



Admission Book 2021

Office of International Students Beijing Institute of Technology









Admission Book 2021

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Admission Section

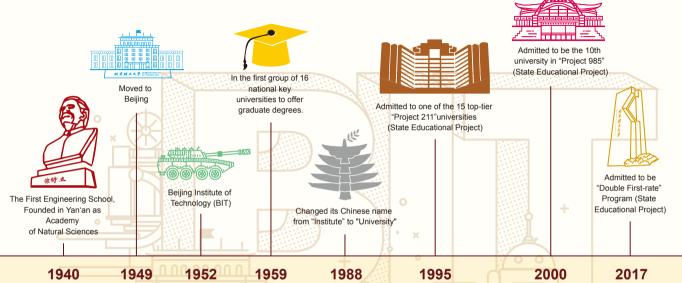
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Chinese Language Programs Phone: 86-10-68912161 Email: studychinese@bit.edu.cn

Exchange Programs
Phone: 86-10-68918541 Email: exchange@bit.edu.cn

BIT History



1940: The First Engineering School, Founded in Yan'an as Academy of Natural Sciences

1949: Moved to Beijing

1952: Beijing Institute of Technology (BIT)

1959: In the first group of 16 national key universities to offer graduate degrees.

1988: Changed its Chinese name from "Institute" to "University"

1995: Admitted to one of the 15 top-tier "Project 211" universities (State Educational Project)

2000: Admitted to be the 10th university in "Project 985" (State Educational Project)

2017: Admitted to be "Double First-rate" Program (State Educational Project)

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Beijing Institute of Technology 80th Anniversary 1940-2020



Welcome to Beijing Institute of Technology

北京理工大

Beijing Institute of Technology (BIT) was founded in 1940. It has been one of the key universities in China since the founding of New China and the first batch of universities which has entered the national "211 Project", "985 Project" and the "Top A World-class University".

BIT committed to cultivating high-level global leaders with international vision, competition and cooperation ability in global political economy, culture education and science and technology. Possessed with a scientific and comprehensive education and management system, Beijing Institute of Technology is now regarded as one of the best destinations for international students studying in China and it is widely acknowledged for its high-quality intakes, successful graduates, vast job opportunities for graduated students, full scholarship programs, efficient daily management, adequate student life support as well as colorful student activities.

Students & Faculty Numbers

Students	28,000+	
Undergraduates	14,700+	
Masters	8,300+	
PhD Candidates	4,200+	
International Students	2,500+	
Employees	3,400+	

Schools

- 1. School of Aerospace Engineering
- 2. School of Mechatronical Engineering
- 3. School of Mechanical Engineering
- 4. School of Optics and Photonics
- 5. School of Information and Electronics
- 6. School of Automation

- 7. School of Computer Science and Technology
- 8. School of Material Science and Engineering
- 9. School of Chemistry and Chemical Engineering
- 10. School of Life Science
- 11.School of Mathematics and Statistics
- 12. School of Physics

- 13.School of Management and Economics
- 14. School of Humanities and Social Science
- 15. School of Law
- 16.School of Foreign Languages
- 17. School of Design and Arts

Undergraduate Programs in Chinese



招生名目	覆盖学院	专业方向
航空航天类	宇航学院、机电学院	航空航天工程、机械电子工程
车辆类	机械与车辆学院	机械工程、工业工程、车辆工程、能源与动力工程、智能制造工程
信息科学技术类	光电学院、信息与电子学院 自动化学院、计算机学院	光电信息科学与工程、测控技术与仪器、电子信息工程、电子科学与技术、通信工程、 自动化、电气工程及其自动化、计算机科学与技术、物联网工程、软件工程、人工智能、 数据科学与大数据技术
理学与材料类	材料学院、化学与化工学院 生命学院、数学与统计学院 物理学院	材料科学与工程、材料化学、化学、应用化学、化学工程与工艺、能源化学工程、 生物医学工程、生物技术、数学与应用数学、信息与计算科学、统计学、应用物理学
经济管理类	管理与经济学院	信息管理与信息系统、国际经济与贸易、工商管理、市场营销、会计学
社会科学类	人文与社会科学学院、法学院 外国语学院	经济学、社会工作、法学、英语、日语、德语、西班牙语
设计学类	设计与艺术学院	工业设计、产品设计、视觉传达设计、环境设计



Undergraduate Programs in English



Aeronautical and Astronautical Engineering

Main Courses: Introduction to Flight Vehicle System, Fundamentals of Fluid Mechanics, Structural Analysis, Optimization Design Methods, Spacecraft Dynamics, Control System Analysis & Design, System Dynamics & Vibration, Flight Vehicle Guidance and Control, Introduction to Combustion Theory, Aerodynamics, Flight Vehicle Design, Autonomous Control of UAV and Jet Propulsion.

