such as graduate student exchange programs with overseas universities, cooperation in research, and joint-degree programs were adopted to promote graduate education at Tsinghua. Since 2001, a total of more than 7,000 graduate students went abroad to do research, to attend international meetings, and for short-term exchanges. A number of schools and departments such as the School of Architecture, the School of Economics and Management, the School of Law, the School of Public Policy and Management, and the School of Journalism and Communication have established graduate degree programs for excellent students from abroad. The courses are all taught in English. In addition, nation-wide summer schools for graduate students were also organized to make full use of resources at home and abroad to improve the quality of graduate education.

Degrees

• **Doctoral degrees**
philosophy economics law
education arts history
science engineering medicine management

• **Masters degrees**
philosophy economics law
education arts history
science engineering medicine
management

• **Bachelors degrees**
economics law arts science
engineering management
history philosophy medicine

• **Professional degrees**
Bachelor of Architecture
Master of Architecture
Master of Business Administration (MBA)
Master of Engineering
Master of Public Administration (MPA)
Juris Master (JM)
Master of Professional Accounting (MPAcc)
Master of Sports
Master of Fine Arts (MFA)
Master of Landscape Architecture (MLA)
Master of Medicine
Doctor of Medicine

Student Enrollment

Total	35,369
Undergraduates	14,285
Masters Students	14,090
Ph.D Candidates	6,994

In 2008 Tsinghua enrolled 3,331 new undergraduate students, 2,156 in engineering, 361 in science, 444 in humanities and social science, 223 in management, 74 in medicine, and 73 in law. Also last year, 33 students from 26 provinces, regions and municipalities ranked first in science in the National College Entrance Examination (NCEE) and the number one students in the humanities and social sciences from seven provinces were

admitted to Tsinghua. In all, Tsinghua enrolled 70 percent of the top ten NCEE-ranked science students from each province.

In 2008 Tsinghua enrolled 5,038 masters students and 1,676 doctoral students. Since 1978, Tsinghua University has enrolled 65,000 graduate students, 14,700 doctoral students and 50,200 masters students.

Modern Teaching Management System and Tsinghua Online Classroom

Based on the campus net, Tsinghua's advanced education administration system is able to manage student registration, course selection, and scores. Based on the idea of Student-initiated Learning Guided by Teachers, the campus Intranet-based online classroom creates a learning environment in which an open, instructive approach is achieved. Through the use of the Internet, the online classroom provides a software platform upon which teachers can facilitate learning by utilizing digitized and web-based instructional resources. In the current online classroom, teachers and students can input and download curriculum resources, ask/answer questions, discuss, submit and review homework, conduct online learning and examinations, and more.

Graduation and Employment

Tsinghua has produced more than 160,000 graduates in its 98-year history. The Career Center of Tsinghua is responsible for the guidance and support services necessary to help graduates find jobs. The professionals in the Center explain career objectives and job-seeking strategies to students, help them plan their careers, encourage them to develop a healthy attitude toward life and work, and motivate them to serve the country.

The quality of Tsinghua graduates is widely recognized. Numerous factors have led to the high demand for Tsinghua graduates. In 2008, the employment rate of graduates with bachelors and masters degrees exceeded 98 percent.

Student Financial Assistance System

Tsinghua University prides itself on the considerable attention it traditionally devotes to scholarship programs and other forms of financial assistance it provides for the benefit of college students. Since 2006, new college students have benefited from a newly improved financial assistance system which provides students with more options and higher levels of support. With broad private sector, NGO, alumni, public and government contributions, Tsinghua has gradually extended, improved and integrated its financial assistance system. The system now includes a scholarship program, a stipend program, financial aid and assistance loans. These days Tsinghua has realized its promise--no diligent, talented student need be denied the opportunity for a college education for economic reasons.

In 2006, the Tsinghua Alumni Association launched the Tsinghua Alumni Scholarship Fund. Alumni from around the world have responded enthusiastically with donations. In 2008, over 200 Alumni Scholarships were created and more than 1,000 students benefited. In all, RMB 5 million in scholarships was allocated to worthy students. There are now over 350 scholarship programs available to students each year. More than RMB 28 million has been distributed to 9,000 students so far.

In addition to scholarships, Tsinghua also offers part-time jobs on-campus to students to encourage them to earn their own financial support. In the application process, those from low-income families are granted priority. In 2008, 2,200 part-time jobs were offered on-campus to students and about RMB 3.6 million allocated in compensation and subsidies. Furthermore, Tsinghua initiated the “Green Channel” for needy students which supplies short-term loans to cover tuition fees. In 2008, more than RMB 2.7 million was granted to over 450 students.

Campus Life

Quality Outreach Programs

Tsinghua launched the Quality Outreach Programs in 1998. The programs use the quality outreach accreditation system as a tool to stimulate and guide students in their all-round development. The objective of the programs is to encourage students to participate in activities that stress "Self-Education, Self-Reliance, and Self-Service" and thus to achieve comprehensive personal growth. In 2008, the University approved 878 outreach programs.

Science and Technology Extracurricular Activities

Tsinghua offers students a broad range of extracurricular activities involving science and technology. All activities are designed to foster the students' creativity. In last year's events series, starting with the Twenty-sixth "Challenge Cup" of Science and Technology, a record number of students participated. Other events such as the Structural Design Contest, the Electrical Design Contest, the Mechanical Innovation Contest, the Computer Knowledge Contest, and the Humanities Knowledge Contest, involve many departments and thousands of students. The University also developed new plans for cultivating students' innovative talents and selected some students as Scientific Innovation Stars for their outstanding performance in academic studies and innovation. A Tsinghua team also represented China in the Intel + UC Berkeley Technology Entrepreneurship Challenge (IBTEC) in Berkeley, California. In

addition, Tsinghua opened a series of forums on a variety of topics. Tsinghua also sponsored such other extracurricular activities as the Doctoral Students' Forum, graduate student academic competitions, graduate coffeehouses, and public lectures.

Arts Organizations

The Student Art Troupe was formed in 1958. With total membership of nearly 1,000, the Troupe is made up of such multi-specialized groups as the Military Band, the Traditional Instruments Orchestra, the Choir, the Philharmonic Orchestra, the Dance Group, the Drama Troupe, the Keyboard Instrument Band, the Ballroom Dance Group, the Traditional Chinese Quyi Team, the Beijing Opera Theatre Group, and the Painting Group. The Troupe strives to promote the classical arts and culture of China.

In 2008, the Student Art Troupe celebrated its 50th anniversary by holding a series of anniversary activities, including an exhibition, a meeting, and an evening concert. In all, the Troupe made appearances at nearly 40 performances for teachers and students, including high-level special performances, the New Year's Concert, the Evening Party, and salons. The Military Band and the Philharmonic Orchestra gave a special performance at the National Grand Theater. The Choir was invited to participate in the performance celebrating the anniversary of the National Grand Theater. The Philharmonic Orchestra and the Choir, together with the Stanford University Choir and other U.S. art groups, gave a performance in the Great Hall of the People to celebrate the opening of the "China International Youth Arts Week". The Art Troupe also performed for the people of the Wenchuan earthquake-hit area during the summer vacation.

The Students' Association, the Graduate Students' Association, the Student Art Troupe and other groups organized a series of student art events and activities that included the Campus Singing Contest, the Campus Fashion Contest, and the Movie Party on New Year's Day. The Students' Festival organized annually by each department is another example of the rich campus life available at Tsinghua.

