北京科技大学
University of Science and Technology Beijing

Chief Planner : Office of the President, USTB
Resources from the USTB Career Development Bulletin
Produced by the Office of International Affairs, USTB
Editor : CHEN Shiqi　LI Xuewei
Photos Provider : GAO Yan　WANG Zhankui
Translator : HOU Xiaoqing　XIE Xue'e
Reviser : Matthew Surey

Address：30 Xueyuan Road, Haidian District, Beijing, China
Zip code：100083
Website：www.ustb.edu.cn

GUIDEBOOK

University of Science and Technology Beijing >>>

CONTENTS

About USTB

The University of Science and Technology Beijing is an academic institution dedicated to achieving excellence in teaching and research, preparing its students to take on the challenges of the 21st century. Here students and teachers work together, alongside our many partners in private industry and academic institutions, to engage in cutting-edge research, particularly in the fields of materials science and engineering, metallurgical engineering, and mining engineering. With the motto of “seeking truth and promoting innovation” , USTB is committed to providing high-quality education and real-world opportunities to future generations of scholars and industry innovators.

About USTB

Chancellor: Mr. Wu Guilong

President: Prof. Yang Renshu

Officially founded in 1952, known first as the Beijing Institute of Iron and Steel Technology, USTB can trace its roots back to the 1895 when the first mining and metallurgy disciplines in the history of modern China were founded at the Beiyang Western Academy. In 1952, the Beijing Institute of Iron and Steel Technology was formed by bringing together the departments of six famous universities, including those from Tsinghua University and Tianjin University. Since then it has developed into a national key university under the leadership of China's Ministry of Education, with the coordinated development of its engineering, science, management, culture, economics, and law departments, as well as other disciplines. USTB is one of the first institutions of higher education in the country to formally establish a graduate school. In May 1997, USTB joined the national “211 Project”. In 2006, USTB was selected to be part of the “985 Project” for the Platform of National Advanced Disciplines Innovation. In 2014, the “Collaborative Innovation Center of Steel Technology” led by USTB was selected to be part of the national “2011 Plan”. In 2017, USTB was selected as a “Double First-Class” university.

For 68 years, with the mission of "iron and steel power, rejuvenating the nation through science and education”, USTB has followed the tradition of being "rigorous academic atmosphere, advocating practice" and "seeking truth and innovation". More than 200,000 alumni in various fields have entered society, some of whom have become pillars of national politics, economics, science and technology, and education, especially in the fields of metallurgy and materials. Thirty-nine alumni have been elected as academicians of the Chinese Academy of Sciences and the Chinese Academy of Engineering. A large number of alumni have become regional leaders such as governors and mayors, and a large number of alumni have served as chairmen or general managers in national industries. As a result, USTB has become known as “the cradle of iron and steel engineers”.

USTB now has 20 first-level doctoral programs, 30 first-level master's degree programs. Under these first-level programs, there are 80 doctoral degree specializations and 138 Master's degree specializations.There are 15 professional degree authorized programs including MBA (including EMBA), MPA, Juris Master, Master of Professional Accounting, Master of Translation and Interpreting, Master of Social Work, Master of Cultural Heritage and Museology, and Master of Engineering, as well as 17 postdoctoral research mobile stations and 53 undergraduate majors. USTB has 26,755 full-time students, of which 13,835 are undergraduates, 8,220 are master students, 3,895 doctoral students, and 804 are international students.

USTB ’s four key disciplines (Metallurgical Engineering, Materials Science and Engineering, Mining Engineering, History of Science and Technology) are well-known at the national academic level. The university entered into the national world-class discipline construction ranks in 2017; in the fourth round of subject assessments, Metallurgical Engineering and the History of Science and Technology were ranked as A+, and Materials Science and Engineering was ranked as an A. In 2019, Safety Science and Engineering, Artificial Intelligence Science and Engineering were selected as top disciplines in the Beijing universities construction.

USTB continues to expand both its social services and working partnerships. We have signed comprehensive cooperative agreements with more than 180 provincial and municipal governments, large enterprises and institutions. At the same time, focusing on the forefront of the world, we have strengthened international cooperation and successively established relationships with 220 overseas universities and scientific research institutions, such as the RWTH Aachen University in Germany, the University of Oxford in the UK, and the University of Illinois at Urbana-Champaign in the United States, carrying out substantive cooperation with each institution.

Today, the faculty and students of the University of Science and Technology Beijing are in full of confidence of the development of China, and are working together toward the goal of "building USTB into a distinctive, first-class, internationally renowned high-level research university".

History of USTB

Main Campus
Xueyuan Road, Haidian District, Beijing

Changping Innovation Park
Kunlun Road, Changping District, Beijing

Xisanqi Campus
Jiancai East Road, Haidian District, Beijing

Guanzhuang Campus
Guanzhuangbei Yili, Chaoyang District, Beijing

Beijing

Tianjin

Tianjin College
Beijing-Tianjin New Town, Baodi District, Tianjin

1952

Departments from Tianjin University, Tsinghua University, Tangshan Railway Institute, Shanxi University, Beijing Institute of Technology, and Northwest Institute of Technology were reorganized to form the Beijing Institute of Iron and Steel Technology

1960

Renamed as "Beijing University of Iron and Steel Technology" and became a key national institution

1984

One of the first 22 colleges and universities to pilot graduate schools in China

1988

Renamed as "University of Science and Technology Beijing"

1997

Among the first group of universities to be part of China's "211 Project"

2006

One of the few pilot universities selected for the "Platform for National Advanced Disciplines Innovation"

2014

Collaborative Innovation Center of Steel Technology led by USTB was selected to be part of the national "2011 Plan"

2017

Selected as a national "double-first class" university to develop the History of Science and Technology, Materials Science and Engineering, Metallurgical Engineering, and Mining Engineering into internationally top ranked disciplines

2018

The State Administration of Science, Technology and Industry for National Defense joined with the Ministry of Education to supervise and assist USTB in its further development.

Foshan

Shunde Graduate School
Zhihui Road, Daliang, Shunde District, Foshan City, Guangdong Province

Colleges & Departments

When it was first established in 1952, USTB was dedicated to the study and application of materials to serve the nation. Today, while the university continues to maintain a strong engineering focus, it has also grown into a multi-disciplinary institute that awards undergraduate and advanced degrees in a wide-array of majors. As the university continues to lead the world in disciplines including metallurgical engineering, it is also dedicated to developing strong programs in the humanities and social sciences, law, economics and business.

UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING

School of Civil and Resources Engineering

- Department of Resources Engineering
- Department of Civil Engineering
- Department of Safety Science and Engineering
- Department of Mineral Processing Engineering
- Department of Building Environment and Energy Engineering
- Institute of Applied Mechanics
- Research Institute of Macro-safety Science
- Institute of Deep Rock Engineering
- Research Institute of Urbanization and Urban Safety

School of Metallurgical and Ecological Engineering

- Department of Ferrous Metallurgy
- Department of Non-ferrous Metallurgy
- Department of Physical Chemistry of Metallurgy
- Department of Ecological Science and Engineering
- Research Center for Carbon Dioxide

School of Materials Science and Engineering

- Department of Materials Science and Engineering
- Department of Materials Processing and Control Engineering
- Department of Material Physics and Chemistry
- Department of Inorganic Non-metallic Materials
- Institute of Nuclear Materials (INM)

School of Mechanical Engineering

- Department of Mechanical Engineering
- Department of Mechanical Manufacturing and Automation
- Department of Mechatronic Engineering
- Department of Mechanical Equipment and Control Engineering
- Department of Vehicle Engineering
- Department of Logistics Engineering
- Department of Industrial Design
- Research Center of Part Rolling
- Innovation Institute for Intelligent Robot , USTB (Affiliated)

School of Energy and Environmental Engineering

- Department of Thermal Science and Energy Engineering
- Department of Environmental Science and Engineering
- Engineering Research Center for Environment and Energy Conservation

School of Automation and Electrical Engineering

- Department of Control Science and Engineering
- Department of Instrumentation Science and Technology
- Department of Intelligent Science and Technology
- Department of Electrical and Electronic Technology
- Institute of Automatic Control
- Institute of Navigation and Control

School of Computer and Communication Engineering

School of Mathematics and Physics

- Department of Applied Mathematics
- Department of Information and Computer Science
- Department of Physics
- Institute of Applied Mathematics
- Department of Applied Physics
- Modern Physics Technology Research Center
- Institute of Applied Physics
- Institute of Applied Mathematics
- Institute of Theoretical Physics

School of Chemistry and Biological Engineering

- Department of Chemistry and Chemical Engineering
- Department of Bioscience and Bioengineering
- Research Center for Bioengineering and Sensing Technology (Affiliated)
- Academy of Precision Medicine and Health (Affiliated)
- The Institute of Solid State Chemistry
- Daxing Research Institute
- Pesticide Residues and Environmental Toxicology Laboratory (affiliated)

School of Economics and Management

- Department of Computer Science and Technology
- Department of Communication Engineering
- Department of Internet of Things and Electronic Engineering
- Department of Information Basic Sciences
- Institute of Software Engineering and Cyberspace Security

School of Humanities and Social Science

School of Marxism Studies

- Institute of Ideological Education
- Institute of Basic Marxist Philosophy
- Institute of the Sinicization of Marxism
- Institute of History and Culture
- Institute of Science, Technology and Society
- Research Institute of Party Construction
- Center of University Ideological and Political Work Team Training and Research of University of Science and Technology Beijing

School of Foreign Studies

- Department of English Language and Literature
- Department of Undergraduate English
- Department of Graduate English
- Department of Japanese Language and Literature
- Institute of Foreign Languages and Literature
- Department of German Language and Literature
- Research Center for Functional Linguistics
- Research Center for Contemprory Language Science
- Research Center for World Literature and Culture

School of Advanced Engineering

- Department of Management Science and Engineering
- Department of Engineering Management and Technology Economics
- Department of Business Administration
- Department of Finance and Accounting
- Department of Economics and Trade
- Department of Financial Engineering
- Research Center of Futures and Securities
- Institute of Management Science
- Institute of E-commerce
- Institute of Enterprise and Industry Development
- Institute of Big Data and Science
- Research Center for Iron and Steel Industry Policy and Management
- MBA Center
- Engineering Research Center of MES

Guanzhuang Campus

- Department of Public Administration
- Department of Law
- Department of Sociology
- MPA Education Center
- Juris Master（JM）Education Center
- Research Center for Intellectual Property
- Institute of Education Economics and Management
- Research Center for Ideological and Polical Theory Courses
- Humanistic Quality Education Center (Affiliated)

Department of Sports

Institute of Cultural Heritage and History of Science & Technology

State Key Laboratory for Advanced Metals and Materials

State Key Laboratory of Advanced Metallurgy

Institute for Advanced Materials and Technology

Institute of Engineering Technology

National Center for Materials Service Safety

Collaborative Innovation Center of Steel Technology

Beijing Advanced Innovation Center for Materials Genome Engineering

Institute for Multidisciplinary Innovation

Shunde Graduate School

Tianjin College

Institute of Artificial Intelligence

Discipline Overview

USTB is one of the first batch of national first-class discipline construction universities. While putting major effort on the construction of first-class disciplines, USTB promotes the development of related disciplines and interdisciplinary disciplines, laying out the construction and development of new fields such as artificial intelligence, and promoting the establishment of a complementary faculty system, thus constituting a comprehensive structure featuring "prominent strengths, distinctive features, reasonable structure and a balanced multidisciplinary development".

World-class Discipline Construction

- History of Science and Technology
- Metallurgical Engineering
- Materials Science and Engineering
- Mining Engineering

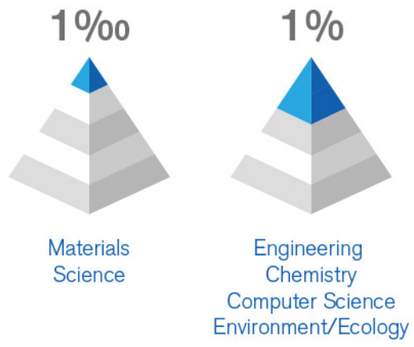
USTB National & International Rankings

	National Rankings	International Rankings	
QS WORLD UNIVERSITY RANKINGS	21	446	QS World University Rankings 2021
THE WORLD UNIVERSITY RANKINGS	51	800-1000	Time Higher Education World University Rankings 2021
BEST GLOBAL UNIVERSITIES U.S.News	38	494	U.S.News World University Rankings 2021
SHANGHAI RANKING 软科	33	201-300	ShanghaiRanking's Academic Ranking of World Universities 2021

Global Top Disciplines

According to the ESI data, USTB's materials discipline has entered the world's top 1 ‰ , while engineering, chemistry and computer fields continue to occupy the top 1%. The discipline of Environment/Ecology also entered the top 1% for the first time, and the top 1% of ESI's global institutional disciplines reached 5.