Computer Science and Technology/ Data Science and Big Data Technology

Main Courses: Essential courses, Discrete mathematics, Data structures and algorithms, Object-oriented programming computation theory and algorithms, Numerical analysis, Database principles and design, Principles of computer organization, Assembly language programming, Operating systems, Compiler principles and design, Fundamentals of software engineering, Computer architecture, Practice of operating system principles, Computer networks, Interface technique of microcomputer, Software engineering comprehensive practice, Practice of networking technology.

Mechanical Engineering

Main Courses: Computer courses, Engineering mechanics, Fundamentals of mechanical design course in group, Fundamentals of engineering materials, Electrical and electronic technology, Testing technology, Microcomputer principle and interface technology, CNC technology, Fluid mechanics, Control engineering, Mechanical manufacturing engineering, CAD/CAM principle, Mechanical manufacturing equipment design, etc.

Electronic Science and Technology

Main Courses: Fundamentals of circuits analysis, Fundamentals of analog circuits, Signals and systems, Fundamentals of control theory, Digital signal process, Random signal analysis, Electromagnetic field theory, information theory, Computer theory and application, Communication circuits and system, Digital communication theory, Theoretical physics, Semiconductor physics, Hardware description language, Microelectronic process, Microelectronic device, Analog integrated circuits analysis and design, Digital integrated circuits CAD, MEMS.

Automation

Main Courses: Fundamental of electric circuits, Electronics, Computer programming language, Principles of microcomputer and interface, Electrical engineering technique, Electrical measurement technology, Power electronics, Electrical machinery and drives, Fundamentals of control theory, Control system of electrical machinery, Motion control system, Energy and power conversion technique, Intelligent building, Factory electricity supply, Electrical engineering network and communication technology.

Mechatronics Engineering

Main Courses: Fundamentals of Mechanical Engineering, Fundamentals of Mechanical Design, Fundamentals of Electric Circuits, Fundamentals of Digital Electronics, Fundamentals of Analog Electronics, Fundamentals of Mechatronic Control Engineering, Computer Control and Servo System, Introduction to Robotics.

International Economics and Trade

Main Courses: Calculus, Econometrics, Financial Management, Fundamentals of Accounting, Human Resource Management, International International Finance, International Marketing, Macroeconomics, Management Information Systems, Microcomputer Database Applications, Microeconomics, Monetary Banking, Operation Research, Principle of Management

Master Programs in Chinese 硕士研究生招生专业

中/英文授课	中文授课		
航空宇航科学与技术	力学	统计学	
机械工程	兵器科学与技术	物理学	
电子科学与技术	安全科学与工程	应用经济学	
信息与通信工程	动力工程及工程热物理	管理科学与工程	
控制科学与工程	光学工程	工商管理	
计算机科学与技术	仪器科学与技术	理论经济学	
化学工程与技术	材料科学与工程	汉语国际教育	
化学	生物学	外国语言文学	
法学	生物医学工程	设计学	
MBA	数学	教育学	

Master Programs in English

Aeronautics & Space Science and Technology

Advanced Computational Fluid Dynamic; Continuum Mechanics; Principles of Composite Material Mechanics; Structural Dynamics; Fundamentals of Aerospace Propulsion; Orbital Mechanics Guidance and Control Theory for Flight Vehicle; Automated Rendezvous and Docking of Spacecraft; Reactive Flow in Jet Propulsion

Chemistry

Inorganic Synthesis and Preparative Chemistry; Advanced Experiment of Organic Chemistry; Materials Science; Advanced Topics in Organic Chemistry; X-Ray Crystallography; Coordination Chemistry; Spectrometric Identification of Organic Compounds; Nano-science and technology