Student Sports

The Tsinghua Student Sport Team was set up in 1954. The team includes 32 groups which involve more than 500 students in 22 sports. The Team aims to combine the moral, intellectual, physical, and aesthetic growth and development of the students. Currently, the University has more than 50 national-level student athletes. In 2008, Tsinghua students Hu Kai, Liu Qing, Li Xiangyu, Cao Yifei, and Zhao Yinghui participated in the Beijing Olympic Games. In the 2nd World University Shooting Championship hosted by Tsinghua, Tsinghua students won more gold medals than any other team. The Tsinghua Crew won first place in the Chinese University Crew Invitational (also known as the Peking University-Tsinghua Competition) and third place in the International University Rowing Championships. The Track and Field Team has won 14 consecutive Beijing College Track & Field Meet championships. Tsinghua students won a number of first and second prizes in the National University Games and National Urban Sports Meeting.

Student Organizations

An important aspect of extracurricular activities is that they contribute to the healthy development of a student's personal interests. Currently, there are 110 registered associations involving sports, science and technology, the arts and humanities, and public service, with a membership of more than 19,000. Various associations provide students more opportunities to pursue individual interests and self-development.

The Annual Association Culture Festival provides a platform for promoting communications among the various student associations. The Festival was warmly welcomed by the students and has been held five times.

Volunteer Activities

Tsinghua University was the main university responsible for volunteer work at the National Swimming Center and the International Broadcast Center for the 2008 Beijing Olympic Games. Many Tsinghua students and teachers participated in Olympic and Paralympic Volunteer Recruitment. More than 3,000 students contributed as volunteers for the Olympics and Paralympics.

Based on campus, Tsinghua volunteers get involved in the wider community. The Head Team of Zijing (Redbud) Volunteer Service was founded in 1996. Currently, the Head Team is composed of an undergraduate student volunteer team, a graduate student volunteer team, the Tsinghua University Student Red Cross, and nearly ten student public service associations with more than ten thousand registered students. The Tsinghua volunteers participate in various activities such as the University anniversary service, alumni liaison, and as university tour guides.

Social Practice

Guided by the principle that social work should be relevant to professional learning, social service, and future employment, Tsinghua University sponsors various social activities during the winter and summer vacations. These activities include public service, education aid in impoverished areas, science and technology service, investigation tours around China, and alumni interviews. In 2008, more than 12,880 students were involved in social practice.

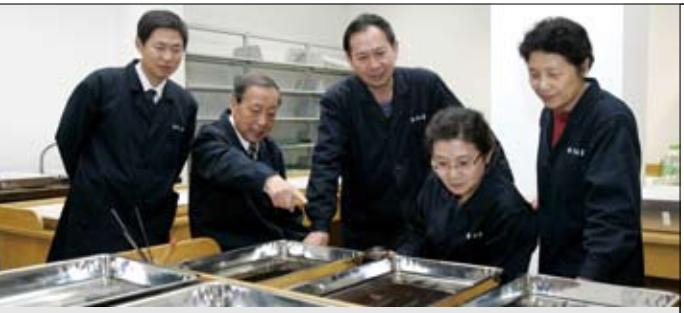
Research

Significant Achievements

Tsinghua University is committed to the idea that research should meet the strategic demands of the nation. The University is also committed to keeping its research on the cutting edge of world scientific developments. Tsinghua University puts equal emphasis on basic and applied research, encourages the development of interdisciplinary study, and has improved significantly researchers' capacity for scientific innovation. At present, Tsinghua has a number of high-level scientific platforms with significant capacity for basic research, applied research, and technology transfer.

Since the launch of the 985 Program, Tsinghua University has brought together the country's top experts to tackle critical problems and to make significant progress in important basic and applied research. The following achievements have been made:

- Exported and implemented large container customs inspection systems.
- Built and put into operation the world's first modular high-temperature gas-cooled reactor. The High Temperature Gas-Cooled Reactor Nuclear Power Station is listed as a national science and technology major project.
- Launched the Tsinghua designed Tsinghua No.1 mini-satellite and the Naxing I satellite which are operating smoothly.
- Developed a superconducting microwave filter and a kilometer-length high-temperature superconducting wire.
- Invented the world's first biochip integrating an electric force field and a magnetic force field.
- Developed world leading technology for batch fabrication of carbon nanotubes.
- Built the first roller-compacted concrete arch dam in a low-temperature, soft-soil, earthquake-prone region.
- Developed fuel-cell city buses for use in the Beijing Olympics.
- Developed the Ipv6 based core router with independent intellectual property rights.
- Invented a 32-bit micro-processor (THUMP) which reached a frequency of 400MHZ but consumed less than 0.5W power.
- Developed and implemented 20MVA and 50MVA Static Synchronous Compensators (STATCOM).
- Developed the TH-OCR Leading Performance Asian Languages Hi-fidelity Document Intelligent Digitization System.
- Developed a dynamic simulation system for a 135MW CFBC boiler.



- Developed a large-scale high-energy industrial CT.
- Developed a mass optical disc database application information system.
- Researched and successfully developed a three dimensional new generation energy coordination and management system.
- Constructed the first demonstration super-energy efficiency building.
- Made innovative breakthroughs in the technology for toxic, hazardous and organic wastewater bio-treatment.
- Made innovative breakthroughs in organic light emitting devices research (OLED) which have been successfully commercialized.
- Created and applied in different areas time domain synchronous orthogonal frequency division multiplexing (TDS-OFDM) technology.
- Invented a Cobalt-60 Digital Radiography System for Container Inspection.
- Developed partitioning technology for high-level liquid waste.
- Invented a new type of computer system based on SOPCA architecture.
- Invented a novel colloidal forming technology for ceramics.
- Invented high-performance low-temperature sintering ferrites.
- Described the discovery of a new mechanism for animal fetation in *Science:* "Zebrafish Dpr2 Inhibits Mesoderm Induction by Promoting Degradation of Nodal Receptors."
- Published “The Crystal Structure of Mitochondrial Respiratory Membrane Protein Complex II" in *Cell*.
- Proposed and published a general strategy for ¨Liquid-solid-solution" inter-transfer and inter-separation for nanocrystals synthesis in *Nature*.
- Invented an artificial nanobone and received permission for pilot production.
- Gained approval from China's State Food and Drug Administration for Endostar, the world's first anti-cancer drug which inhibits the growth of vascular systems around tumors and chokes off a tumor's blood supply.
- As one of the major contributors, built the world-leading CNGI-CERNET2/6IX key network as part of the China Next Generation Internet (CNGI) demonstration project.
- The simulation analysis platform which has been developed at the energy-saving building has been widely used in major construction projects for quality assurance, energy-saving optimization as well as other building energy-saving efforts.

Major Research and Development Achievements in 2008

In 2008, Tsinghua won 23 national science and technology prizes. The prize-winning research achievements included:

• **State Natural Science Award (second prizes)**

Formal Models and Logical Foundations of Non-Classical Computation;

Functional Nanomaterials: Rational Synthesis, Structure, Properties and Their Applications;

Nonlinear Control Theory of Large Scale Power Systems;

Collision Attack on the Existing Hash Functions;

Artificial Boundary Method and Numerical Solution of Partial Differential Equations.