17 USTB disciplines were listed in the "ShanghaiRanking' s Global Ranking of Academic Subjects". The discipline Metallurgical Engineering was ranked first in the world.



ARWU Ranking

- Metallurgical Engineering
  Global Top 1 (2017-2020)
- Mining Engineering
  Global Top 1 (2017)

QS Ranking（Global Top 2%）

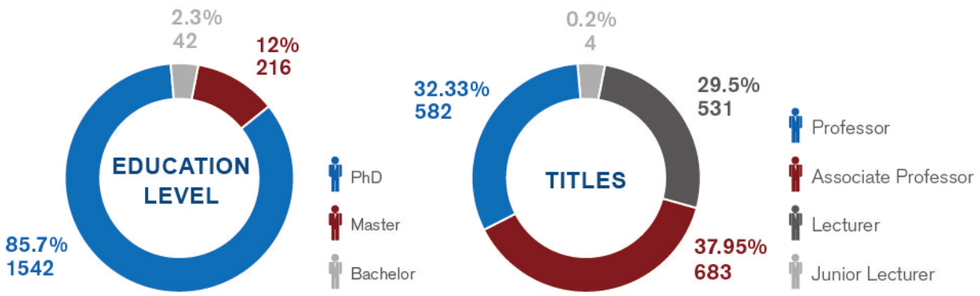
- Artificial Intelligence
- Control Science and Engineering
- History of Science and Technology
- Materials Science and Engineering
- Metallurgical Engineering
- Mining Engineering

Faculty

USTB boasts a faculty that adheres to a strict code of academic conduct and ethics, insists on educating students with high ideals, good morality, and acting as a role model for students to inspire innovation, develop good character, dedicate themselves to knowledge, and support the nation. In recent years, USTB has vigorously implemented the strategy of strengthening its academic competence with talented experts specializing in a variety of fields from both home and abroad. In the meantime, it has been constantly strengthening the ideological and political work of the faculty and of their ethics. We strive to build a high-level faculty based upon academic excellence and innovative professional work, with a solid structure and high vitality.

Faculty Data

Number of Faculty in 2020 **1800**



Distinguished Faculty

Academicians of the Chinese Academy of Sciences

Prof. Zhou Guozhi

Prof. Chen Nanxian

Prof. Ge Changchun

Prof. Zhang Yue

Academicians of Chinese Academy of Engineering

Prof. Hu Zhenghuan

Prof. Wang Yide
(Double Appointment)

Prof. Cai Meifeng

Prof. Wang Haizhou
(Double Appointment)

Prof. Xie Jianxin

Prof. Mao Xinping

Prof. Yue Qingrui

Professor Mao Xinping, Academician of the Chinese Academy of Engineering

Professor Mao Xinping, born in 1965, is a professor and doctoral supervisor at University of Science and Technology Beijing. In 2006, he received his doctoral degree. He was chief engineer at the Guangzhou Zhujiang Iron & Steel Co., Ltd., executive vice president of the Wuhan Iron & Steel (Group) Company and vice president of the Baowu Group Baosteel Central Research Institute. He was elected as an Academician of the Chinese Academy of Engineering in 2015 and employed as a tenure-track professor at USTB in October 2019. He is currently the director of the National "2011 Plan" for the Collaborative Innovation Center of Steel Technology.

He serves as chairman of the China Marine Materials Industry Technology Innovation Alliance, chairman of Near Net-shape Production branch of the Chinese Society for Metals, standing director of the Low Alloy Steel branch of Chinese Society for Metals, director of the Steel Rolling branch of the Chinese Society for Metals, and editorial board member of the Journal of Iron and Steel Research and Iron and Steel, etc.

Professor Mao Xinping has long been engaged in the research and industrialization of net-shape production technology and advanced steel materials. He has won 3 second prizes of the National Science and Technology Progress Award, 8 first prizes of the Science and Technology Progress Award at the provincial and ministerial level, 1 silver place for the National Excellent Engineering Design Award, 1 China Patent Excellence Award, has published 3 monographs and more than 160 papers, and filed more than 60 patents, and his books were selected to be part of the "Three One Hundred" Original Books Publishing Project and "12th Five-Year" National Key Books. He has won the National May 1st Labor Medal, National Model Worker, Guanghua Engineering Science and Technology Youth Award, the Science and Technology Innovation Award Sponsored by He Liang He Li, the First Outstanding Engineer Award, and the Wei Shoukun Metallurgical Youth Award.

Project Achievement of the 13th Five Year Plan National Key Research and Development Program

2000MPa Bridge Cable Demonstration Project – Shanghai – Nantong Yangtze River Bridge

Project Achievement of the 13th Five Year Plan National Key Research and Development Program

690MPa Bridge Cable Demonstration Project – No. Seven Han River Bridge

Professor Zhang Yue, Academician of the Chinese Academy of Sciences

Professor Zhang Yue, born in 1958, is a professor of USTB. He received his Ph.D in 1993 and became a professor of USTB in 1995. From 2000 to 2003, the Anthony Mason Fellowship, JSPS and China Scholarship Council funded his cooperative research in Australia, Japan and the United States. He is the Fellow of the Royal Society of Chemistry, the distinguished young scientist supported by National Natural Science Foundation of China, and the chair scientist of National Major Scientific Research Plan and Project. He has been nominated as a member of MSE group of the disciplinary appraisal panels in the Academic Degrees Committee of the State Council, a member of general expert group of the National Key Research and Development Program on nanoscience and nanotechnology, a member of expert group of the Central Military Commission on novel military energy technology, a member of International Cooperation Department from Science and Technology Committee of the Ministry of Education. He has also served as the director of Beijing Municipal Key Lab for Advanced Energy and Nanotechnology, the co-chairman of Chinese Society of Stereology and the president of Materials Science Society of Chinese Society of Stereology, the executive director of the Chinese Society of Metals and the president of Materials Science Society of Chinese Society of Metals. Besides, Prof. Yue Zhang is in the editorial board of 9 international journals including “Journal of Nano Research” , “Science Bulletin” and “Science China Materials” . He was elected as an Academician of the Chinese Academy of Sciences in 2019.