Law

Public International Law; International Economic Law; Private International Law; WTO Law; International Intellectual Property Protection; Chinese Trademark Law and Unfair Competition; Chinese Patent Law; Chinese Copyright Law

Chemical Engineering and Technology

Advanced Organic Chemistry; Metal-organic Chemistry; Advanced Experiment of Organic Chemistry; Modern Electrochemistry; Principles of Catalysis Spectrometric Identification of Organic Compounds; Advanced Topics in Organic Chemistry; Advanced Chemical Technology

Computer Science and Technology

Advanced Operating Systems; Computer Vision; Content Management and Technology of Digital Library; Wireless Networks and Mobile Computing; Web Mining Web; Network Information Security; Machine Learning and Knowledge Discovery; Algorithms and Complexity; Theory of Computation

Control Science and Engineering

Linear Algebra with Applications in Automatic Control; Linear Systems Theory; Optimum and Robust Control; Stochastic Process Theory and Applications; System Identification and Adaptive Control; Modern Sensor and Detection Technology; Systems Engineering Principle and Applications;

Mechanical Engineering

Fundamentals of Modem Control Theory; Modem Measurement Technology; Elastic-Plastic Mechanics; Mechanical Vibration; Advanced Engineering Thermodynamics and Heat Transfer; Principle of Finite Element Method; Principles of CAD/CAM/CAE; Structural Design with Optimization Method

MBA

International Business; International Finance; International Business Law; Operating Management; Business Ethics; Management Information System; Marketing Management; Accounting

Information and Communication Engineering

Statistical Signal Processing; Information Theory; Advanced Digital Communications; Fundamentals of Communication Networks; Signal Detection and Estimation Theory; Microwave and Millimeter Wave Integrated Circuits Design and Technology; Introduction to Radar Systems; Mobile Communications

Electronics Science and Technology

Statistical Signal Processing; Information Theory; Advanced Digital Communications; Fundamentals of Communication Networks; Signal Detection and Estimation Theory; Microwave and Millimeter Wave Integrated Circuits Design and Technology; Introduction to Radar Systems; Mobile Communications

Ph.D. Programs in Chinese & English

- Aeronautics&Space Science and Technology
- 🔅 Mechanics
- Armament Science and Technology
- Safety Science and Engineering
- 🄅 Mechanical Engineering
- Power Engineering and Engineering Thermophysics
- 🔅 Optical Engineering
- Instrument Science and Technology
- Electronics Science and Technology
- Information and Communication Engineering
- Control Science and Engineering
- Computer Science and Technology
- Material Science and Engineering

- Chemical Engineering and Technology
- 🔅 Chemistry
- 🔅 Biomedical Engineering
- Mathematics
- 🔅 Statistics
- 🔅 Physics
- Management Science and Engineering

China

- Applied Economics
- 🔅 Business Administration
- 🌻 Law
- 🔅 Education

Chinese Language Programs

Long-term Chinese Programs

3 levels 1. Intelligent Vehicles and Electric Vehicles 2. Big Data Analysis 3. The Overview of 5G System - Key Technologies and Applications 4. Chinese Language and Culture 5. Small group study Free HSK training Various Chinese culture experience Field trips: the Great Wall, the Forbidden City, Summer Palace, ect 1. Intelligent Vehicles and Electric Vehicles 2. Big Data Analysis 3. The Overview of 5G System - Key Technologies and Applications 4. Chinese Language and Culture At least 60 teaching hours in total with 4 credits Lab Practice Culture experience: Calligraphy, Ink painting, Kung-Fu, etc Tours: the Forbidden City, the Great Wall, Summer Palace, etc. Chinese Language partner

Pre-University Programs

- Reach the level of degree courses admission through 1 or 2 semesters of Chinese learning.
- Curriculum: Chinese Language, Science & Engineering courses in Chinese

BIT Summer/Winter online programs

BIT International Summer Programs

- Course 1: Multicultural Curriculum Practice
- 🄅 Course 2: HSK Intensive Training

Apr 18 18 19 19

* Official electronic transcript with credits and certificate offered

How to apply?