• **State Technological Invention Award (second prizes)**

New Technology of Streaming Media Service Based on Networks Integration;

Nano-Calcium Phosphates/Collagen-based Bone Repair Materials;

New Generation Energy Management System for Power Systems with 3-Dimensional Coordination;

Drug Design, Large-scale Preparation and Clinical Applications for a New Angiogenic Inhibitor;

A Novel Technology for Preparing Phosphorus Acid with Effective Recycle and Utilization of Reactive Heat from Burning Elemental Phosphorus;

Piercing Hardware, Clamping Voltage Post Insulator and Surge Arrester with Series Gaps against Lightning Breakage of Insulated Conductor for Overhead Distribution System.

• **State Scientific and Technological Progress Award (first prizes)**

FACTS (TCSC) Key Technologies and Its Application to Transmission Systems

• **State Scientific and Technological Progress Award (second prizes)**

TH-ID face and Writer Identification and Verification Systems;

Building an Energy Saving Simulation Analysis Platform-DeST and It's Application;

Polishing, Modification and Measurement Techniques for Ultra Precision Surfaces and Their Applications;

Fluvial Processes of Braided Rivers and Their Application in the Regulation of the Yellow River and Tarim River;

China Education and Research Grid;

The Research Development and Application on the Whole Technology of 100kt/a Aniline;

An Explicit Integral Method for Seismic Analysis of High Dams and Determination of Ground Motion on Site and Their Engineering Application;

Key Technologies of 90~65 nm ULSI for Mass Production;

High-performance Broadband Network (3TNet).

In 2008, Tsinghua won 67 provincial and ministerial science and technology awards and four Ho Leung Ho Lee Foundation Science and Technology prizes. By the end of 2008, Tsinghua had won 377 national level science and technology awards and 2,000 provincial and ministerial science and technology awards.

In 2008, 32 projects passed assessments and 63 projects were registered as national technological achievements. The number of patent applications was 1,310. There were 670 Chinese patents granted. There were 320 applications for international patents, and 66 foreign patents were granted. There were 164 copyrights registered for software products. There is one registered for layout design of integrated circuit.

Key Projects and Contracts in 2008

In 2008, Tsinghua undertook numerous competitive projects, including over 378 projects sponsored by the National Science Foundation (NSF); two Projects of the Major Research Plan; 19 projects sponsored by the 973 Program; 93 projects sponsored by the 863 Program; a total of 74 National Science and Technology Supporting Projects; 94 projects separately initiated and supported by the National Development and Reform Commission, the Ministry of Communication Industry, the Ministry of Construction, the China National Petroleum

Corporation, and the China Petroleum and Chemical Corporation. The Ministry of Education sponsored 110 science and technology projects. Beijing municipal organizations sponsored an additional 55 projects. There were three Key Projects of the National Social Sciences Foundation and 16 other projects sponsored by the National Social Sciences Foundation. Two projects in Marxist Theory studies were named major projects of the National Social Sciences Foundation. The National Social Sciences Foundation also sponsored two arts projects and four national science of education projects. Ten projects in the humanities and social science were sponsored by the MOE; and 90 projects in collaboration with national ministries and commissions were launched. In addition 529 R&D projects involving overseas collaboration were carried out and more than 1,400 R&D projects were completed involving cooperation with Chinese domestic industries.

Five major research projects have been approved by the National Basic Research Program of China (also known as the 973 Program): (1) “Basic Research on Manufacturing Equipment in Super-large-scale Integration” led by Professor Luo Jianbin from the Department of Precision Instruments and Mechanology; (2) “Basic Research on the Architecture and Protocols for the New Generation Internet” led by Professor Wu Jianping from the Department of Computer Science and Technology; (3) “Research on the Theory and Technological Foundations of Integrated Control Systems for Complex Production Manufacturing Processes” led by Academician Chai Tianyou; (4) “Some Fundamental Issues of Functional Ceramics and Their Devices for Information Technologies” led by Professor Nan Cewen form the Department of Materials Science and Engineering; and (5) “Astrophysical Research on Black Holes and other Compact Objects” led by Professor Zhang Shuangnan from the Department of Physics.

By the end of 2008, Tsinghua had undertaken 28 projects sponsored by the 973 Program involving 28 chief scientists. Tsinghua has become one of the country’s leading units for supervision and conduct of 973 Program projects.

Platform Construction in 2008 for Research and Development

• The National Research Center of Gas Turbine and IGCC Technology, the National Engineering Laboratory for Anti-tumor Protein Therapeutics, and the National Engineering Laboratory for Next Generation Internet Backbone were newly approved by the National Development of Reform Commission.

• Two Large-Scale National Scientific Instruments Centers,--the Beijing Electron Spectroscopy Center and the Beijing National Center for Electron Microscopy, were approved.

• The International R&D Center for Novel Materials and the New Energy and Environment Research Center were in the list of the first 13 international science and technology cooperation key research centers supported mainly by universities.

• Three State key laboratories in engineering and material sciences were evaluated as outstanding in 2008.

Papers Collected by Major Indexing Publications in 2007

According to the Institute of Scientific and Technical Information of China (ISTIC), Tsinghua ranked second nationwide in the number of other-citations of research papers collected by SCI (3,451) and the number of research papers collected by SCI (2,613). The university continued to rank first in the number of research papers collected by EI (3,393) and the number of research papers collected by ISTP (1,752). The number of research papers collected by SCI ranked first in China for physics and material science, third for mathematics and chemistry, fourth for environmental science and engineering, seventh for biology, and eighth for astronomy.

In 2007, 3,976 research papers were published in major domestic scientific journals and 7,758 research papers were published in major international scientific journals.

Major Laboratories, Research Centers, and Research Bases

• **National Laboratory**

Tsinghua National Laboratory for Information Science and Technology

• **State Key Laboratories**

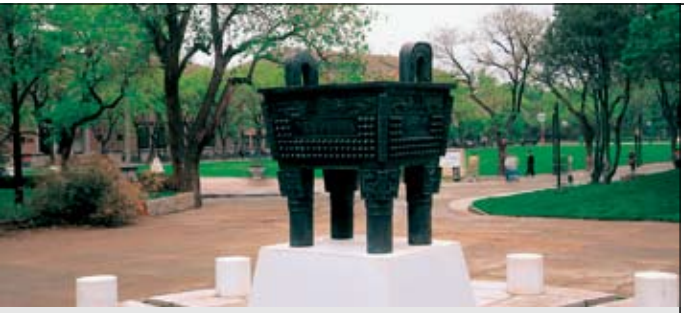
Laboratory of Tribology
Laboratory of Intelligent Technology and Systems
Laboratory of Integrated Optoelectronics (Tsinghua Branch)
Joint Laboratory of Chemical Engineering
(Sub-Laboratory of Solvent Extraction)
Laboratory of Biomembrane and Membrane Biotechnology
(Sub-Laboratory of Membrane Biophysics and Membrane Biotechnology)
Laboratory of Control and Simulation of Power Systems and Generation Equipment
Laboratory of Microwave and Digital Communication
Laboratory of New Ceramics and Fine Processing
Laboratory of Automotive Safety and Energy
Joint Laboratory of Environment Simulation and Pollution Control
(Sub-Laboratory in Tsinghua University)
Laboratory of Precision Measurement Technology and Instruments
(Sub-Laboratory in Tsinghua University)
Laboratory of Hydroscience and Engineering
Laboratory of Medical Biology
Laboratory of Molecular Oncology
Laboratory of Experimental Hematology

• **National Engineering Research Centers**

Optical Memory National Engineering Research Center
Clean Coal Combustion National Engineering Research Center
Biochip National Engineering Research Center, Beijing
National Research Center of Gas Turbine and IGCC Technology
National CIMS Engineering Research Center
National Enterprise Information Software Engineering Research Center