Prof. Yue Zhang has devoted his research life to low-dimensional semiconductor materials as well as their service behaviors. Towards major national defense needs, he has committed to make systematic and innovative contributions on fundamental theory, processing technology and engineering applications. He has presided more than 60 projects including National Major Scientific Research Plans, National Key Scientific Research Programs, National Major Scientific Instrument Construction Programs, Giant Projects and Key Programs of the National Natural Science Foundation of China, Major International Cooperation and Exchange Projects from the Ministry of Science and Technology of China and the National Natural Science Foundation of China, and national defense military projects. He has published more than 400 SCI papers on top journals like Nat Energy., Nat. Commun., Sci Adv., Adv Mater., Phys. Rev. Lett., and acquired more than 10000 citations. He has been granted more than 50 patents, authored and published 7 Chinese monographs and 4 English monographs. He has won a Second Class National Natural Science Award, 3 first class prizes and 2 second class prizes of provincial and ministerial-level scientific and technological awards as the first contributor. He has cultivated nearly 200 post-doctoral and doctoral graduate students.

Cold Cathode Based on Low Dimensional Nano-Materials

Talent Cultivation

USTB adheres to its core objectives of education and talent cultivation by strengthening undergraduate education and deepening the reform of postgraduate training, and is committed to cultivating students with sound personality, a strong sense of social responsibility and solid academic background as well as strong practical abilities. We strive to imbue our students with an innovative spirit, entrepreneurial awareness and international vision.

USTB is part of the first batch of 10 colleges and universities to carry out the "Three Aspects of Education" comprehensive reform plan. It aims to promote the education of students and educators in accordance with core socialist values and political ideology.

BUILD CONSENSUS

Strengthen education and talent training, carry out exchanges, establish responsibilities, and form ideological consensus

FOCUS ON INTEGRATION

Establish system standardization, establish reforms of disciplines, classroom teaching, text books, and management

STRENGTHEN COORDINATION

Establish and improve systems including "coordinated teaching assistance", second-class transcripts, joint student affairs, and mechanisms for enrollment, training, and employment

SCIENTIFIC EVALUATION

Construct an education-oriented teacher honor system, develop a student evaluation system to adhere to "Knowledge + Ability + Morality", and explore the establishment of a work index system for the "Three Aspects of Education"

SCIENCE AND EDUCATION COORDINATION

Strengthen the construction of ideological and political courses, and accelerate reform; promote the coordination of science and education, and build a scientific research education initiative

MANAGEMENT AND SERVICE

Improve management and service standards, implement plan to improve the capacity of personnel, build a first-class team, establish a first-class style, and strive for first-class service

CULTIVATE PEOPLE THROUGH CULTURE

Implement the strategy of promoting culture and give play to the role of cultural education

CULTIVATE PEOPLE THROUGH PRACTICE

Construct a full-process, three-tiered comprehensive educational system
Educate students and develop talents through more systematic practice

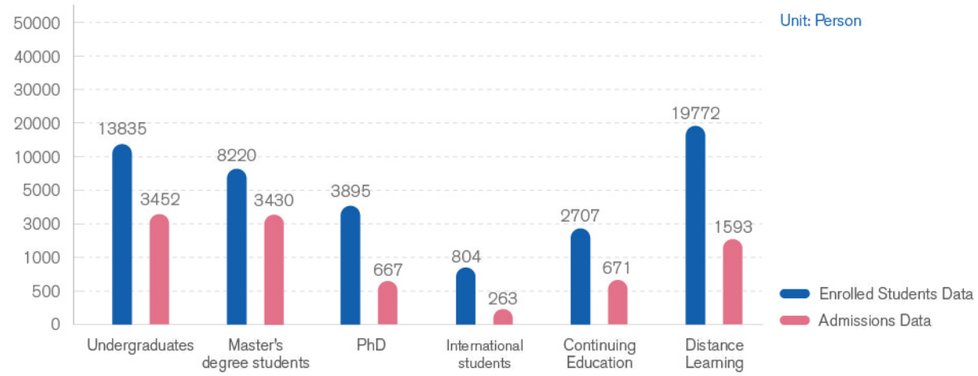
CARE FOR STUDENTS

Promote the comprehensive healthy development of students
Implement a tutor system for undergraduates to enhance students' sense of belonging

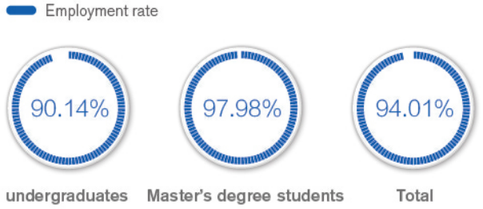
Student Profile

It has developed a multi-level and integrated college system that provides graduate education, undergraduate education, international students education, adult education, continuing education and distance education.

Freshman Data



Graduate Employment Data



The number of graduates entering the top 500 companies has increased significantly compared with 2018, and the proportion of graduates serving key areas of the state and universities has also increased.

Percentage of Undergraduates Pursuing Postgraduate Education

The postgraduate enrollment rate of USTB undergraduates increased 3.56% over the last year, and many students with excellent grades have been recommended for admission to Tsinghua University, Peking University, the Chinese Academy of Sciences and other famous institutions for further education. Students who choose to study abroad mainly go to the United States, Britain, Germany, Australia, Japan and elsewhere, at famous schools including Harvard University, MIT, Stanford University, University of Cambridge, RWTH Aachen University, Tohoku University, etc.

55.58%

2020 Percentage of Undergraduates Pursuing Postgraduate Education

Teaching and Education

Undergraduate Teaching and Education

USTB adheres to the "undergraduate-oriented" principle to be implemented in four ways: deepen the comprehensive reform in undergraduate education, implement reform of the diversified talent training model, the subjective classroom model, and the student-based management system, so as to improve the quality of undergraduate students.