Qualifications, Application Materials and Contacts

	Underg	raduate Programs		Graduate Prog	jrams	Chinese Language Programs
Qualifications	2. Efficie skills o langua	school graduate nt Chinese language or efficient English age skills age 18 through 25	applicant sh interest 2. Efficient Ch 3. Recomment Note: If you a please a	ould have a master Degree in the inese language skills or efficient Er ding by two professors re applying for admission under Ch oply online at CSC Online Applicat e known that the Agency Number	ninese Government Scholarship, ion System	Above 18 High school graduate
 Application form (Please register at http://apply.isc.bit.edu.cn). CSC applicants please check Page 9 Photocopy of Passport (including the valid visa page if you are already in China) Statement of Purpose & Study Plan & CV Notarized highest degree certificate (Chinese or English version); Notarized transcripts of the highest degree (Chinese or English version); HSK 5 (above 180) for Chinese taught programs/English Language test result (TOEFL 80 or IELTS 5.5) for English Taught Programs Two Recommendation letters and BIT advisor recommendation form (only for Master & PhD applicants) Physical Examination Note: 1. Documents in language other than Chinese or English need to be translated into Chinese or English. Native English speakers or graduates from high school where English is an official teaching language are exempt from TOEFL or IELTS. CSC applicants please register at http://laihua.csc.edu.cn .Agency Number of Beijing Institute of Technology is 10007. 						
De	eadline	June 15		June 15	Spring semester: December 15 / Aut	umn semester: June 15
С	ontact	Tel: 86-10-68918272 E-mail: undergraduat	-	Tel: 86-10-68910992 E-mail: master_phd@bit.edu.cn	Tel: 86-10-68912161 E-mail: studychinese@bit.edu.cn	

Please log on http://apply.isc.bit.edu.cn

If you are applying for admission under Chinese Government Scholarship, please apply online at CSC Online Application System. Please be known that the Agency Number of Beijing Institute of Technology is 10007.

What Scholarship do we have?

1. Chinese Government Scholarship (CSC)

- (1) Chinese University Program
- (2) Silk Road Program
- (3) Sino-Africa Program
- (4) Sino-Russian Program

What does the FULL scholarship cover?

Tuition, accommodation, Comprehensive Medical Insurance Stipend: Undergraduate students: CNY 2,500 per month Master' s students / general scholars: CNY 3,000 per month Doctoral students / senior scholars: CNY 3,500 per month

Who can apply?

- ① Applicants are non-Chinese citizens and in good health
- 2 Applicants are not applying for non-degree programs
- ③ Applicants for Master programs should be under the age of35 and hold a bachelor's degree
- ④ Applicants for PhD programs should be under the age of 40 and hold a master' s degree

How to Apply?

 Register at http://laihua.csc.edu.cn and upload required documents. (BIT' s Agency No. is 10007; Type: B). ② Register at http://apply.isc.bit.edu.cn and upload required documents.

Application deadline: April 15th / every year Contact: master_phd@bit.edu.cn

(5) Sino-US Program

What does the scholarship cover?

Tuition and Accommodation

Who can apply?

① US citizens in good health

- 2 More than 6 months study period
- ③ The student's home university must recognize the credits that the students earned in the Chinese universities

How to Apply?

Register at http://apply.isc.bit.edu.cn

Application deadline:

fall semester: Mar.15th- June 15th of the same year spring semester: Oct.15th - Dec 15th of the previous year **Contact:** Ms. ZONG Xin Email: exchange@bit.edu.cn **Note:** US Students who apply for degree study, please see CSC application procedure and Stipend.





(6) Central Europe Program

What does the scholarship cover?

Tuition and Accommodation

Who can apply?

- Countries: Albania, Austria, Bulgaria, Bosnia and Herzegovina, Croatia, Czech, Estonia, Germany, Hungary, Latvia, Liechtenstein, Lithuania, Macedonia, Montenegro, Poland, Romania, Serbia, Slovakia, Slovenia, Switzerland
 More than 6 months study period
- ③ The student's home university must recognize the credits that the students earned in the Chinese universities

How to Apply?

Register at http://apply.isc.bit.edu.cn

Application deadline:

fall semester: Mar.15th- June 15th of the same year spring semester: Oct.15th - Dec 15th of the previous year **Contact:** Ms. ZONG Xin Email: exchange@bit.edu.cn

2. Beijing Municipal Government Scholarship/Belt & Road Scholarship/ BIT Scholarship

What does the scholarship cover?

Tuition (Full scholarship, Half scholarship, 1/4 scholarship) for one year

Who can apply?