• **National Engineering Laboratories**

National Engineering Laboratory for Anti-tumor Protein Therapeutics
National Engineering Laboratory for Next Generation Internet Backbone



• **Key Laboratories of the Ministry of Education**

Laboratory of Structural Engineering and Vibration
Laboratory of Failure Mechanics
Laboratory of Advanced Material
Laboratory of Bio-organic Phosphorus Chemistry & Chemical Biology
Laboratory of Atomic and Molecular Nanosciences
Key Lab of Ministry of Education on Bioinformatics
Laboratory of Protein Science
Laboratory of Advanced Reactor Engineering and Security
Laboratory of Pervasive Computing
Laboratory of Organic Optoelectronics and Molecular Engineering
Laboratory of Particle & Radiation Imaging
Laboratory of Thermal Science and Power Engineering
Laboratory of Advanced Materials Processing Technology
Laboratory of Security for Information Systems
Laboratory of Ecological Programming and Green Building
Laboratory of Bioactive Substances and Resources Utilization of Chinese Herbal Medicine
Laboratory of Clinical Cardiovascular Genetics

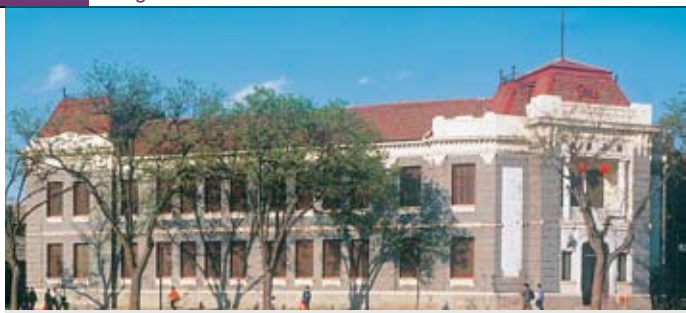
• **Research Center of the Ministry of Education**

Computer Networking Technology and Engineering Research Center
Radiation Technologies and Radiation Imaging Research Center
Energy Saving in Architecture Research Center
Solid State Device and Integrated Technique Engineering Research Center
Clean Energy Chemical Engineering Research Center

• **Key Laboratory of the Ministry of Science and Technology**

New Type Material Simulation Design Key Laboratory, Ministry of Science and Technology

• **Key Laboratories of the Ministry of Health**



Laboratory of Biosynthesis of Natural Products
Laboratory of Endocrinology
Laboratory of Biotechnology of Antibiotics
Laboratory of Microcirculation
Laboratory of Clinical Trial Research in Cardiovascular Drugs
Laboratory of Cardiovascular Regenerative Medicine
Laboratory of Human Diseases Comparative Medicine

• **Beijing Key Laboratories**
Laboratory of Fine Ceramics
Laboratory of Green Chemical Reaction Engineering and Technology
Laboratory of Heat Transmission and Energy Use
Laboratory of "3E"
Laboratory of Protein Medicine

• **Key Laboratory of the State Administration of Traditional Chinese Medicine**
Laboratory of Traditional Medicine Resources Utilization and Protection

• **Key Research Bases for the Humanities and Social Sciences, Ministry of Education**
Modern Administration Research Center
College Moral Education Research Center
Research Center for Technology Innovation

• **Strategy Research Base of Ministry of Education**
Research Center for Science and Education Policy, Tsinghua University

• **State Sports Administration Key Research Base**
State Sports Administration Key Research Base for Sports and Social Sciences

• **Key Research Center of the Ministry of Culture**
National Cultural Industry Research Center, Tsinghua University

• **National Development of Reform Commission**
China Institute for Development Planning at Tsinghua University

• **Ministry of Science and Technology**
China Institute of Science and Technology Policy at Tsinghua

University

• **China Association for Science and Technology**
Center for Science Communication and Popularization of CAST and Tsinghua University

• **Beijing Research Base for Philosophy and Social Sciences**
Base for Emergency Management Research

• **Ministry of Education Web-cooperation Research Centers**
IC Design Web-cooperation Research Center

Nanosciences Technology and Computer Electronic Web-cooperation Research Center

Chinese Traditional Medicine and Western Medicine Modernization Web-cooperation Research Center

Intelligent Science and Technology Web-cooperation Research Center

Coal Burning and Technology Web-cooperation Research Center

Nuclear Science and Technology Web-cooperation Research Center

• **Joint Local Community Research Institutes**
Research Institute of Tsinghua University in Shenzhen

Beijing Tsinghua Industrial R&D Institute

Institute of Tsinghua University, Hebei

Yangtze Delta Region Institute of Tsinghua University, Zhejiang

• **Other Important Research Institutes**
Institute for Advanced Study

Zhou Pei-Yuan Center for Applied Mathematics

Development Research Academy for the 21st Century

Institute of Materials Science and Engineering

Institute of Environmental Science and Engineering

• **Tsinghua Institutes and Research Centers**
Aerospace Technology Center
Center for Marxism Research
Institute of Education
Center for International Communications Studies
Institute of International Studies
China Institute for Science and Technology Policy at Tsinghua University, CISTP
Center for China Study, CCS
Sino-Russian R&D Center for Light Alloys
Engineering Research Center for Power Electronics
Center for Technology and Engineering of Navigation
Tsinghua-Foxconn Nanotechnology Research Center
Research Center for Public Safety
Institute of Energy, Environment and Economy

Research Center for POPs
Institute of Architecture and Urban Studies
Center for Astrophysics
Research Center for Atomic and Molecular NanoSciences
Institute of Transportation
Center for 3S
Institute of Automotive Research
Research Center for Micro/Nano Technology
Research Center for Sports & Health Sciences
Research Center for Science, Technology and Society
Research Center for Linguistics
Center for Asian Studies
Center for Ethics and Religious Studies
Institute of History of Science and Technology & Ancient Documents
Center for Environment, Resources and Energy Law
Art & Science Research Center
Center for China's Economic Studies
Institute of Taiwan Studies
Research Center for Cultural Industry
Research Center for High Energy Astrophysics
Research Center for Gas Turbines
Center for China in the World Economy
Institute for Chinese Archaeology and Art History
Institute for Internet Behavior
China Institute for Development Planning at Tsinghua University
Center for Science and Technology Communication and Popularization at Tsinghua University
Center for Energy Efficiency in Buildings
Center for International Transboundary Water and Eco-Security
Center for Marxist Journalism and Journalism Education Studies
Global Environmental Research Center
Comprehensive Aids Research Center
Institute for Theoretical Computer Science
School of Materials Science and Engineering
Institute of Biomedcine, Tsinghua University
Institute of Mentality and Culture, Tsinghua University

China Center for Financial Research
Center for the Study of Gerontology
National Research Center for Cultural Industry in Tsinghua
Laboratory of Low Carbon Energy Tsinghua University
China Automotive Energy Research Center of Tsinghua University
Center for Cleaner Production and Circular Economy, Tsinghua University
Center for Ecological Restoration and Carbon Fixation of Saline-alkaline Land, Tsinghua University
Research Center for Mobile Computing, Tsinghua University
Tsinghua University - UC Berkeley Center for Psychological Studies
Institute of Low Carbon Economy
Center for Japanese Studies, Tsinghua University
Israel Epstein Center for Journalism Studies, Tsinghua University
Center for Excavated Texts Research and Protection, Tsinghua University
Institute for National Fiscal and Taxation Studies, Tsinghua University
Center for Pharmaceutical Research and Development, Tsinghua University
Center for Safety and Protection
Center for Engineering Education, Tsinghua University

Overseas Exchange and Cooperation

Tsinghua University has a long tradition of actively seeking strategic partnerships and collaborations with other prestigious universities. The University sponsors high-level academic exchanges, joint programs, international conferences and other international activities. Student exchanges are encouraged to cultivate talented students with global vision. Tsinghua also plays an important role in global higher education organizations to promote multilateral cooperation and organizes many academic and cultural activities abroad to deepen mutual understanding between people from different countries and regions.