Following the tradition of being dedicated to practice and promoting the integration of Industry–Academia-Research, USTB has made great efforts to promote postgraduate classification training reform. We have also established a multi-level, multi-form postgraduate recruitment and training system including full-time academic degree, full-time professional degree, part-time professional degree, executive MBA (EMBA), Hong Kong, Macao and Taiwan graduate students etc. In this way, the quality of cultivated talents has been continuously improved.

PhD Graduate

417

2020 PhD Publications

SUM 1563

3.41 per student

Nature/Science: 1

Scholarship Award Coverage

100%

◎ Build a Diversified Cultivation of Talents and Professionals

- $E=MC^2$ Experimental Class in Science
- Experimental Class in Materials Science and Engineering
- Excellent Engineer Training Program
- Huang Kun Class
- Nano-materials Class
- Min Sihe Mathematics Elite Program

In recent years USTB has worked to address curriculum construction as the core, giving full play to the important role of classroom teaching in cultivating students' quality and ability. This has been accomplished by starting research-based teaching model class, all-English teaching model courses, core courses for Competence Education and the construction of MOOC.

233 Total
Research-based Model Courses

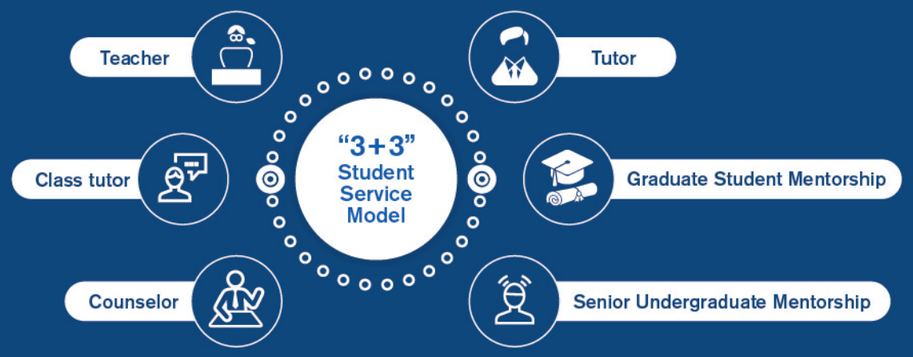
76 Total
All-English Teaching Model Courses

74 Total
Core Courses for Competence Education

71 Total
MOOC
MOOC USTB

◎ Implementation of Undergraduate Whole Course Mentor System

This system aims to realize the “one drop, two rise, and three fulfillment” goal (that is, reduce the rate of students' failing their exams, raise the rate of graduating students' further study and employment, and improve the satisfaction of students, parents, teachers, USTB and society).



International Cultivation of Students

USTB have constructed a diversified multi-level "overseas learning and exchange platform" for students, including intercollegiate exchanges, joint training, degree study and study abroad programs, so as to further the international training of students.

International Teaching System

USTB has constructed a layered and multi-entrance English curriculum system, organized summer English camps, and invited foreign experts and scholars to our university and set up courses with English as the instructive language.

English Summer Camp

9 Foreign Experts

600 Students

Foreign Expert Courses

courses **14**

Students **465**

Undergraduate Students Overseas Exchange

Russia
- National University of Science and Technology

South Korea
- Seoul National University

Japan
- Waseda University ■ ★ △
- Hokkaido University ★
- Tohoku University ■

USA
- University of Illinois at Chicago △
- University of California, Berkeley ★ △
- Yale University ★
- University of California, Los Angeles ★ △

UK
- University of Dundee ★ △
- Oxford University ★
- University of Cambridge ★
- The University of Edinburgh ★

The Netherlands
- Leiden University ◀

Germany
- Heidelberg University ★
- RWTH Aachen University ★ ○
- Humboldt-Universität zu Berlin ★

Belgium
- Katholieke Universiteit Leuven ○

France
- Tours University ○
- Université de Toulouse 1 Capitole ○
- Université d'Orléans ◀

Taiwan, China
- Taiwan University ◀

Australia
- University of Queensland △
- The University of New South Wales △

Singapore
- National University of Singapore ★ △

Hong Kong, China
- The Hong Kong University of Science and Technology ★

△ Joint training (57 students)
◀ Exchange Programs (81 students)
○ Master's Programs (25 students)
★ Seminar training (264 students)
■ Visiting Programs (127 students)

Above is a selection of cooperative exchanges

Overseas Programs for Postgraduate Students

Category	Country/Region	Number	Remarks
Joint Training of Doctoral Students	USA UK Canada Australia Singapore Germany Denmark Czech Republic Norway Portugal Sweden	48	Supported by the China Scholarship Council and State-Sponsored Scholarship Program
PhD Students	Japan Germany UK Netherlands Austria Ireland	13	Supported by the China Scholarship Council and State-Sponsored Scholarship Program
Doctoral Students Participating in International Conferences	Netherlands Australia Brazil Belgium Germany Russia France Denmark South Korea Canada USA Japan Sweden Spain Singapore New Zealand UK Hong Kong, China Taiwan, China etc.	70	Supported by the Program for Innovative Talent Cultivation
Doctoral Students' Short-term Visiting Abroad Programs	Ireland Australia Belgium Russia Canada USA Japan UK Hong Kong	16	Supported by the Program for Innovative Talent Cultivation

International Student Education

In 2019, there were 976 international students. USTB continues to develop study abroad programs and strengthen the construction of its English-language course selection for students studying in China. In 2019, 45 new English-language courses for international students were introduced.

3 Natural Sciences

18 Engineering and Technology

24 Humanities and Society

USTB continues to focus on academic excellence, cultural exchanges, practical applications, employment and comprehensive entrepreneurship training, pay more attention to campus culture, integrate into the community, invest in grass-roots activities, and serve society. In 2019, USTB organized 78 activities with 15,390 students participating.

20 Academic Excellence

26 Cultural Exchange

15 Practical Perception

17 Employment & Entrepreneurship

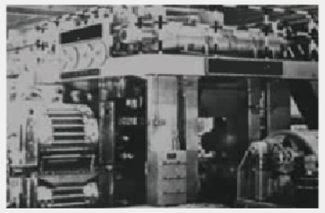
USTB' s international students adhere to the spirit of mutual exchange and learning for the purpose of strengthening community integration. 40 international students and 6 teachers from the International Student Center participated in the mass parade "Community with a Shared Future for Mankind" on the 70th anniversary of China' s National Day celebration.