- 1 Non-Chinese Citizens in good health
- ② Undergraduate program students: New students or enrolled students according to their qualified previous year' s academic records.
- 3 Age between 18-25

How to Apply?

Register at http://apply.isc.bit.edu.cn

Application time:

For new students: Jan 1st to Jun 15th

For students in year 2 to year 4: June



3. International Chinese Language Teachers (Confucius Institute) Scholarship

For Master Students

What does the scholarship cover?

Tuition, Accommodation, Living Expenses and Medical Insurance

Living allowance: CNY3,000 per month

Who can apply?

- 1 Non-Chinese Citizens in good health
- ② Age from 16 to 35(Applicant is currently working in a Chinese Language teaching position shall not exceed the age limit of 45)
- ③ Bachelor' degree
- ④ Master of Teaching Chinese to Speakers Other Languages(MTCSOL)(2-year):

Minimum score of 210 in HSK test (Level 5), minimum score of 60 in HSKK (Intermediate Level)

⑤ Committed to the Chinese language education and related work

Note:

*MTCSOL-applicants with working contract after graduation will be given the priority

How to Apply?

Please visit at http://cis.chinese.cn/ and choose "Beijing Institute of Technology" in the application form

Application deadline

May 20th every year

For Language Students

What does the scholarship cover?

Tuition, Accommodation, living expenses and medical insurance Living allowance: CNY 2,500 per month

Who can apply?

1 Non-Chinese Citizens in good health

- ② Age from 16 to 35 (Applicant is currently working in a Chinese language teaching position shall not exceed the age limit of 45)
- ③ For One-Academic-Year Study Students(11 months): a minimum score of 270 in HSK Test (Level 3), and 60 in HSKK test For One-Semester Study Students (5 months): a minimum score of 210 in HSK Test (Level 3), and a minimum score of 60 in HSKK test
- ④ For One-Semester Study Students, applicant should have no prior experience of studying in China
- (5) "Chinese Bridge" Winners who have been awarded the "Confucius Institute Scholarship for Master' s degree Certificate" could apply for admission by offering certificate



⑥ Committed to the Chinese language education and related work

How to Apply?

Please visit at http://cis.chinese.cn/ and choose "Beijing Institute of Technology" in the application form

Application deadline

September intake: May 20th every year March intake: November 20th every year

For Four-Week Study Program

What does the scholarship cover?

This program provides a scholarship for 4-week study which focuses on Chinese language study as well as Chinese culture, covering tuition fee, accommodation fee, and comprehensive medical insurance expenses

Who can apply?

① Application is open to applicant who owns a non-Chinese

citizenship, aged between 18 and 35, in good health condition. Applicants holding the X1 or X2 visa are not eligible

- ② Application is open to students from Confucius Institutes (Classrooms). Applicants must possess HSK result, and must apply in group through their Confucius Institute. A group can only have between 10--15 applicants
- ③ Applicant should have no prior experience of studying in China
- ④ Committed to the Chinese language education and related work

How to apply?

Please visit at http://cis.chinese.cn, fill out the International Chinese Language Teachers (Confucius Institute) Scholarship Application Form online, and upload the scanned copies of the requested documents. If the documents are not in Chinese or English version, notarization documents should be provided. Chinese Government Scholarship-Bilateral Program
 Chinese Government Scholarship-AUN Program
 Chinese Government Scholarship-Great Wall Program
 Chinese Government Scholarship-EU Program



Tuition

Undergraduate Programs	Master Programs	Doctoral Programs	Chinese Language Programs	Short-term Programs	
Programs in Chinese: CNY 23,000 /year	Programs in Chinese: CNY 32,000 /year	CNY44,400/year	Language & Culture: CNY 10,000 / semester	USD 40/day (Including tuition, accommodation, insurance, field trips to the Forbidden City, Summer Palace, The Great Wall, etc.)	
Programs in English: CNY 30,000 /year	Programs in English: CNY 36,000 /year MBA: 49,000/year		Pre-university: CNY 15,000/semester		
Note: Application fee : degree programs CNY600 non-degree programs: CNY 500 Insurance: CNY800/year; CNY400/half year					