Exchanges

In 2008, Tsinghua University signed twenty-five new cooperation agreements with foreign universities. By the end of 2008, Tsinghua had built collaborative relationships with 208 universities in 39 countries and regions.

The University now has more than 300 study abroad programs and over 30 student exchange programs with prestigious overseas universities.

Tsinghua received 26,000 overseas visitors in 2008 including presidents and vice presidents from 120 leading universities, seven state or former state leaders, 17 ministers, vice ministers, state governors and mayors, 18 ambassadors to China, and 20 CEOs and board chairmen of international companies.

Tsinghua faculty and students made 3,771 and 2,099 out-going trips respectively for academic and exchange activities in 2008. In all, 631 students went abroad to attend academic conferences, 103 to participate in international competitions, and 1,365 for study, research, internships, or academic visits and exchanges.

International Activities

- Todai Week at Tsinghua
- Berkeley Week at Tsinghua
- The University of Melbourne Day at Tsinghua
- The Tanner Lectures on Human Values
- Sino-Dutch Energy for the Future Seminar
- Tsinghua-EPFL Workshop
- Tsinghua-KTH New Energy Wokshop
- Tsinghua-UCSD Workshop

Visiting Scholars from Overseas

In 2008, a total of 927 overseas scientists and scholars from more than 40 countries and regions were invited to Tsinghua University, including six Nobel laureates. Tsinghua also conferred honorary academic titles on twenty-four scholars and dignitaries.

International Conferences

In 2008, Tsinghua University hosted 38 international and regional academic conferences with a total of 4,676 participants. In all, there were 1,961 experts and scholars from overseas.

International Students

The number of international students at Tsinghua has increased 10 to 25 percent annually in the recent 5 years. In the 2008 Fall Semester, there were 634 international students newly enrolled in Tsinghua degree programs, including 272 undergraduates and 362 postgraduates. At present, there are 2,404 international students from 103 countries studying at Tsinghua University.

Tsinghua Forum

The Tsinghua Forum is sponsored by the Academic Affairs Committee and designed to keep pace with the latest academic achievements, to invigorate the academic atmosphere, and to promote peace and development.

The Forum features speakers addressing a wide range of topics, including science and technology, economics, and society and culture as they relate to the development of China and the world. The Forum is held four times a year.

Former US Vice President Al Gore delivered an address on global climate change on October. 10, 2005 to kick-off the Tsinghua Forum. Altogether 18 forums have been held. The speakers in 2008 were:

- Mr. Rick Wagoner, GM Chairman and CEO, on “The Solution Is Within Your Grasp”;
- Professor Adi Shamir, Turing Award Winner, on “How Cryptosystems Get Broken”;
- Professor John Holdren of Harvard’s John F. Kennedy School of Government, on “Meeting the Climate-Change Challenge: What Do We Know? What Should We Do?”;
- Ms. Fan Jinshi, Director of Dunhuang Academy China, on “ The Silk Road and the Art of Dunhuang Mogao Cave”;
- Professor Andrew Chi-chih Yao, Tsinghua Professor and Turing Award Winner, on “China’s Road toward the Turing Award”;
- Dr. Bruce Alberts, *Science* Editor-in-Chief, on “Science and the World’s Future”;
- Professor James Watson, Nobel Prize Winner, on "Science in Ten Ways over 60 Years";
- Academician Xu Guanhua, Former Minister of Science and Technology, on “The Prospect of Global Change Research in China”;
- Professor Cheng Siwei, Chinese Economist, on “The Current Economic Situation and the Development of Estates in China”.

Tsinghua Global Vision Lectures

Tsinghua Global Vision Lectures is a new initiative launched by Tsinghua University to provide students with global perspectives. It consists of a series of lectures given by country leaders, Nobel laureates, world leading entrepreneurs, university presidents, and outstanding experts in a wide range of fields.

The lecture series constitutes a university-level open course which is available to all students in Tsinghua University. Students can register online and apply for credit after they attend a certain number of lectures.

These lectures fall into two groups:

• The Global Leadership Series include lectures aimed to promote student leadership, broaden their view of the world and enhance their ability to compete in a global age;

• The Advanced Studies Series include lectures which provide students with cutting-edge insights into academic research in all disciplines.

Speakers who have lectured in this course in 2008 include:

- Mr. Jyrki KATAINEN, Minister of Finance and Deputy Prime Minister of Finland.
- Dr. Joseph E. Stiglitz, Nobel Prize Winner in Economics, 2001
- Dr. David Miller, Professor of Political Theory at Oxford University
- Dr. Drew Faust, President of Harvard University
- Mr. Sonny Perdue, Governor of the State of Georgia
- Mr. Reinhold Achatz, Corporate Vice President, Siemens Corporate Technology

- Mr. Azuma Makoto, Senior Executive Vice President and CTO, Toshiba Corporation
- Mr. András Szöllösi-Nagy, Deputy Assistant Director General of UNESCO
- Dr. Way Kuo, President of City University of Hong Kong
- Dr. Athanassios Fokas, Professor of Mathematics, Cambridge University
- Dr. CHEN Zhiwu, Professor of Finance, Yale School of Management
- Mr. Enrico Clementi, IBM Fellow
- Dr. Jeffrey S. Lehman, Former President of Cornell University
- Dr. Glyn Davis, Vice-Chancellor, the University of Melbourne
- Dr. Knut W. Urban, Vice-Chairman of the Association of German Scientific and Technical Societies (DVT)
- Dr. Alan Needleman, Member of US National Academy of Engineering
- Mr. Charles Soothill, Senior Vice President Technology, Alstom Power Systems
- David Gross, Nobel Prize Winner in Physics, 2004
- Ms. Anne Roosevelt, Boeing Vice President of Global Corporate Citizenship
- Dr. Edward F. Crawley, Professor and Department Head of Aeronautics and Astronautics at MIT
- Dr. Bruno Latour, Professor at Sciences Po Paris associated with the Centre de sociologie des organisations
- Mr. ZHANG Zhizhong, Executive Vice President, Director General Manager of Walt Disney Company (China)
- Dr. Richard N. Cooper, Professor of International Economics at Harvard University

Teaching and Research Support Service System

To better support teaching and research, Tsinghua University established an intelligent multimedia educational network of information in which all resources can be widely shared. This network improves the educational environment and expands the services of the electronic library.

Library

The Tsinghua University library system is composed of the University Library and professional libraries, including human science, economic management, law, architecture, art and medicine. It covers 41,600 square meters and provides over 2,700 seats. The library maintains a rich collection of more than 3,620,000 items. It is a comprehensive library system which provides various types of media. It contains materials in science, technology, literature, law, management and art. Among its collection of treasures are Chinese and foreign ancient books, oracle bones, bronzes, calligraphy, and drawings by famous people.