Research

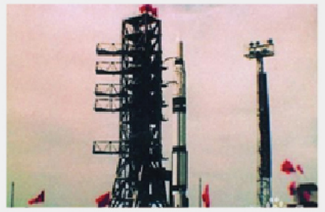
USTB has taken the goal of addressing the country's needs and leading industrial development as its responsibility, promoting scientific and technological innovation and the commercialization of research findings. USTB contributed many "firsts" in Chinese history of science and technology. In recent years, USTB has been holding fast to the strategy of innovation-driven development, promoting the research of technological systems and operational mechanisms in pursuit of significant scientific break-throughs, and moving ahead with cross-synergy and integration, striving to achieve results in key areas, and thus making positive contributions to the building-up of an innovation-oriented country.

Historical “Firsts”

USTB has created many "firsts" in China. In the first 10 years of the "211 Project", it won 4 first prizes for the State Scientific and Technological Progress Award, and ranked first among universities in China.



World's first arc continuous caster



Developed the housing material for the first satellite, Dong Fang Hong I in China

Produced the first home-made large-sized robot in China

2016-2020 Scientific Research Awards

State Natural Science Award
Second Prize: 2

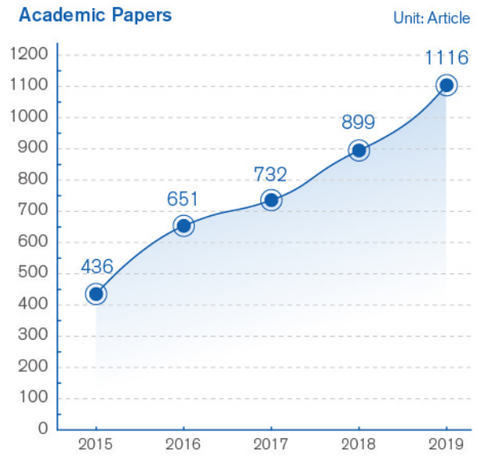
State Science and Technology Progress Award
First Prize: 1, Second Prize: 11

Provincial and Ministerial Science and Technology Awards
Grand Prize: 3, First Prize: 85
Second Prize: 113, Third Prize: 78, Contribution Award: 3

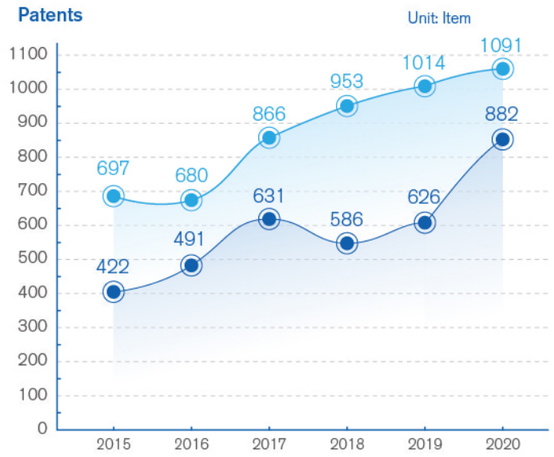
Ho Leung Ho Lee Foundation Science and Technology Progress Award
Prize: 1

State Technological Invention Award
Second Prize: 4

2016-2020 Academic Papers and Patents



Number of SCI Periodicals of Chinese Academy of Sciences ranking above JCR Q2 (included)



Number of Patent Applications
Number of Patents Authorized

Scientific Research Bases

National Science Center
National Center for Materials Service Safety

National Key Labs
State Key Lab for Advanced Metals and Materials
State Key Lab of Advanced Metallurgy

National Engineering Technology Research Center
National Engineering and Research Center for Advanced Equipment of Plate and Strip Production

National Engineering Research Center
State Engineering and Research Center of Efficient Steel Rolling

National Joint International Research Bases
International Joint Research Center for Materials Services Safety
International Joint Science Base for Environment and Energy

"2011 Plan" Collaborative Innovation Center
Collaborative Innovation Center of Steel Technology

National Science and Technology Platforms
National Platform of Field Observation & Scientific Research on Material Environmental Corrosion
Materials Science Data Sharing Network

National Science and Technology Resource Sharing Service Platforms
National Materials Corrosion and Protection Data Center

2019 New Major Research Projects (in recent five years)

Key R&D Programs	27
National Natural Science Foundation Key Projects	42

Innovative Research Group Project (in recent five years)

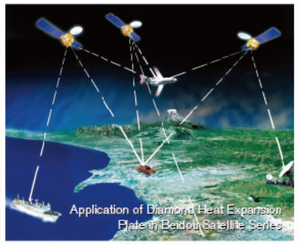
National Natural Science Foundation of China Innovative Research Group Project	1

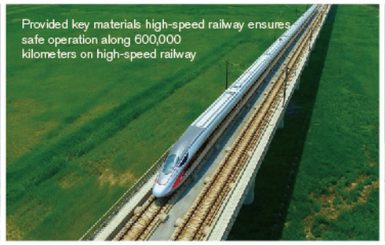
Innovation Team (in recent five years)

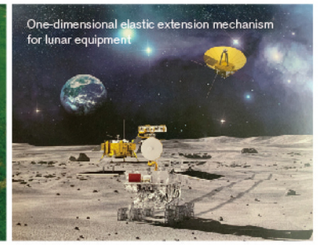
Two teams are selected by Ministry of Science and Technology as leading teams in key national fields.

Social Services

USTB actively promotes the close integration of research, development and production, speeding up the transformation and industrialization of scientific and technological achievements. The university gives full play to the advantages of science and technology, and actively cooperates with government departments, scientific research institutions, and enterprises and public institutions, continuing to expand social services and tap their potential, and promoting upgrading and serve regional economic growth.