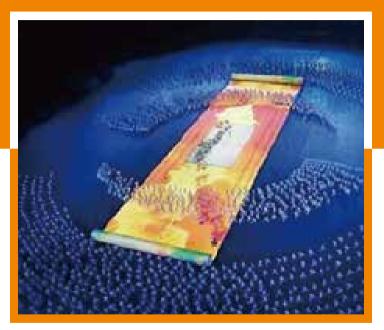


Accommodation Information

Location	Room types	Facilities	Price
Building No.14 Zhong Guan Cun Campus	Double bedroom	Air-conditioner, desk, wardrobe, internet access, bathroom (24-hour hot water), public kitchens, public laundry	CNY1350 /person/ month
Building No.14 Zhong Guan Cun Campus	4 Loft beds with desk	Air-conditioner, desk, wardrobe, internet access, bathroom (24-hour hot water), public kitchens on each floor, public laundry	CNY900 / person / month
Su Zhou Qiao Dormitory Zhong Guan Cun Campus	Triple Bedroom	Air-conditioner, desk, wardrobe, internet access, refrigerator, public bathrooms (24-hour hot water), public kitchens on the top floor, public laundry	CNY1350 /person / month
Building No. 16 Zhong Guan Cun Campus	Four-bed-room with two bunk beds	Air-conditioner, desk, wardrobe, internet access, Bathroom (24-hour hot water), Public laundry	CNY 900 /person/ month
Liang Xiang Campus	2 Loft beds with desk	Desk, wardrobe, internet access, refrigerator, bathroom, kitchen ventilator	CNY 900 /person / month

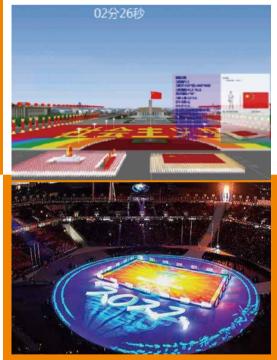


Scientific Research



Digital Performance

Digital Media



Simulation rehearsal Technology

Spectacular "Beijing 8-Minute Show " at Closing Ceremony of Pyongchang Winter Olympics Technologically Supported by BIT

Scientific Research



HUITONG Robot (Humanoid robots)

Distinguish high-speed objects, make dynamic balance, and play table tennis with each other. for the Olympic Games in Beijing 2008 and World Expo in Shanghai in 2010 and will serve for Winter Olympic Games in 2022.

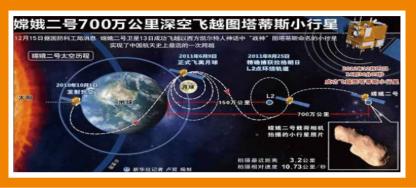


Bionic Prostheses

Intelligent Robot

Provide trajectory design guarantee of deep space exploration

BP-1B Satellite: 13:00 pm, July 25 2019 — BP-1B, the first satellite developed by BIT was successfully launched at Jiuquan Satellite Launch Center in China.





Tiangong-1 target spacecraft

Shenzhou VIII unmanned spacecraft

Aerospace and Deep Space Exploration

Scientific Research

The first Autonomous electric bus on market in the world



Hybrid Electric Vehicles / for the Olympic Games in Beijing 2008 and World Expo in Shanghai / in 2010 and will serve for Winter Olympic Games in 2022.

Mechanical Engineering

Formula Student Autonomous China

Scientific Research



Military information system and confrontation

National Defense Technology

Long-distance multi-tube Guided Rocket Bomb



High-Capacity Projectile

BEIJING INSTITUTE OF TECHNOLOGY



2019 "One belt, one road" Beijing International Fishing competition. 2019 The 6th Martial Arts Competition for International Students in Beijing. 2019 Badminton competition for foreign students in Beijing. 2019 The 8th Beijing Foreign Students "Chinese star" competition. 2019"China in the eyes of foreign friends" Photography Competition.

The sixth place. The third award. The first prize. The second prize.

019 "Chinese Bridge" Conference for global foreigners-Dubbing Competition.	
019 The Third Writing Competition for foreign students.	
019 Essay Competition for International Students held by Ministry of Education in China.	
020 Chinese Language Day Creative Video Competition.	
020 Essay Competition for International Students held by Ministry of Education in China.	

The silver awards. The second place. The second place. The distinguished origination awards. The second place.





Office of International Students Beijing Institute of Technology

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