Since the 1990s, the Tsinghua University Library has upgraded its electronic facilities. It has gradually established a complete advanced information infrastructure and deployed rich electronic academic information resources, including secondary documents such as abstracts and indices. The University now has more than 46,000 kinds of full-text electronic academic journals, more than 1,950,000 e-books, and over 61TB of resource data on its local server. It has also adopted a new and advanced mode of service which tries to

bring the library closer to teachers and students. It targets its services to the demands of the teaching and research work of the school. Moreover, it has established a service-oriented information system that is fully dimensional, multi-level, open, and effective. It is an important facet of Tsinghua's drive toward becoming a world-class university.

Network Research Center

The Tsinghua University Network Research Center was set up in June 1994 for interdisciplinary research in information science. It is mainly in charge of the construction, operation and management of the CERNET (China Education and Research Network), CNGI-CERNET2, one of the backbone networks of the China Next-generation Internet (CNGI), as well as CNGI-6IX and TUNET (Tsinghua University Network). TUNET is one of the advanced campus networks in China. The CNGI-CERNET2 is the largest Internet backbone over native IPv6 in the world. Cooperating with related universities and institutes, NRC has undertaken and fulfilled a series of major state research projects. The NRC has also completed the three-layer academic chain of computer and network disciplines, including a large-scale trial network, a key technology solution and fundamental theory research. NRC has made many innovative breakthroughs in next-generation Internet research and holds a leading position in this field. It has distinguished itself as an important foundation of China's computer network technology research and a platform for talent cultivation.

Computer and Information Management Center

The Tsinghua University Computer and Information Management Center was set up in 1976. It serves as

the major academic support system for the University. Its main tasks are to conduct research, to plan, build, operate and maintain a digital campus, and to offer services and training to the users. In recent years, the Center has produced about 90 campus information systems, which include the University Information Portal, the Electronic Identity Management and Accreditation System, the Office Automation System, the Web-based Teaching System, the Distance-Learning System, the Teaching Administration System, the Integrated Finance System, the Equipment Management System, the Personnel Management System, and the Science Resarch Managemnet System. The ideas proposed by the Center, such as the Digital Campus, University Resource Planning URP, the Campus Data Center, and the Digital Campus Running Service System, are now used as models for work in this field.

The Computer Open Laboratory, managed by the Center, is the first large network computer science laboratory in China. It is an important component of the leading Tsinghua University Computer Laboratory Teaching Center. The Laboratory is equipped with more than 400 high-performance computers which provide abundant internet study resources and a convenient learning environment for students.

Electronic Teaching Center

Launched in early 1978, The Electronic Teaching Center is a special unit of Tsinghua for educational technology research and application. The main tasks of the Center are: research; development and maintenance of the multimedia educational environment; technical support for important conferences and activities; construction, operation and maintenance of the campus cable TV net; and dissemination of campus news, TV programs and information.The Center is also responsible for research and production of audio-video educational programs and multi-media network courseware, and the pooling of educational resources on the web.

Continuing Education

Tsinghua University's continuing education training for staff and workers in society dates back to the 1950s. For the past several decades, Tsinghua has cultivated many of the professionals desperately needed by our country through practice-oriented training. The School of Continuing Education (SCE), founded in 1985, is China's first school of continuing education approved by the Ministry of Education. In early 2002, the SCE was changed from an administrative organization to a subordinate organization specially engaged in training. It has become the mainstay of the Tsinghua University continuing education effort. In the same year, the Administration Office of Professional Training was established to administer Tsinghua's continuing education, distance education and adult education programs.

The SCE has two campuses: the headquarters and main complex are on the Tsinghua campus and the Guanghua Road campus is located in the Central Business District (CBD) on the East Third Ring Middle Road in the Chaoyang District of Beijing. The SCE now has a total of 15 training centers separately subordinated to five training departments: the Economic Management Training Department, the Public Administration Training Department, the Society and Culture Training Department, the Engineering Technology Training Department and the Department of International Cooperation and Training.

The UNESCO Chair for Continuing Engineering Education in China was established in 2002 as an integral part of the School of Continuing Education.

The SCE has rapidly expanded its training scale since it was established two decades ago, especially in recent years. Over 230,000 person-time participants attended SCE face-to-face training programs and acquired certificates from 2002 to 2008. At the same time, SCE also achieved important progress in distance education for domestic enterprises. Nearly 10,000 hours of elite course wares have been developed for enterprises which serve nearly one thousand group users. There have been 1.5 million person-time learners utilizing distance education technology and large-scale open classes.

In keeping with the principle of "Spread Knowledge, and Eliminate Poverty", the SCE has been directing its Education-Aiding-the-Poor Project since 2003. Under the project, the SCE sets up Tsinghua University Distance Learning Centers in key counties. The program utilizes modern information technology and provides software and hardware facilities and education training courses free of charge to these impoverished areas through the centers. By the end of December 2008, the SCE had set up 414 Distance Learning Centers in 27 provinces, municipalities and autonomous regions in China. The project has developed many training courses and training programs suitable for the teachers, students, cadres and farmers in poverty-stricken areas. Over the past five years, the program has given training to more than 590,000 person-time participants.

The SCE has also offered the Summer Service and Learning Program in rural China since 2006. More than 800 teachers and students from Tsinghua University and over 160 teachers and students from American universities have been to our Distance Learning Centers to provide teaching and training in English, computer technology, learning experience exchange

and to conduct social surveys. The activities disseminate knowledge and hope for poverty-stricken areas and establish a platform for friendship and cooperation between Chinese and American youths.

The SCE also conducts international cooperative education training programs. At the moment, SCE has developed close cooperation in many fields with world-renowned universities, training institutions and enterprises in the USA, the UK, France, Sweden, Japan, South Korea and Australia

Poverty Alleviation Project

In 2006, Tsinghua organized the Sino-American University Student Summer Vacation Poverty Alleviation Social Practice. Nearly 1,000 Tsinghua teachers and students and about 230 volunteers from United States universities have participated in this initiative since its inception. The project teams spend several summer weeks teaching teachers how to teach English language skills and teaching computer skills and English reading and speaking skills to students in China's impoverished rural areas.

Social Service

Cooperation with the Local Community and Industries

In recent years, Tsinghua University has become more involved in serving society and has accelerated technology transfer to aid the country's economic development. Up to the end of 2008, Tsinghua University had established close cooperation agreements with twenty-four provinces as well as cities and municipalities throughout China. The Tsinghua University-Industry Cooperation Committee, established in 1995, has signed cooperative contracts with more than 180 domestic and international companies. The Tsinghua International Technology Transfer Center was established in 2001 as an important supplement to the University's technology transfer efforts. The University has established the Research Institute of Tsinghua University in Shenzhen, the Beijing-Tsinghua University Industrial Development Institute, the Hebei-Tsinghua Development Institute, and the Yangtze Delta Region Institute of Tsinghua University in Zhejiang.

Tsinghua Holdings Co., Ltd.

With approval of the State Council, Tsinghua Holdings Co., Ltd. was founded in 2003 with registered capital of RMB 2 billion. With Tsinghua University as the sole investor, Tsinghua Holdings is a state-owned limited company. The business focuses of Tsinghua Holdings include scientific and technological achievement transformation, the incubation of high-tech enterprises, investment management, asset reconstruction and capital operation, and technology and information consultation.

Tsinghua Holdings has invested in major shareholding positions in listed and unlisted companies--for example, Tongfang, Unisplendour, and Chengzhi--and 32 other companies.

The companies in Tsinghua Holdings' portfolio are concentrated mainly in information technology, energy and the environment, life science, and products and services of other advanced technologies.