Institute of Coastal Collaborative Innovation Research

With institutional mechanism innovation as the core, the Institute actively explores the new pattern of university-institute-enterprise cooperation, so as to build up an innovative new system of talents-research-industry. Meantime, it builds a synergistic innovation zone for the development of coastal regional economy through scientific planning and focused construction of the Institute. The key research institutes include:

Guangzhou New Materials Research Institute

The Institute focuses mainly on advanced material industry, aiming at collaborative production through a system of innovation and entrepreneurship, Now, seven technology innovation centers and one transformation base of scientific and technological achievements have been built, nine industrialization projects have been implemented, six joint-stock scientific and technological enterprises have been built up, along with an advanced material industry investment company, and an innovation alliance among Guangdong, Hong Kong and Macao Bay Area has been established.

Yantai Industrial Technology Research Institute

Focusing on nuclear power and marine engineering, the Institute gives full play to USTB's educational, technological, innovative and talent advantages in the fields of equipment manufacturing, marine engineering, nuclear power, new materials, etc. The Institute has established 5 technological innovation centers and 1 scientific and technological achievement transformation base, implemented 2 industrialization projects, and has taken the lead in 2 key R&D projects in Shandong Province.

Zhongzhi International Institute of Agricultural Biosciences

The Institute is an independent research and development center established with USTB as the main sponsor, as well as being jointly sponsored by a number of leading units in the biological agriculture field. It focuses on the scientific and technological innovative needs of the fields of biological frontier technology, smart agriculture and agricultural food health, carrying out scientific research, technological research and development, product cultivation and industrial transformation.

Local Research Institute

Industrial Technology Innovation Platform

Think Tank

Industry and Regional Economic Services Platform

National University Communist Youth League Research Center

USTB Development Institute of China's "Belt and Road Initiative".

China Steel Industry Innovation and Green Development Think Tank

USTB Technology Industry Group

- National University Science Park
- University of Science and Technology Beijing Emerging Industrial Technology Research Institute
- Design and Research Institute Co., Ltd. of University of Science and Technology Beijing
- University of Science and Technology Beijing Analysis Center Co., Ltd.

Beijing-Tianjin-Hebei Iron and Steel Industry Technology Innovation Alliance for Energy Conservation and Emission Reduction

The alliance integrates 107 large-scale iron and steel enterprises, universities, scientific research institutes and financial institutions in Beijing, Tianjin and Hebei. USTB is the first president of the alliance. The alliance strives to promote the Beijing-Tianjin-Hebei Iron and Steel Industry Science and Technology Demonstration Zone for Energy Conservation, Emission Reduction and Transformation and Upgrading.

Steel-bonded Structure

USTB takes the lead in establishing a steel cooperation organization with 35 major domestic iron and steel enterprises such as Baowu Iron and Steel Shougang Group. The 9th Forum on the Development of New Technologies in Iron and Steel Metallurgy was held, which set up a service platform for the exchange of information on advanced iron and steel metallurgical technology.

Science and Technology Information Alliance of Capital Colleges and Universities (Network)

The Network was established jointly by the science and technology management departments of universities in Beijing. There are 34 member units. Since 2004, USTB has been a permanent director unit of the Alliance. The information network gathers more than 20,000 high-tech projects, more than 8,000 expert information and more than 200 scientific research bases. It covers almost all sectors of the national economy and organizes more than 80 activities each year.

Research and Development Center for Schools and Enterprises

USTB has established 91 R&D centers/platforms with partners including Tata Iron and Steel Company, Hegang Group, Shougang General Company, Angang Group Company, Jianlong Group, Delong Group, Xinxing International China Group, China Aluminum Industry and other top 500 enterprises around the world, as well as with the governments of Wu'an City, Wuxi City, Foshan City, Wenzhou City, Longyan City and Zhengzhou City.

Global Network

USTB has been pursuing global outreach and building deep alliances, following innovative ideas for international, Hong Kong, Macao and Taiwan exchanges and cooperation, and developing an all-round, multi-level, wide network that opens to the world and promotes exchanges among students and teachers, so as to make USTB a strong international university.

A Comprehensive Global Network

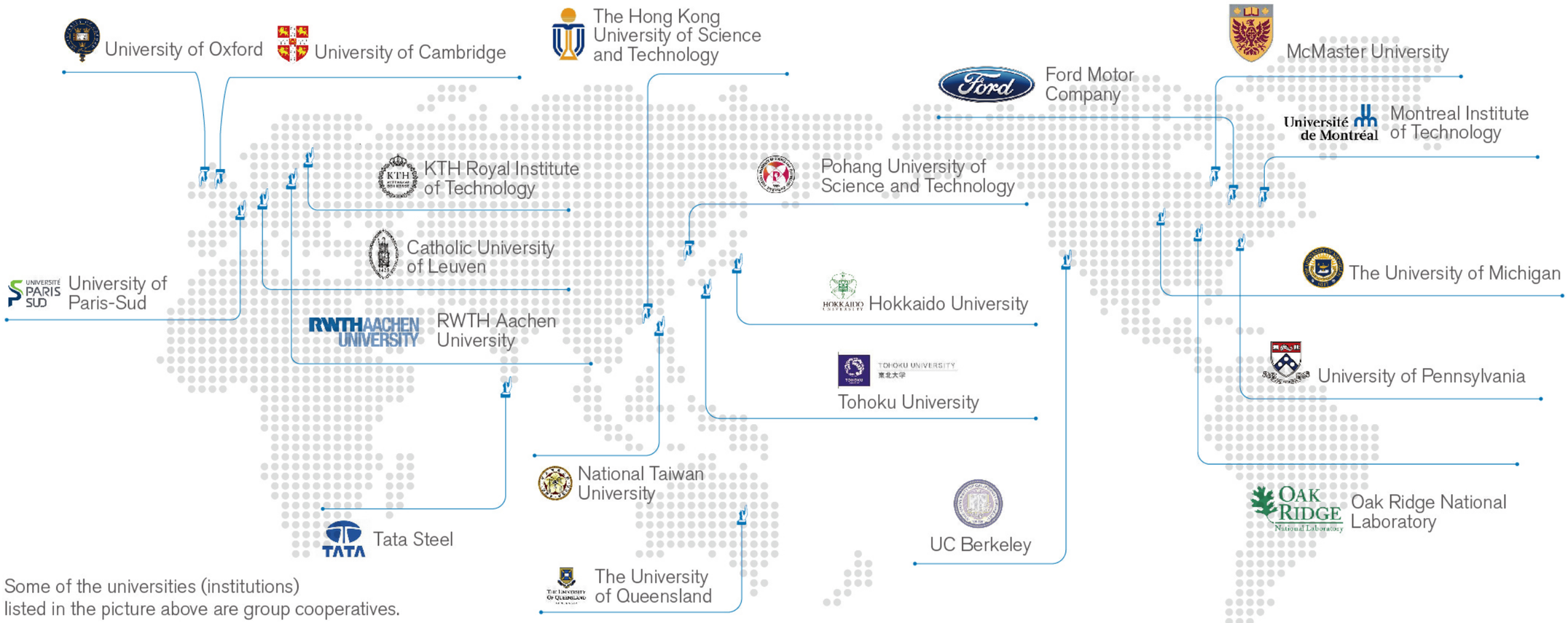
USTB has developed an international cooperative network with competitive advantages through the development of a comprehensive collaborative quality-driven framework. In 2019 USTB organized and hosted the “40th Anniversary of China-Germany High-Level Intercollegiate Cooperation and Academic Seminar of RWTH Aachen University and the University of Science and Technology Beijing”, and the “16th Bilateral Seminar with Hokkaido University in Japan”, so as to facilitate the expansion of pragmatic communication for talent training and scientific research cooperation.

Newly-signed Cooperative Agreements (Universities) in 2019

2019
Number of Visiting Experts and Scholars **1100**

International Conferences Held **19**
Number of Attendees **3000**

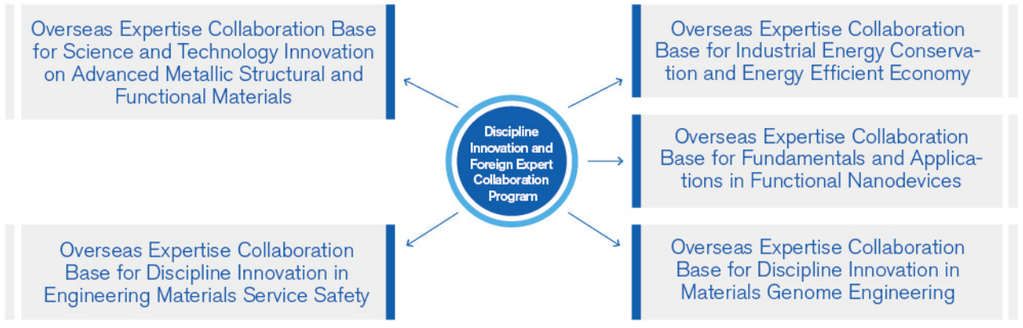
- National University of Singapore
- Ludwig-Maximilians-Universität München
- I-Shou University
- Illinois Institute of Technology
- The University of North Carolina Pembroke
- National Technical University of Ukraine



Some of the universities (institutions) listed in the picture above are group cooperatives.

Discipline Innovation and Foreign Expert Collaboration Program

USTB concentrates superior resources in jointly-working with foreign experts, and has built five Overseas Expertise Collaboration Bases (“111 Bases”) as well as several national, provincial and ministerial-level intelligence projects for a diversified and sustainable system for collaborating with foreign experts.



International Collaboration to Support the “Belt & Road” Initiative

USTB adheres to the idea of “specialization, quality, and internationalization” , to deepen reform and embrace the potential of cooperation, opening USTB up to promote further exchanges. Our first-class disciplines including the History of Science & Technology, Metallurgy, Materials, and Mining, are the foundation of USTB’ s strategic advantages and build the basis for a strong educational network, efficient utilization of resources, talent training, scientific research, and people-to-people exchanges with Thailand, Singapore, Indonesia and other countries, so as to help in the development of the “Belt & Road” Initiative.

Confucius Institute of Creative Industry Technology

The Confucius Institute of Creative Industry Technology of USTB - De Montfort University has always adhered to the development concept of "concentrating on advantages, digging in depth, creating innovation and expanding influence", and has actively carried out various activities such as Chinese language lessons, cultural and academic exchanges.

1 Affiliated Confucius Classroom

23 Teaching Sites

2180 Students

482 DMU Students Taking For-credit and Elective Courses

Alumni Community

69 years has passed since its foundation, and USTB has trained more than 200,000 alumni. Most of them have become pillars of the Chinese politics, economy, science and technology, and education, especially in the metallurgical and materials industries. USTB is known as the "cradle of iron and steel engineers". The USTB Alumni Association was established in April 1987. At present, there are 61 Alumni Clubs (50 Local Alumni Associations, 6 Major Alumni Associations, 3 Community Alumni Associations and 2 Interest Alumni Associations) throughout the country, including the Hong Kong Special Administrative Region, as well as North America, Europe, Vietnam and other places.

Distribution of USTB Alumni Branches

Domestic distribution

1 Shanghai
2 Tianjin
3 Chongqing
4 Shijiazhuang
5 Langfang
6 Qinhuangdao
7 Handan
8 Xuanhua
9 Shanxi
10 Baotou
11 Hohhot
12 Harbin
13 Jilin
14 Dalian
15 Shandong
16 Qingdao
17 Zhengzhou
18 Luoyang
19 Kaifeng
20 Anyang
21 Wuyang
22 Shaanxi
23 Qinghai
24 Xinjiang
25 Jiangsu
26 Suzhou
27 Xuzhou
28 Lianyungang
29 Yancheng
30 Anhui
31 Hangzhou
32 Ningbo
33 Wenzhou
34 Wuhan
35 Sichuan
36 Hunan
37 Jiangxi
38 Fujian
39 Guangxi
40 Liuzhou
41 Guangdong
42 Shenzhen
43 Hong Kong
44 Hainan
45 Guizhou

International Branches

USA (Detroit) Canada Europe Vietnam Chicago

Major Alumni Associations

Casting Professional Alumni Association
Chemistry Alumni Association
Alumni Association of Law Majors
Social Work Professional Alumni Association
Executive Management Alumni Association
MBA Alumni Association

Club Alumni Associations

Student Union Alumni Association
Robot Competition Team Alumni Association
Alumni Association of Postgraduate for Supporting Rural Education

Interest Alumni Association

Alumni Association of Golf Teams
Youth Entrepreneur Alumni Club