Tsinghua Science Park

Tsinghua Science Park is the only Class A university science park in China. It is situated in the heart of Beijing's Zhongguancun Science Park, where many top universities, colleges and research institutions are clustered. As an outreach of the University's social services, the Science Park is positioned to be a base for incubating startups, for fostering innovation, and for commercializing intellectual property from scientific research.

Tsinghua University Press, Design and Research Institutes, Hospitals

Tsinghua University Press (TUP), founded in 1980, is an advanced university press formed by Tsinghua University and administered by the Ministry of Education. It specializes in publications in computer science and information technology, physics and engineering, management, social science, foreign language instruction, and basic education as well as audio-video products. TUP also publishes print and on-line periodicals and professional websites which form its own modern multimedia system.

The Architectural Design and Research Institute of Tsinghua University (THAD) was founded in 1958. It is an A-level national architectural design and research institute which mainly undertakes such engineering design and consulting assignments as public and civil architectural project designs, urban designs, the protection of cultural relics and ancient buildings, and scenic and indoor design. Several masterpiece projects have been designed and constructed--the Beijing Ju'er Hutong Residential Area, the Tsinghua University

Library, Beijing's Tiaoqiao Theater and the National Art Museum rehabilitation project. THAD also undertook the design work of some 2008 Beijing Olympic Games venues and buildings, including the Shooting Range Hall, the Beijing Shooting Range Clay Target Field, and the Judo and Taekwondo Gymnasium. THAD has won many prizes, including the Advanced Collective Award for their Olympic projects construction in Beijing.

The Urban Planning and Design Institute, Tsinghua University, was awarded class A qualification in urban planning, tourism planning, investigation and design of cultural heritage conservation projects and buildings. It is composed of several professional planning departments including the Department of Comprehensive Planning, the Department of Detailed Planning, the Department of Landscape Planning and Design, the Department of Landscape and Tourism Planning, the Department of Transportation Planning, the Department of Urban Lighting, the Department of Environment and Infrastructure, the Department of ECO-Planning and Green Building, and the Department of Energy System Planning.

The First Hospital of Tsinghua University (Beijing Huaxin Hospital) has several first-class medical centers, such as the Heart Disease Center, Urology Center, and Digestive Medical Center. Now, the hospital is gaining more attention at home and abroad due to its advanced medical capabilities and innovative equipment used in diagnosing and treating cardiovascular diseases, urinary diseases, digestive system diseases, and diseases of newborns. In particular, the hospital's research into the outcome of surgery and treatment of complex and severe congenital heart diseases has been widely recognized as pioneering throughout the world.

Yuquan Hospital in Beijing, Tsinghua University's second hospital, has several first-class medical centers, including a Neurological Center and a Gynecological and Obstetrical Center. Yuquan Hospital is advanced in the fields of functional neurosurgery, spinal neurosurgery, gynecology, and psychology.

The Campus

The garden-like campus of Tsinghua features beautiful natural scenery of trees and lakes covering a total area of 384.2 hectares. The construction area of the university is 1.957 million square meters. Old and historic structures and modern buildings stand side-by-side on the well-tended grounds.

The University has a comprehensive range of teaching and housing facilities. Among the teaching buildings, Teaching Building Six covers a construction area of over 34,000 square meters with capacity for 7,500 students. There are 18 dining halls on campus, including one of the largest student dining halls in China. By the end of 2008, there were over 44,340 arbors, over 184,500 bushes, over 86,700 bamboo, over 32,400 flowers, and about 240 ancient trees on campus. There are over 810 varieties of trees on campus. The vegetation rate is 54.8 percent.

Center for Student Cultural Activities

The Center for Student Cultural Activities has a floor space of over 4,000 square meters and contains special classrooms for teaching music, art and dance, an exhibition hall, a lecture hall, a performance hall, and more than 40 music practice rooms. Many student literary and arts clubs conduct their activities here.

Sports Center

The gymnasium covers 12,600 square meters and seats 5,000. Some important sports competitions, performances, meetings, and physical education activities are held here. It is also where the Tsinghua Student Sports Team trains and where students go for daily exercise. It served as a training venue for the 2008 Beijing Olympic Games basketball competition and the 2008 Paralympic wheelchair basketball competition.

Natatorium

The Natatorium covers 9,400 square meters and meets international standards for swimming and diving. The Natatorium and Sports Center together hosted the diving and basketball competitions of the 21st World University Games held in Beijing. The Natatorium served as a training venue for the Water Polo and Diving competitions in the 2008 Beijing Olympic Games.

Tsinghua Zijing (Redbud) Student Dormitory

Tsinghua Zijing (Redbud) Student Dormitory covers an area of 370,000 square meters and is now one of the biggest-scale modern university student dormitories in China. The Redbud student housing district provides a complete range of services including four modern student dining halls, a supermarket, bank, post office, bookshop, barber shop, digital express, and various sports yards. It provides a comfortable living environment for the students.

Tsinghua University Education Foundation

The Tsinghua University Education Foundation is a national corporate organization set up in 1994 with the approval of the Ministry of Civil Affairs of the People's Republic of China and the Head Office of the People' s Bank of China. It aims to promote friendly exchanges and cooperation between donors and Tsinghua University in order to serve Tsinghua's development. In February of 2008, the Foundation was named as a 4A Public Welfare Organization in China.

The Foundation's sources of funds are: donations from foreign organizations, institutions and enterprises; donations from domestic enterprises, institutions, social bodies and other organizations; and donations from people in China and other countries who take a keen interest in the development of Tsinghua University. The Foundation's funds are mainly used to: finance international exchanges and cooperation; provide financial support to institutions, publications, conferences and activities related to education and research; establish scholarships to help train qualified personnel; award faculty members who have made outstanding contributions in teaching and research; and improve teaching conditions in the form of new buildings, equipment, and books.

Tsinghua Alumni Association

Known as the Union of Tsinghua Schoolmates when it was founded in 1913 and later as Tsinghua Schoolmates Union in 1933, the group resumed in 1981 under the name of the Tsinghua Alumni Association. Professor Gu Binglin, President of Tsinghua University, is now President of the Association. The mission of the Tsinghua Alumni Association is to build networks to connect alumni and their alma mater and to provide valued services to the university, to alumni, and to students. The Association publishes the Tsinghua Alumni Gazette and Tsinghua People, an alumni website (http://www.tsinghua.org.cn). The programs and services offered by the Tsinghua Alumni Association include organizing alumni gatherings, organizing the annual alumni donation drive, and issuing the Alumni Credit Card, organizing alumni forums in various fields, and raising the Alumni Incentive Stipend and other special funds. Currently, the Tsinghua Alumni Association maintains close contact with more than 140 local Tsinghua alumni organizations across China and with more than 50 overseas organizations.

Appendix

Academic Degrees

1. Engineering

Aeronautical and Astronautical Science and Technology (M)
Architecture (M, PhD)
Biomedical Engineering (M, PhD)
Chemical Engineering and Technology (M, PhD)
Civil Engineering (M, PhD)
Computer Science and Technology (M, PhD)
Control Science and Engineering (M, PhD)
Electrical Engineering (M, PhD)
Electronic Science and Technology (M, PhD)
Environmental Science and Engineering (M, PhD)
Geodesy and Survey Engineering (M)
Hydraulic Engineering (M, PhD)
Information and Communication Engineering (M, PhD)
Instruments Science and Technology (M, PhD)
Management Science and Engineering (M, PhD)
Materials Science and Engineering (M, PhD)
Mechanical Engineering (M, PhD)
Mechanics (M, PhD)
Nuclear Science and Technology (M, PhD)
Optical Engineering (M, PhD)
Power Engineering and Engineering Thermophysics (M, PhD)
Transportation Planning and Management (M)
Safety Technology and Engineering (M)

2. Science

Astrophysics (M, PhD)
Biology (M, PhD)
Chemistry (M, PhD)
History of Science and Technology (M)
Marine Biology (M, PhD)
Mathematics (M, PhD)
Physics (M, PhD)

3. Arts

Art (M, PhD)
Chinese Literature (M, PhD)
English Language and Literature (M, PhD)
Japanese Language and Literature (M)
Journalism and Communication (M, PhD)
Linguistics and Applied Linguistics in Foreign Languages (M)

4. Management

Business Administration (M, PhD)
Management Science and Engineering (M, PhD)
Public Management (M, PhD)

5. Economics

Applied Economics (M, PhD)
Theoretical Economics (M, PhD)

6. Education

Applied Psychology (M)
Education Technology (M)
Higher Education (M, PhD)
Human and Sociological Science of Sports (M)
Human Movement Science (M)
Theory of Sports Pedagogy and Training (M, PhD)

7. Philosophy

Philosophy (M, PhD)

8. History

History (M, PhD)

9. Law

Science of Law (M, PhD)
Marxist Theory (M, PhD)
International Relations (M, PhD)
Sociology (M, PhD)

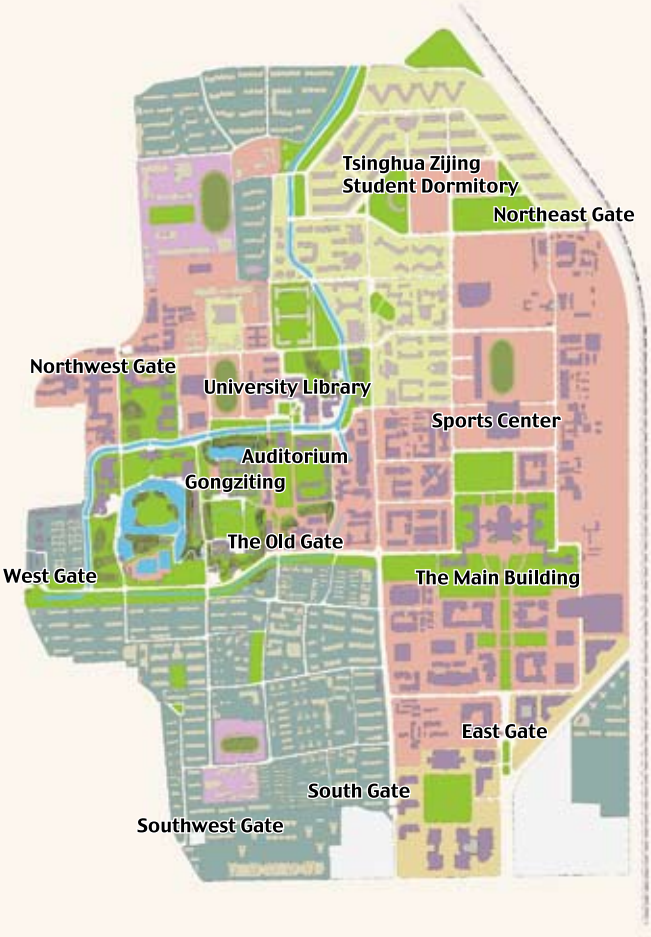
10. Medicine

Internal Medicine (M)
Surgery (M)
Pharmacology (M)

Professional Degrees

Juris Master (JM)
Master of Engineering
Master of Architecture
Master of Business Administration (MBA)
Master of Public Administration (MPA)
Master of Professional Accounting (MPAcc)
Master of Fine Arts (MFA)
Master of Sports
Master of Landscape Architecture (MLA)

Tsinghua University Campus Map



- Student Living Area
- Faculty Living Area
- Teaching and Administrative Area
- Green Area
- Tsinghua Science Park

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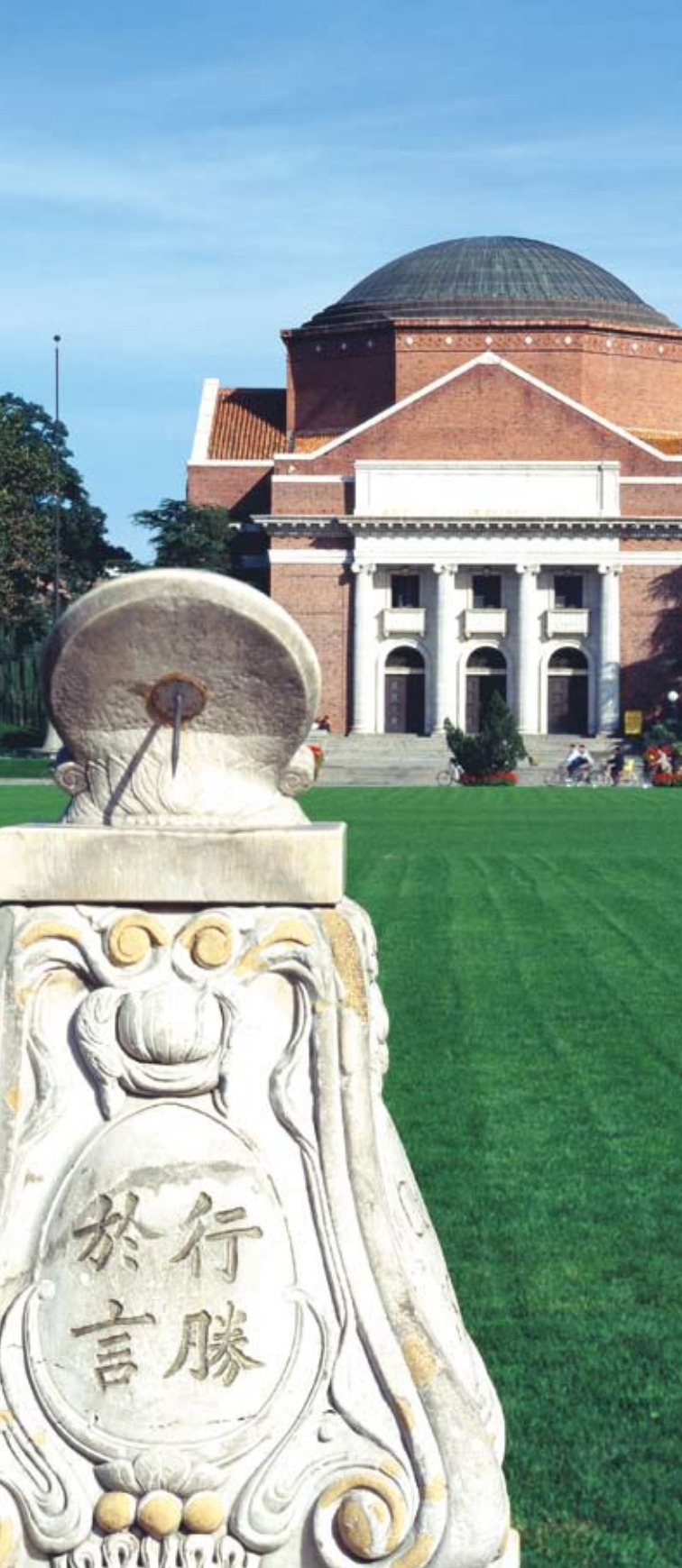
Photographer: Guo Haijun
Translator: Li Han
Printed by: Beijing Prosperous Advertisement Co. Ltd.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